TABLE OF CONTENTS

Graduate 6
Contact Directory 6
About Marshall University 7
Graduate Studies 9
Accreditations 12
Admissions 13
Financial Information: Tuition, Fees, and Financial Assistance 20
Student Financial Assistance 26
University Policies and Procedures 30
Graduate Student Resources 38
Academic Information and Resources 43
Academic Requirements and Regulations 47
Degree Programs by College 65
Graduate Programs A-Z 67
College of Arts and Media 69
Music, M.A. 75
Applied Music Performance 77
Jazz Studies 77
Music Composition, Emphasis 77
Music Education 78
Music History and Literature 78
Lewis College of Business 79
Accountancy, M.S. 91
Business Analysis and Reporting, Emphasis 92
Information Systems and Controls, Emphasis 92
Tax Compliance and Planning, Emphasis 92
Business Administration, D.B.A. 92
Accounting, Area of Emphasis in D.B.A. 94
Health Care Management, Area of Emphasis in D.B.A. 94
Management and Entrepreneurship, Area of Emphasis in D.B.A. 94
Business Administration, M.B.A. 94
Data Analytics in Health Care, Graduate Certificate 96
Health Care Administration, M.S. 96
Health Informatics, M.S. 98
Human Resource Management, M.S. 99
Information Systems, Accelerated Graduate Degree 100
Information Systems, M.S. 100
Lab Management, Graduate Certificate 101
Nurse Anesthesia Practice, D.N.A.P. 101
Sport Administration, Accelerated Graduate Degree 101
Sport Administration, M.S. 102
Technology Management, Graduate Certificate 103
College of Education and Professional Development 104
Adult and Continuing Education, M.S. 133
Adult Education and Evaluation 135
Career and Technical Center Teaching 135
Applied Behavior Analysis, M.A. 135
Counseling, Accelerated Graduate Degree 136
Counseling, M.A. 136
Clinical Mental Health Counseling 139
School Counseling, Emphasis 139
Counseling, R.B.A. Accelerated Graduate Degree 140
Curriculum and Instruction, Ed.D. 141
Early Childhood Education, Graduate Certificate 143
Education, M.A. 144
Early Childhood Education, Emphasis in M.A. 146
Elementary Mathematics Specialist, Emphasis in M.A. 147
Individualized Plan of Study, Emphasis in M.A. 147
Instructional Processes and Strategies, Emphasis in M.A. 147
Instructional Technology and Learning, Emphasis in M.A. 147
Mathematics through Algebra I, Emphasis in M.A. 147
School Library Media Specialist, Emphasis in M.A. 147
Teaching English as a Second Language, Non-Licensure, Emphasis in M.A. 147
Educational Leadership, Post Masters Certificate 148
Educational Specialist, Ed.S. 148
Curriculum and Instruction, Emphasis in Ed.S. 148
Elementary Mathematics Specialist, Graduate Certificate 149
Instructional Technology and Learning, Graduate Certificate 149
Leadership Studies, Ed.D. 149
Leadership Studies, M.A. 151
Educational Leadership, Emphasis 152
Leadership Specialist, Emphasis 152
Literacy Education, Graduate Certificate 153
Literacy Education, M.A. 153

Mathematics through Algebra I, Graduate Certificate 154
Post-Baccalaureate Teacher Certificate 154
School Library Media Specialist, Graduate Certificate 155
School Psychology, Ed.S. 156
School Superintendent, Licensure 157
Social Service and Attendance, Certificate/Licensure ... 157
Special Education, M.A. 157
Deaf and Hard of Hearing 158
Multi-Categorical Special Ed 159
Preschool Special Education 159
Visually Impaired 159
Supervisor of Instruction, Licensure 159
Teaching English as a Second Language (Non-Licensure), Graduate Certificate 160
Teaching, M.A.T. 160
Violence, Loss and Trauma Counseling, Graduate Certificate 161
College of Engineering and Computer Sciences 162
Civil and Environmental Engineering, Accelerated Graduate Degree 174
Civil and Environmental Engineering, M.S.E. 174
Computer Science, Accelerated Graduate Degree 176
Computer Science, M.S. 177
Cybersecurity, Accelerated Graduate Degree 178
Cybersecurity, M.S. 179
Data Science, Accelerated Graduate Degree 180
Data Science, M.S. 181
Electrical and Computer Engineering M.S.E.E. 182
Electrical and Computer Engineering, Accelerated Graduate Degree 184
Engineering Management, B.S.C.E. Accelerated Graduate Degree 184
Engineering Management, B.S.E.E. Accelerated Graduate Degree 185
Engineering Management, M.S.E. 186
Engineering, Ph.D. 187
Environmental Safety and Health, Accelerated Graduate Degree 189
Environmental Science, Minor 190
Environmental, Safety and Health, M.S. 190
Mechanical Engineering, M.S.M.E. 191
Safety, M.S. 193
Mine Safety Emphasis 193
Safety, Minor 194
College of Health Professions 194
Athletic Training (Professional), M.S. 211
Biomechanics, M.S. 213
Communication Disorders, M.S. 213
Dietetics, M.S. 217
Exercise Physiology, M.S. 218
Family Nurse Practitioner Program, Post Master's Certificate 219
Gerontology Social Work, Graduate Certificate 219
Nursing Practice, D.N.P. 220
Nursing, M.S.N. 222
Family Nurse Practitioner 225
Nurse Midwifery 226
Nursing Administration 227
Nursing Education 227
Psychiatric Mental Health Nurse Practitioner 227
Physical Therapy, D.P.T. 228
Physical Therapy, Dual Degree: D.P.T. and M.B.A. 234
Public Health, Accelerated Graduate Degree 235
Public Health, M.P.H. 236
School Social Work, Graduate Certificate 236
Social Work, Accelerated Graduate Degree 237
Social Work, M.S.W. 238
Advanced Standing Behavioral Health Administration, Emphasis 242
Behavioral Health Practice, Emphasis 243
Sports Science, M.S. 244
Strength and Conditioning, M.S. 245
College of Liberal Arts 246
Accessibility Awareness, Graduate Certificate 274
Aging in Appalachia, Graduate Certificate 274
Anthropology, Minor 275
Appalachian Studies, Graduate Certificate 275
Behavioral Statistics, Graduate Certificate 275
Communication Studies, M.A. 276
English, M.A. 276
Geography M.A., Accelerated Graduate Degree 277
Geography M.S., Accelerated Graduate Degree 278
Geography, M.A. 279
Geography, M.S. 280
Geography, Minor 281

Geospatial Information Science, Graduate Certificate 282
History, M.A. 283
History, Minor 284
Human Geography, Graduate Certificate 284
Humanities, M.A. 284
Latin, Graduate Certificate 285
Meteorology, Graduate Certificate 286
Nonprofit Management, Graduate Certificate 286
Philosophy, Minor 286
Psychology (Clinical), Post-Master's Certificate 286
Psychology (Clinical), Psy.D. 287
Psychology, Accelerated Graduate Degree 292
Psychology, M.A. 293
Clinical Psychology 296
School Psychology 296
Psychology, Minor 296
Public Administration, Accelerated Graduate Degree 296
Public Administration, M.P.A. 297
Cybersecurity and Policy, Emphasis 298
Government Relations, Emphasis 298
Nonprofit Leadership, Emphasis 298
Planning and Economic Development, Emphasis 299
Public History, Graduate Certificate 299
Sociology, Accelerated Graduate Degree 299
Sociology, M.A. 300
Sociology, Minor 301
Women's Studies, Graduate Certificate 302
College of Science 302
Biological Sciences M.A., Accelerated Graduate Degree 316
Biological Sciences M.S., Accelerated Graduate Degree 316
Biological Sciences, M.A. 317
Biological Sciences, M.S. 318
Chemistry, M.S. 319
Criminal Justice, Accelerated Graduate Degree 320
Criminal Justice, M.S. 321
Criminal Justice, Minor 322
Digital Forensics, Graduate Certificate 322
Forensic Science, M.S. 323
Crime Scene Investigation, Emphasis 325
Digital Forensics, Emphasis 325
DNA Analysis, Emphasis 325
Forensic Chemistry, Emphasis 326
Geobiophysical Science, Minor 326
Mathematics, M.S. 326
Statistics, Emphasis 328
Mathematics, Minor 328
Natural Resources and the Environment, M.S. 328
Physical and Applied Sciences, M.S. 329
Physical and Applied Sciences, Geology Emphasis 330
Physics for Teachers, Emphasis 330
Physics, Accelerated Graduate Degree 331
Physics, M.S. 331
School of Library Science 332
Library Science, M.S. 333
School of Medicine 335
Biomedical Research, M.D./Ph.D. 342
Biomedical Research, M.S. 345
Biomedical Research, Ph.D. 346
Cardiovascular Disease 348
Cell Biology 348
Neurobiology and Addiction 348
Obesity and Related Diseases 348
Toxicology and Environmental Health Sciences 348
Clinical and Translational Science, M.S. 348
Clinical Informatics 349
Clinical Research 349
Clinical Trials 350
Medical Science, Graduate Certificate 350
Physician Assistant, M.M.S. 351
School of Pharmacy 353
Pharmaceutical Sciences, B.S. to Pharm.D. (3+4 Accelerated Program) 358
Pharmaceutical Sciences, M.A. (Non-Thesis Option) 359
Pharmaceutical Sciences, M.S. 360
Pharmacy, Dual Degree: Pharm.D. and M.B.A. 361
Pharmacy, Pharm.D. 361
Courses A-Z 365
Accountancy (ACC) 366
Adult & Continuing Education (ACE) 368

Anatomy & Cell Biology (ACB) 371
Anesthesia (ANS) 373
Anthropology (ANT) 373
Applied Behavior Analysis (ABA) 374
Applied Music (MUSA) 374
Art (ART) 375
Arts & Society-Humanities (A&S) 376
Biochemistry (BIC) 377
Biological Science (BSC) 377
Biomedical Research (BMR) 380
Biomedical Science (BMS) 381
Cardiovascular Services (CVS) 381
Chemistry (CHM) 381
Civil Engineering (CE) 383
Classics (CL) 383
Clinical Translational Science (CTS) 384
Communication Disorders (CD) 385
Communication Studies (CMM) 387
Computer & Info Security (CYBR) 388
Computer Science (CS) 389
Counseling (COUN) 391
Criminal Justice (CJ) 396
Cultural Studies-Humanities (CULS) 398
Curr & Inst (CI) 399
Curr & Inst - Educa Computing (CIEC) 402
Curr & Inst - Math Educa (CIME) 403
Curr & Inst - Deaf And Hard Of Hearing (CIDH) 404
Curr & Inst - Literacy Educa (CIRG) 404
Curr & Inst - Visually Impaired (CIVI) 406
Curr & Inst Science Educa (CISE) 407
Curr & Inst Second Lang (CISL) 408
Curr Inst Special Ed (CISP) 409
Cyber Forensics and Security (CFS) 411
Dermatology (DERM) 412
Dietetics (DTS) 412
Doctor-Business Administration (DBA) 413
Early Childhood Education (ECE) 414
Economics (ECN) 414
Educational Foundations (EDF) 415
Electrical Engineering (EE) 416
Emergency Medical Services (EMS) 418
Engineering & Science (ENGR) 418
Engineering Management (EM) 419
English (ENG) 420
Entrepreneurship (ENT) 423
Environmental Engineering (ENVE) 423
Environmental Science (ES) 424
Exercise Science and Sport (ESS) 426
Family Community Health (FCH) 428
Finance (FIN) 430
Forensic Science (FSC) 430
French (FRN) 433
Geography (GEO) 433
Geology (GLY) 435
Health Care Administration (HCA) 436
Health Education (HE) 437
Health Informatics (HIN) 437
Health Professions (HP) 438
Health Science (HS) 439
Historical Studies-Humanities (HIST) 441
History (HST) 441
Human Resource Management (HRM) 443
Humanities (HUMN) 444
Instruct Tech-Library Science (ITL) 445
Interdisciplinary Medicine (IDM) 446
Latin (LAT) 447
Leadership Studies (LS) 448
Legal Environment (LE) 452
Library Science (LSC) 452
Literary Studies-Humanities (LITS) 453
Management (MGT) 453
Management Information Systems (MIS) 455
Marketing (MKT) 456
Mathematics (MTH) 457
Mechanical Engineering (ME) 458
Medical Curriculum (MDC) 459
Medicine (MED) 461
Mgt Prac Nurse Anesthesia (MPNA) 462
Microbiology (MCB) 464
Mine Safety (MSF) 465
Music (MUS) 466
Music Ensembles (MUSE) 469
Music Program (MUSP) 470
Nat Resources & Environment (NRE) 470

Natural Res Rec Mgt (NRRM) 471
Neurology (NEU) 472
Nursing (NUR) 472
Obstetrics/Gynecology (OBG) 475
Ophthalmology (OPH) 476
Orthopaedics (ORT) 476
Pathology (PTH) 477
Pediatrics (PED) 477
Pharmaceutical Sciences (MSPS) 478
Pharmacology (PMC) 478
Pharmacy (PHAR) 479
Philosophy (PHL) 483
Physical Science (PS) 484
Physical Therapy (PT) 485
Physician Assistant 488
Physics (PHY) 490
Physiology (PHS) 491
Political Science (PSC) 492
Psychiatry (PSI) 492
Psychology (PSY) 493
Public Administration (PADM) 498
Public Health (PH) 499
Radiology (RAD) 501
Religious Studies (RST) 501
Safety Technology (SFT) 501
School Psychology (SPSY) 503
Social Studies (SOS) 504
Social Work (SWK) 504
Sociology (SOC) 506
Spanish (SPN) 508
Sport Tourism Hospitality Mgt (STHM) 510
Statistics (STA) 511
Surgery (SUR) 512
Technology and Engineering (TE) 513
Technology Management (TM) 513
Theatre (THE) 514
Faculty 515
University Calendar 515
Graduate A-Z Index 517
Index 522

GRADUATE



About This Catalog

The Marshall University Graduate Catalog fulfills two primary functions:

1. The rules and regulations, policies and procedures of the University, its divisions and its governing body, all of which apply to all students, are contained in this document. These rules apply during the publication period of the document and are subject to change during that year upon recommendation of the various divisions and approval of the president or governing body of the University.
2. The Catalog contains the specific requirements for all degrees and certificates awarded by the University. These are normally in effect for a period of ten consecutive years for undergraduate degrees and certificates and seven consecutive years for graduate degrees and certificates. Students are cautioned that programs leading to licensure may be altered by the outside licensing agency and are not subject to this provision.

Catalog of Record and Degree Requirements

The online version is the official Graduate Catalog of Marshall University. It is updated annually. The online catalog that is current for the semester or term during which you are admitted to your graduate degree program is the catalog that applies to you as your "catalog of record." To ensure that you are meeting the requirements that apply to you, please consult the online Graduate Catalog in effect for the semester or term you are admitted to your degree program.

When Marshall University or degree program requirements are changed after you begin a course of study, with the approval of your advisor, you shall have the option of fulfilling either the old or the new requirements. If you elect to fulfill the old requirement but find that necessary resources (e.g., courses, instruction in particular skills) are no longer available, you may make reasonable substitutes with the approval of your advisor and the appropriate dean. In the event you have not completed the requirements for a graduate degree seven years after the effective date of a change in degree requirements, the new requirements shall apply unless determined otherwise by the advisor and the appropriate academic dean.

Student Responsibility

Graduate students accept responsibility to remain current and informed on all regulations, policies, and procedures of their academic program and of the University.

The provisions of this catalog do not constitute a contract, expressed or implied, between any applicant or student and Marshall University. The University reserves the right to change any of the provisions, schedules, programs, courses, rules, regulations, or fees whenever University authorities deem it expedient to do so.

Contact Directory

For specific information about academic or student services at Marshall University, the following telephone numbers are provided. All are in area code 304.

Contact	Phone
Academic Affairs	**696-6840**
Graduate Admissions	696-4723
Colleges and Schools	
College of Arts and Media	696-3686
College of Business	696-2314
College of Education and Professional Development	
Huntington	696-3131
South Charleston	746-1992
College of Engineering and Computer Sciences	696-5453
College of Liberal Arts	696-2350
College of Health Professions	696-2624
College of Science	696-2372
Joan C. Edwards School of Medicine	691-1700
School of Pharmacy	691-0493
Departments and Divisions	
Accounting	696-2311
Art and Design	696-6760
Biological Sciences	696-5413
Biomedical Sciences	696-7313
Business Administration	746-1947
Chemistry	696-2430
Communication Disorders	696-3641
Communication Studies	696-6786
Counseling	746-1966
Criminal Justice	696-3083
Early Childhood Education	696-2340
Economics/Finance	696-2311
English	696-6600/6601
Finance/Economics	696-2311
Forensic Science	691-8963
Geography	696-4364
Geology	696-6498
Health and Momvement Sciences	696-6490
Health Care Administration	696-5292

Health Informatics	746-1968
History	696-6780
Human Resource Management	696-4648
Humanities	746-1923
Latin	696-4323
Leadership Studies	746-8959
Literacy Education	746-1986
Management, Marketing and Management Information Systems	696-5423
Mathematics and Physics	696-6482
Modern Languages	696-6730
Music	696-3117
Nursing	696-5272
Nutrition and Dietetics	696-4336
Physical Therapy, School of	696-5611
Physician Assistant	696-6035
Political Science	696-2764
Psychiatry	691-1500
Psychology	696-6446
Public Health	696-5772
Religious Studies	696-2702
School of Medicine	691-1300
School Psychology	746-2067
Social Work	696-3146
Sociology	696-2795
Special Education	696-2340
Sport Administration	746-8964
Technology Management	696-2314
Resources and Centers	
Access, Connections, and Engagement (ACE) Center	696-6705
Accessibility and Accommodations, Office of	696-2467
Alumni Relations	696-2524
Artists Series	696-6656
Athletics	696-5408
Ticket Office	696-4373
Bookstore	696-3622
Bursar	696-6620
Campus Christian Center	696-2444
Career Education	696-2370
Center for Teaching and Learning	696-2206
Center for Environmental, Geotechnical and Applied Sciences	696-6028
Counseling Services	696-3111
Dining Services (Sodexo)	696-2534
HELP Program	696-6256
ID Office	696-6843
Information Technology Service Desk	696-3200
Libraries	
Drinko	696-2320
Circulation	696-2321
Reference & Instruction Services	696-6575
Government Documents	696-2342
Health Sciences	691-1750
Morrow Stacks	696-2343
South Charleston	746-8910
Special Collections	696-2343
MUOnLine	696-7117
Psychology Clinic	696-2772
Registrar	696-6410
Residence Services	696-6765
Student Activities	696-8832
Student Advocacy and Support	696-6833
Student Center	696-2528
Student Financial Assistance	696-3162
Student Government	696-6436
Study Abroad	696-6229
Theatre	696-7184
Tutoring Office	696-6622
Veterans Affairs	696-5278
Women's Center	696-3338
Writing Center	696-6254
Campuses and Other Locations	
Mid-Ohio Valley Center	674-7200
South Charleston Campus	746-2500

About Marshall University

Brad D. Smith, President

https://www.marshall.edu/

Marshall University encourages individual growth by offering programs and instruction in attainment of scholarship, acquisition of skills, and development of personality. The university provides students with opportunities to understand and to make contributions to the culture in which they live; to develop and maintain physical health; to participate in democratic processes; to learn worthwhile moral, social, and economic values; to develop intellectual curiosity and the desire to continue personal growth; and to share in a varied cultural program. Professional, technical, and industrial career studies are available through the various departments of the university.

Marshall also recognizes an obligation to the state and community by offering evening, off-campus, and Internet classes, lectures, musical programs, conferences, forums, and other campus and field activities.

Mission of the University

Marshall University is a public comprehensive university with a rich history as one of the oldest institutions of higher learning in West Virginia. Founded in 1837 and named after Chief Justice John Marshall, definer of the Constitution, Marshall University advances the public good through innovative, accredited educational programs. Marshall University's mission, inspired by our Vision and Creed, includes a commitment to:

- Offer a wide range of high quality, affordable, and accessible undergraduate, graduate, and professional education that

prepares students to think, learn, work, and live in an evolving global society.
- Create opportunities and experiences to foster understanding and appreciation of the rich diversity of thought and culture.
- Maintain a dynamic intellectual, artistic, and cultural life by promoting and supporting research and creative activities by undergraduates, graduates, and faculty.
- Contribute to the quality of life of the community, region, and beyond through applied research, economic development, health care, and cultural enrichment.
- Cultivate the development of an inclusive, just, and equitable community.

Vision Statement

The vision of Marshall University: to inspire learning and creativity that ignites the mind, nurtures the spirit, and fulfills the promise of a better future.

The Marshall Creed

Inspired by the example of John Marshall, we the students, faculty, staff, and administrators of Marshall University, pledge to pursue the development of our intellects and the expansion of knowledge, and to devote ourselves to defending individual rights and exercising civic responsibility. We strive to exemplify in our own lives the core values of John Marshall's character: independence, initiative, achievement, ethical integrity, and commitment to community through association and service. As Marshall University, we form a community that promotes educational goals and that allows individuals maximum opportunity to pursue those goals.

We are:

- **An Educational Community** in which all members work together to promote and strengthen teaching and learning;
- **An Open Community** uncompromisingly protecting freedom of thought, belief and expression;
- **A Civil Community** treating all individuals and groups with consideration, decency, and respect, and expressing disagreements in rational ways;
- **A Responsible Community** accepting obligations and following behavioral guidelines designed to support the common good;
- **A Safe Community** respecting each other's rights, privacy and property;
- **A Well Community** respecting and promoting physical and emotional health;
- **An Ethical Community** reflecting honesty, integrity and fairness in both academic and extracurricular activities;
- **A Pluralistic Community** celebrating and learning from our diversity;
- **A Socially Conscious Community** acting as citizens of the world and seeking to contribute to the betterment of people and their environments;
- **A Judicious Community** remaining alert to the threats posed by hatred, intolerance and other injustices and ever-prepared to correct them.

Approvals And Recognitions

- **Federal Immigration and Nationality Act** approves Marshall University for attendance of nonimmigrant international students.
- **Board of Certified Safety Professionals** recognizes the B.S. in Occupational Safety and Health.
- **Institute of Hazardous Materials Management (IHMM)** recognizes the B.S. in Occupational Safety and Health is recognized as a Associate Safety and Health Manager (ASHM) program.

Membership in Major Organizations

- AACSB/International Association to Advance Collegiate Schools of Business
- American Association of Colleges of Pharmacy
- American Association of State Colleges and Universities
- American Council of Academic Physical Therapy
- American Council on Education
- American Library Association
- Association of American Medical Colleges
- Association of Departments of English, MLA
- Association of Schools of Journalism and Mass Communication
- Association of Writers and Writing Programs
- Council of Colleges of Arts and Sciences
- Council of Graduate Schools
- CUPA-HR
- The Honor Society of Phi Kappa Phi
- International Council of Fine Arts Deans
- NACUBO-SACUBO
- National Association of Fellowships Advisors
- National Collegiate Athletic Association
- National Collegiate Honors Council
- Founding Member of the Ohio River Basin Consortium for Research and Education
- Teacher Education Council of State Colleges & Universities

History

Marshall University traces its origin to 1837, when residents of the community of Guyandotte and the farming country nearby decided their youngsters needed a school that would be in session more than three months a year. Tradition has it that they met at the home of lawyer John Laidley, planned their school, and named it Marshall Academy in honor of Laidley's friend, the late Chief Justice John Marshall. At the spot called Maple Grove they chose one and one-quarter acres of land on which stood a small log building known as Mount Hebron Church. It had been the site of a three-month subscription school and remained that for another term. Eventually $40 was paid for the site.

On March 30, 1838, the Virginia General Assembly formally incorporated Marshall Academy. Its first full term was conducted in 1838-39. For decades the fledgling school faced serious problems, most of them financial. The Civil War forced it to close for several years, but in 1867 the West Virginia Legislature renewed its vitality by creating the State Normal School at Marshall College to train teachers. This eased Marshall's problems somewhat, but it was not until the tenure of

President Lawrence J. Corbly during 1896-1915 that the college began its real growth.

In 1907, enrollment exceeded 1,000. Since then Marshall's expansion has been consistent and sometimes spectacular. Marshall was granted university status in 1961. The College of Education and Professional Development, first called Teachers College, was organized in 1920 and the first college degree was awarded in 1921. The College of Arts and Sciences was formed in 1924, The College of Applied Science came into being in 1960; the School of Business was formed in 1969. These were merged into the College of Business and Applied Science in 1972. The School of Medicine and Associated Health Professions was established in 1974, which became the Joan C. Edwards School of Medicine in 2000. The Community College was organized in 1975 and became the Community and Technical College in 1991. In 2003, the Marshall Community and Technical College became an administratively linked, separately accredited institution. Effective July 1, 2008, the Community and Technical College became a separate institution.

The College of Science was authorized by the Board of Regents in 1976. In 1977, the Board approved a change of name for the College of Arts and Sciences to the College of Liberal Arts, and for the College of Business and Applied Science to the College of Business. In 1978, the School of Nursing was established as a separate entity and in 1998 was renamed the College of Nursing and Health Professions and again in 2004 became the College of Health Professions. The W. Page Pitt School of Journalism and Mass Communications was recognized as an independent school in 1998 and in 2013 became part of the College of Arts and Media. The College of Fine Arts (now the College of Arts and Media) was established in 1984. In 1999, the College of Information Technology and Engineering (now the College of Engineering and Computer Sciences) was established. The School of Pharmacy matriculated its first class in 2012. The School of Physical Therapy, a part of the College of Health Professions, matriculated its first class in 2012.

Marshall has taken the lead in delivering courses to off-campus sites throughout the state, nation, and world via distance learning with online courses. Since the formation of the West Virginia Board of Regents in 1969, then under the University of West Virginia Board of Trustees in 1988, and now the Higher Education Policy Commission, Marshall has progressed as an urban-oriented university with regional centers and a statewide mission. As a result of state system support, and because of its own active leadership and its location in the thriving Tri-State area, Marshall is a university with excellent prospects for future development.

Graduate Education

In October, 1938, the West Virginia Board of Education authorized Marshall University to conduct graduate instruction leading to the Master of Arts and the Master of Science degrees. Graduate work was first offered during the summer session of 1939, and the first master's degrees were conferred at the commencement of 1940. The Graduate School on the Huntington campus was organized in 1948.

The Marshall University School of Medicine was established in the 1970s through federal legislation which authorized the creation of five new medical schools in conjunction with existing VA hospitals. The West Virginia Legislature appropriated funding for the school in 1975 and the Liaison Committee on Medical Education granted provisional accreditation in 1977. The first class of M.D. students entered in January 1978 and graduated in 1981.

Marshall continued to expand its doctoral degree offerings. The first Ph.D. degree at Marshall was conferred in 1992 in Biomedical Sciences (now Biomedical Research). Marshall University began to offer a Doctor of Education (Ed.D.) degree in March 2002, as a transition from a cooperative agreement with West Virginia University which began in 1980. The clinical Doctor of Psychology (Psy.D.) degree began accepting students in Fall 2002. The new School of Pharmacy began accepting students into the Doctor of Pharmacy (Pharm.D.) degree in Spring 2010. The Doctor of Management Practice in Nurse Anesthesia (D.M.P.N.A.) degree program began in Fall 2010 as a collaboration between the Lewis College of Business and Charleston Area Medical Center. The first Doctor of Physical Therapy (D.P.T.) degree class began in Summer 2012. The Doctor of Nursing Practice (D.N.P.) degree program began in Fall 2019. The Doctor of Business Administration (D.B.A) degree program was founded in 2021. The Ph.D. in Engineering degree program began accepting students in Fall 2024. By Fall 2024, Marshall offered five research doctorate and six professional doctorate programs, over 55 master's degree programs, and two Education Specialist programs, as well as many graduate certificate programs.

Graduate education on the South Charleston Campus was born in 1958 when West Virginia University was authorized by the Legislature to establish the Kanawha Valley Graduate Center, which began offering courses in chemistry and chemical, mechanical and civil engineering in 1958-59. In July 1972, the Legislature established the college as a separate entity, the West Virginia College of Graduate Studies (COGS). Two years later, the Board of Regents further defined its mission by specifying geographical areas of responsibility, designating COGS to serve 16 counties of central and southern West Virginia with graduate programs—an area containing about 39 percent of the state's population. On July 1, 1989, a restructured University System of West Virginia was implemented and COGS became the University of West Virginia College of Graduate Studies. With the advent of a new statewide mission approved by the Board of Trustees in 1991, the name was modified in March 1992 to West Virginia Graduate College.

On July 1, 1997, the West Virginia State Legislature authorized a merger of Marshall University and the West Virginia Graduate College, providing a new campus for Marshall University in South Charleston and a producing new college, the Marshall University Graduate College. Today the South Charleston campus is the home of the graduate Humanities and Psychology master's programs as well as graduate programs in the College of Business and the College of Education and Professional Development.

In 2019, Marshall was recognized by the Carnegie Classification of Institutions at the "Doctoral University: High Research Activity" level (commonly known as "R2"). This change in status reflected the increase in programmatic offerings as well as growth in research. In 2020, Marshall reorganized the Graduate College into the Office of Graduate Studies. This office, housed within Academic Affairs, is led by the Assistant Provost for Graduate Studies.

Graduate Studies

Carl Mummert, Assistant Provost For Graduate Studies

www.marshall.edu/graduate (https://www.marshall.edu/graduate/)

Graduate Education At Marshall

Over the past seven decades Marshall University has provided graduate education to tens of thousands of students and has

contributed to the economic and cultural life of the state, region, and nation. At Marshall University, the more than 620 faculty who hold graduate faculty status offer a broad range of courses in many different disciplines. Students may choose from master's programs, doctoral programs, Education Specialist degrees and graduate certificate programs, as well as an array of professional and professional development courses.

Graduate education is offered on the Huntington campus, the South Charleston campus, throughout the state and region and online worldwide. Some programs offer courses on either the Huntington or South Charleston campus. Some programs offer courses on both campuses and students may complete those programs, start to finish, at the campus location of their choice.

Mission Of Graduate Education

The graduate mission of Marshall University is to provide quality educational opportunities at times and places convenient to students, employing alternative delivery systems and rich learning resources. The institution promotes excellence in instruction, research and public service in the interest of enhancing the intellectual, professional and personal growth of students, faculty and staff. Throughout the state Marshall University offers master's degrees, post-master's programs, doctoral degrees and professional development options according to needs and with a minimum of duplication.

In support of its graduate mission, Marshall University values:

- excellence in teaching and advising;
- support services for students;
- the expansion of knowledge through research and inquiry;
- an interactive and collaborative relationship with the community;
- open access to quality educational opportunities;
- lifelong learning;
- cultural diversity;
- the continuous review of our programs and administrative processes;
- innovation and efficiency in the use of resources; and
- personal and institutional accountability.

To fulfill its graduate mission, Marshall University supports the commitment of institutional resources to ensure:

- quality in existing graduate programs;
- adequate library resources for meeting accreditation requirements, electronic library needs and program initiatives;
- access to graduate programs within the state, region and nation;
- promotion of technological delivery of courses and programs;
- development of new graduate programs at the master's, post-master's, and doctoral levels according to need;
- recruitment and retention of a strong and diverse graduate faculty;
- recruitment and retention of a strong and diverse graduate student population; and
- development of student life initiatives appropriate for graduate students.

The Graduate Council

The primary responsibility of the Graduate Council is to make policy recommendations with respect to the graduate educational mission of the university to the university president. Specific functions include the facilitation of long-range planning for graduate education at Marshall University, the recommendation of new programs and courses, the evaluation of existing programs and courses, the facilitation of graduate accreditation, the recommendation of promotion and tenure policies related to graduate education, and the recommendation of approval of graduate faculty to the university president.

The Graduate Faculty

There are currently more than 620 faculty who hold graduate faculty status and offer a broad range of courses in many different disciplines.

Research Centers

Marshall University has a particular interest in research by students and faculty. It is the responsibility of the Assistant Provost for Graduate Studies to promote research by all available means. A Research Committee composed of faculty members advises the assistant provost on such matters. Students and faculty interested in research opportunities or who need assistance in their research activities may contact the Graduate Studies office in Huntington.

Cell Differentiation and Development Center

The Cell Differentiation and Development Center (CDDC) is an inter-disciplinary group aimed at increasing institutional research capacity at Marshall University. The products and outcomes of this venture will be applied to further technology-based economic development in Huntington, Cabell County, and the surrounding Tri-State area. The multidisciplinary research groups within the CDDC mainly focus on the mechanisms that govern cellular differentiation and development.

Center for Business and Economic Research

Standing as a research arm of Marshall University, the CBER's mission is to conduct business and economic research pertinent to the West Virginia and Tri-State regional economies; provide related research and service support to faculty; support university economic development and service efforts; integrate with the business community through direct faculty involvement in research related to the West Virginia and Tri-State economies; provide business and economic development support to private and public sector constituencies; disseminate information, research findings, and data; and encourage and support faculty in their intellectual pursuits and contributions.

Center for Consumer Law and Education (CCLE)

CCLE, a joint program of Marshall University and the West Virginia University College of Law, is a leading research and educative consumer rights and policy development center. This unique partnership brings together scholars, practitioners, and students to empower, lead, and transform communities. The CCLE has exceptional capacity, with access to both faculty and students at Marshall University and the WVU College of Law. It has administrative support at both institutions. It often assists consumers with self help by explaining the "how to" and the "where at" regarding consumer issues, and educates students through experiential learning opportunities, and coordinates as well the efforts and resources of other interested partners. This partnership gives the center the unique ability to access, develop, and execute programs across the state.

Center for Environmental, Geotechnical and Applied Sciences

CEGAS was established in May 1993 through the cooperative efforts of the presidents of Marshall University and West Virginia Graduate College. On July 1, 1998, CEGAS became an affiliated organization of the College of Information Technology and Engineering (CITE), now known as the College of Engineering and Computer Sciences. The goal of the center is to forge close working relationships among the business community, higher education institutions, and government agencies in technology-related endeavors. CEGAS has been involved since its inception with educational offerings, research, service, and long-term planning for regional development.

The center has secured more than $10 million in external contracts and grants for research, development, and service projects in multiple fields of study, including environmental management, engineering, information technology, geographic information systems, safety and health technology innovation, specialized training, and business assistance through its environmental management Incubator. WV Senate Bill 603 was passed in spring 2005, authorizing the development of regional brownfield assistance centers at Marshall University and West Virginia University. Under CEGAS, the Southern West Virginia Brownfields Assistance Center assists eligible entities in 22 West Virginia counties to convert derelict land into useful and productive property through economic development, workforce development, and site revitalization.

For more information, please visit www.marshall.edu/cegas (http://www.marshall.edu/cegas/) or contact CEGAS at 304-696-5453 or cegas@marshall.edu.

Center for the Study of Ethnicity and Gender in Appalachia

CSEGA was made possible by a grant from the Rockefeller Foundation in 1996. The program was established to research and promote research on the various aspects of the people, cultures, and lives within the Appalachian region. The program's accomplishments have included sponsoring 10 scholars in residence, 7 scholar affiliates, and hosting 2 conferences. CSEGA has a unique research mission — it is the only Appalachian center in the country dedicated to studying and understanding the incredible diversity of the region.

Environmental Management Incubator

The incubator works to enhance the sustainability of regional businesses by providing access to environmental information and management strategies, and by encouraging business development based on environmentally-related opportunities.

John Deaver Drinko Academy

The Drinko Academy is devoted to enhancing public understanding of American institutions and the responsibilities of citizens to their society, particularly a sense of shared values and common purpose.

Marshall Advanced Manufacturing Center

The Marshall Advanced Manufacturing Center is the only statewide manufacturing technology production and teaching resource in the state. It provides manufacturers with access to advanced equipment; affordable, customized workforce development and technical training programs; quality certification and implementation assistance, and an array of technical support programs.

Marshall Institute for Interdisciplinary Research

The goal of this institute, created through the state's "Bucks for Brains" research trust fund, is to develop a focused program of pioneering research dedicated to producing patentable scientific breakthroughs and creating new high-tech businesses based on those discoveries. Focusing on entrepreneurial research through increased educational and career opportunities, it is anticipated that MIIR will have a tremendous effect on the state economy over the next 10 to 20 years. Currently in its second decade of existence, MIIR is slated to enhance the overall state economy by more than $280 million.

Marshall University Forensic Science Center

This center provides training to U.S. local, state and foreign country law enforcement agencies; backlog reduction services to U.S. local and state law enforcement agencies; and research on various forensic science topics such as digital forensics, forensic soil analysis, forensic pollen, drug analysis, fire and explosives analysis, DNA method validation studies, and crime scene investigation; educational services to high schools and other members of the local community; economic development services to the public-at-large including civil parentage testing and DNA sample preservation services to families of the deceased. The Forensic Science Center at Marshall University has been designated as a criminal justice agency. The center also houses the accredited M.S. in Forensic Science program, the accredited MU Combined DNA Indexing System (CODIS), criminal relationship and casework labs, and the West Virginia Cybercrimes Investigation Unit.

Marshall University Nutrition and Cancer Center

Investigators at this NCRR/NIH-funded Center of Biomedical Research Excellence are studying a wide variety of dietary components, including omega-3 fatty acids, capsaicin (responsible for the "hotness" of chili peppers) and alcohol. Cancers of interest include small cell lung cancer, breast cancer, skin cancer and leukemia/lymphoma.

Appalachian Transportation Institute

The institute helps influence a more diverse and equitable economy for rural Appalachia and other mountain areas by providing insights into how to create and maintain the most cost-effective enhancement to the national transportation system in rural Appalachia and rural America.

Robert C. Byrd Center for Rural Health Resources

This center serves as the base for Marshall's rural medicine outreach programs, which directly affect more than half of West Virginia's population.

West Virginia Autism Training Center

This center provides training, information and support to West Virginians with autism, their families, educators and others.

West Virginia IDeA Network of Biomedical Research Excellence

The primary goal of this institute is to develop competitive NIH research at primarily undergraduate institutions in the state. The program also provides students at these institutions with

enhanced research experiences. The principal areas of research are cardiovascular disease and cancer.

Accreditations

Marshall University Accreditations

- **The Higher Learning Commission** accredits Marshall University as an institution of higher learning.

  Higher Learning Commission
  230 South LaSalle Street, Suite 7-500
  Chicago, IL 60604-1411
  Toll-free 800-621-7440/312-263-0456/Fax:
  312-263-7462/info@hlcommission.org
  www.hlcommission.org (https://www.hlcommission.org)

- **Accreditation Council for Continuing Medical Education** accredits the School of Medicine's Continuing Medical Education program. www.accme.org/ (https://www.accme.org/)
- **Accreditation Council for Graduate Medical Education** accredits the School of Medicine's Residency and Fellowship Programs. www.acgme.org/ (https://www.acgme.org/)
- **AACSB International – The Association to Advance Collegiate Schools of Business** accredits the College of Business. www.aacsb.edu/ (https://www.aacsb.edu/)
- **AACSB International – The Association to Advance Collegiate Schools of Business** accredits accounting degree programs of the College of Business. www.aacsb.edu/educators/accreditation/accounting-accreditation (https://www.aacsb.edu/educators/accreditation/accounting-accreditation/)
- **ABET** accredits programs in the College of Engineering and Computer Sciences as follows:
  - The Bachelor of Science in Biomedical Engineering is accredited by the Engineering Accreditation Commission of ABET, www.abet.org (https://www.abet.org), under the General Criteria and the Bioengineering and Biomedical and Similarly Named Engineering Programs Program Criteria.
  - The Bachelor of Science in Civil Engineering is accredited by the Engineering Accreditation Commission of ABET, www.abet.org, (https://www.abet.org) under the General Criteria and the Civil and Similarly Named Engineering Programs Program Criteria.
  - The Bachelor of Science in Computer Science is accredited by the Computing Accreditation Commission of ABET, www.abet.org (https://www.abet.org), under the General Criteria and the Computer Science and Similarly Named Computing Programs Program Criteria.
  - The Bachelor of Science in Electrical and Computer Engineering is accredited by the Engineering Accreditation Commission of ABET, www.abet.org (https://www.abet.org), under the General Criteria and the Electrical, Computer, Communications, Telecommunication(s), and Similarly Named Engineering Programs Program Criteria.
  - The Bachelor of Science in Engineering is accredited by the Engineering Accreditation Commission of ABET, www.abe (https://www.abet.org)t.org, under the General Criteria and the Engineering, General Engineering, Engineering Physics, and Engineering Science and Similarly Named Engineering Programs Program Criteria.
  - The Bachelor of Science in Mechanical Engineering is accredited by the Engineering Accreditation Commission of ABET, www.abet.org (https://www.abet.org), under the General Criteria and the Mechanical and Similarly Named Engineering Programs Program Criteria.
  - The Bachelor of Science in Occupational Safety and Health is accredited by the Applied and Natural Science Accreditation Commission of ABET, www.abet.org (https://www.abet.org), under the General Criteria and the Safety and Similarly Named Programs Program Criteria.
- **American Chemical Society** certifies the Department of Chemistry. www.acs.org/ (https://www.acs.org/)
- **American Psychological Association** accredits Doctor of Psychology degree program. www.apa.org/ (https://www.apa.org/)
- **The Accreditation Council for Education in Nutrition and Dietetics** accredits the B.S. in Dietetics, and the Dietetic Internship.

  The Accreditation Council for Education in Nutrition and Dietetics
  Academy of Nutrition and Dietetics
  120 South Riverside Plaza, Suite 2190
  Chicago, Illinois 60606-6995
  800/877-1600 ext. 5400
  www.eatrightpro.org/acend (https://www.eatrightpro.org/acend/)

- **Accrediting Council on Education in Journalism and Mass Communication** accredits the W. Page Pitt School of Journalism & Mass Communications. www.acejmc.org/ (https://www.acejmc.org/)
- **Commission on Accreditation for Respiratory Care (CoARC)** accredits the B.S. in Respiratory Care (cooperative program with St. Mary's School of Respiratory Care). coarc.com/ (https://coarc.com/)
- **Commission on Accreditation in Physical Therapy Education** accredits the Doctor of Physical Therapy program. www.capteonline.org/ (https://www.capteonline.org/)
- **Commission on Accreditation of Allied Health Education Programs** accredit the Sonography program at St. Mary's School of Medical Imaging. www.caahep.org/ (https://www.caahep.org/)

  Commission on Accreditation of Allied Health Education Programs
  9355 - 113th St. N, #7709
  Seminole, FL 33775
  Telephone 727-210-2350

- **Commission on Accreditation of Athletic Training Education** accredits the Athletic Training program. caate.net/ (https://caate.net/)

  Commission on Accreditation of Athletic Training Education
  2001 K Street NW, 3rd Floor North
  Washington, DC 20006
  Telephone: 512-733-9700 or 844-462-2283

- **Council for the Accreditation of Educator Preparation (CAEP)** and the **West Virginia State Department of Education** accredit the teacher education program (initial and advanced levels). caepnet.org/ (https://caepnet.org/)
- **Council on Academic Accreditation of the American Speech-Language-Hearing Association** accredits the Communication

Disorders graduate program. caa.asha.org/ (https://caa.asha.org/) (https://caa.asha.org/)

Council on Academic Accreditation of the American Speech-Language-Hearing Association
2200 Research Boulevard, #310
Rockville, MD 20850
Telephone 800-498-2071
Email: accreditation@asha.org

- **Council for Accreditation of Counseling and Related Educational Programs (CACREP)** accredits the M.A. in Counseling (School and Mental Health). www.cacrep.org/ (https://www.cacrep.org/)
- **Council on Accreditation for Health Informatics and Information Management Education** accredits the M.S. in Health Informatics. www.cahiim.org/ (https://www.cahiim.org/)
- **Council on Education for Public Health (CEPH)** accredits the Master of Public Health program. ceph.org/ (https://ceph.org/)
- **Council on Social Work Education** accredits the Bachelor of Social Work and Master of Social Work programs. www.cswe.org/ (https://www.cswe.org/)

Council on Social Work Education
333 John Carlyle Street, Suite 400
Alexandria, VA 22314
Telephone 703-683-8080
Email: info@cswe.org

- **Liaison Committee on Medical Education of the American Medical Association** accredits the MD program. lcme.org/ (https://lcme.org/)
- **National Accrediting Agency for Clinical Laboratory Sciences** accredits the Medical Laboratory Science program and the Medical Laboratory Technician program. www.naacls.org/ (https://www.naacls.org/)

National Accrediting Agency for Clinical Laboratory Sciences
5600 N. River Road, Suite 720
Rosemont, IL 60018- 5119

- **National Association of School Psychologists** accredits the Ed.S. in School Psychology. www.nasponline.org/ (https://www.nasponline.org/)
- **National Association of Schools of Music** accredits the School of Music. nasm.arts-accredit.org/ (https://nasm.arts-accredit.org/)

National Association of Schools of Music
11250 Roger Bacon Drive, Suite 21
Reston, VA 20190-5248
703-437-0700
Email: info@arts-accredit.org

- **Accreditation Commission for Education in Nursing, Inc.** accredits programs for the Associate in Science in Nursing, Bachelor of Science in Nursing, Master of Science in Nursing, Clinical Doctorate in Nursing, and one post-master's certificate. www.acenursing.org/ (https://www.acenursing.org/)

Accreditation Commission for Education in Nursing (ACEN)
3390 Peachtree Road NE, Suite 1400
Atlanta, GA 30326
Phone 404-975-5000
https://www.acenursing.org/candidacy (https://www.acenursing.org/candidacy/)

- **Forensic Science Education Programs Accreditation Commission (FEPAC) through the American Academy of Forensic Sciences (AAFS)** accredits the M.S. in Forensic Science and the Forensic Science M.S. with areas of emphasis in Digital Evidence. www.aafs.org/FEPAC (https://www.aafs.org/FEPAC/)
- **Accreditation Council for Pharmacy Education** accredits the Doctor of Pharmacy (Pharm.D.) program. www.acpe-accredit.org/ (https://www.acpe-accredit.org/)
- **The Commission on Dental Accreditation** accredits the General Practice Dental Residency at Cabell Huntington Hospital. coda.ada.org/ (https://coda.ada.org/)
- **The Accreditation Review Commission on Education for the Physician Assistant, Inc.** accredits the Physician Assistant Program (Master's). www.arc-pa.org/ (https://www.arc-pa.org/)

The Accreditation Review Commission on Education for the Physician Assistant, Inc. (ARC-PA) has granted **Accreditation-Continued** status to the **Marshall University Physician Assistant Program** sponsored by **Marshall University**. Accreditation-Continued is an accreditation status granted when a currently accredited program is in compliance with the ARC-PA *Standards*.

Accreditation remains in effect until the program closes or withdraws from the accreditation process or until accreditation is withdrawn for failure to comply with the *Standards*. The approximate date for the next validation review of the program by the ARC-PA will be **July 2035**. The review date is contingent upon continued compliance with the Accreditation *Standards* and ARC-PA policy.

The program's accreditation history can be viewed on the ARC-PA website at https://www.arc-pa.org/accreditation-history-marshall-university/.

Admissions

Admission to A Graduate Program

The first step for a student interested in attending Marshall as a graduate student is to obtain admission information from the department offering the desired program or from the Graduate Admissions Office. Instructions for applying are available at the website at http://www.marshall.edu/graduate/admissions/how-to-apply-for-admission (http://www.marshall.edu/graduate/admissions/how-to-apply-for-admission/). Prospective graduate students should apply for admission as early as possible.

Accelerated Graduate Degrees

Marshall undergraduates who wish to begin graduate studies before completing their bachelor's degree should consult *Accelerated Graduate Degree (AGD)* in the *Academic Requirements and Regulations* section of this Catalog. Accelerated options in specific programs can be found by accessing individual program overviews from the *Graduate Programs A-Z* section of the Catalog. Students in an accelerated degree program apply for graduate admission during the semester when they complete their bachelor's degree requirements.

Graduate Admission Checklist

To apply to Marshall as a graduate student, an applicant must follow these steps:

- Complete, sign, and submit the *Graduate Application for Admission*, along with any required application fee, by the published deadline. The *Graduate Application for Admission* is availafble online at https://www.marshall.edu/admissions/apply/.
- Request that the registrar's office of each institution previously attended (except Marshall) send official transcripts from U.S. institutions directly to the Graduate Admissions Office as required. Marshall Graduate Admissions will obtain an applicant's transcript from Marshall, if applicable.
  - Students who cannot yet receive official transcripts for a recently completed a bachelor's degree should consult *Conditional Admission* under *Admission Classification of Graduate Students* in this section of the Catalog.
  - Transcripts from non-U.S. institutions must be accompanied by NACES member evaluations as described under *Transcript Requirement*.
- Have the appropriate testing agency submit official standardized exam scores (if required) directly to the Graduate Admissions Office.
- Send or have sent all other items required by the desired academic program to the Graduate Admissions Office.

Applications are reviewed only after all required documents and credentials and any required application fee are received. Holds or other obligations from previous institutions may cause a delay in application processing or may cause the application not to be processed.

Certain programs utilize a Centralized Application System (CAS). Information on the application process for these programs may be found in the *Admission Requirements* section of each program description in this Catalog. Students in these programs must meet all university and program requirements for admission.

Application Deadlines for Applicants who Do Not Require a Visa to Study in the United States

The *Graduate Application for Admission*, all required documents and credentials, and any required application fee must be submitted to the Graduate Admissions Office no later than the deadline for the desired academic term. Applicants who require a visa have earlier admission deadlines listed in the section *Application Deadlines for Students who Require a Visa to Study in the United States.*

Application Deadlines for Applicants who Do Not Require a Visa to Study in the United States

- Fall Term: August 1
- Spring Term: December 1
- Summer Term: May 1

Certain academic programs have earlier, program-specific deadlines. Program-specific deadlines are included in each program listing under *Admissions* in this Catalog.

Application Fees

Applicants should pay any required application fee at the time the application is submitted, either via the application portal or by calling the Graduate Admissions office after submission. Information about the application fee for a particular applicant and desired program may be obtained from the Graduate Admissions Office. Application fees are not refundable regardless of whether the application is accepted or not accepted or whether the applicant is unable to enroll or attend classes.

Admissions Criteria

Admission to a graduate degree program is based primarily on receipt of a bachelor's degree from an accepted, accredited institution, the Grade Point Averages shown on required transcripts or transcript evaluations, the scores on required admissions examinations, and the information provided on the *Graduate Application for Admission* form. Certain programs have additional program-specific criteria as described in the *Admission Requirements* section of each program in this Catalog.

Marshall reserves the right, even after the arrival and enrollment of a student, to make individual curricular adjustments whenever particular deficiencies or needs are identified. These deficiencies will be determined by the student's advisor, the Program Director, or the Department Chair. Students may be required to take such courses without credit toward the master's degree and at their own expense. This provision also applies to additional coursework in Speech and/or English whenever necessary.

Admission to Marshall University does not guarantee admission to all programs. Applicants must apply to the specific program that they wish to pursue. Additional admissions requirements or exceptions applicable to specific programs are noted in the specific program entries in this Catalog.

Any appeals of admissions decisions should be directed to the Program Director, Chair, or Dean of the academic program to which the individual applied.

Admission Classification of Graduate Students

Degree Seeking Students

An applicant who desires admission as a degree-seeking graduate student must have an overall Grade Point Average of 2.50 on a 4.0 scale from the bachelor's-degree-granting institution. The applicant must provide an official transcript from the degree-granting institution, accompanied by a NACES member transcript evaluation for non-U.S. institutions. Individual schools and programs may require higher grade point averages and/or additional credentials or documentation.

Applicants who have not earned the required minimum undergraduate GPA from the degree-granting institution may be considered for full admission if they have successfully completed a graduate/advanced degree from an accepted, accredited institution.

Dual-Degree Seeking Students

Applicants who wish to seek admission to more than one degree program at a time (Dual-Degree Status) must complete a separate application for each program, pay an additional application fee if applicable, submit all required credentials, and meet all admission

requirements for each academic program to which admission is sought.

A maximum of 12 semester credit hours from a prior degree may be applied toward a subsequent master's degree, with the approval of the department from which the subsequent degree is sought. Not all departments may accept a student who is already admitted to another graduate level program. Prior to submitting a *Graduate Application for Admission* form, applicants should check with the academic department(s) of the program(s) in which they are interested. Students who desire a second area of emphasis within their major should notify their advisor or Program Director after admission to see if it is permissible within that major.

Certificate or Professional Development Admission

Applicants who do not wish to be enrolled in a degree program but who wish to enroll in certificate/licensure programs or other programs that require the completion of specified sequences of courses should apply as certificate or professional development students.

In most cases, requirements for admission to certificate or professional development programs are the same as for admission to degree programs, including at least a 2.50 overall undergraduate GPA. However, requirements for admission to these programs can vary and are explained in the *Admissions Requirements* section of each program in this Catalog.

Provisional Admission

An applicant may be granted Provisional Admission to a degree program after submission of all required application materials when he or she possesses a bachelor's degree and shows academic promise but does not meet the criteria for regular admission.

A provisionally admitted student must be fully admitted no later than the completion of the 12th graduate credit hour to take additional coursework. This change of status is accomplished by meeting the conditions established by the academic program and by maintaining at least a 3.0 GPA in courses identified by the program faculty and approved by the appropriate Dean. Not all programs offer provisional admission. Please see the *Admission Requirements* section for each program in this Catalog for program-specific information.

Applicants to non-degree majors may be admitted provisionally if they possess a bachelor's degree and show academic promise, but do not meet the criteria for regular admission. Applicants for non-degree provisional admission must submit a written rationale, and the provisional admission must be approved by the Assistant Provost for Graduate Studies.

Conditional Admission

The Conditional Admission status may be sought by applicants who expect to receive a bachelor's degree before beginning graduate work at Marshall, but have not officially received the degree at the time of application. All required credentials, including official transcripts, are necessary for consideration, including an official letter of good standing/proof of pending graduation.

Applicants who are not fully admitted may be conditionally admitted for the term for which they have applied for entry based upon submission of:

1. A properly completed *Graduate Application for Admission* form and any appropriate application fee,
2. An official transcript demonstrating anticipated conferral of a bachelor's degree from an accepted, accredited institution,
3. An undergraduate GPA from the bachelor's degree institution that meets or exceeds 2.50 on a 4.0 scale as well as the program's minimum GPA requirement (if applicable), and
4. All other application materials required by the academic program.

Not all programs offer conditional admission. Please see the *Admission Requirements* section for each program in this catalog for program-specific information.

An applicant can be conditionally admitted for one term only, whether or not they enroll for that term. The applicant must be fully admitted to the requested program before enrolling for subsequent terms. "Enrollment" is defined as registration for at least one class at any time during a term.

A student cannot be conditionally admitted to multiple programs within one calendar year and cannot be conditionally admitted to the same program, at any time, more than once. Credit for coursework taken while conditionally admitted will not be applied toward a degree unless the admission process is completed and full admission is granted.

Temporary Admission

Some professional programs may offer Temporary Admission to applicants when the application has been accepted on a preliminary basis pending fulfillment of all admission requirements, including successful completion of required prerequisite courses, prior to the start of the selected entry term. If all admission requirements are not met by the start of the selected admit term, the temporary admission status will be rescinded and a denial of admission will be issued.

Non-Degree Admission

Individuals who desire university instruction without becoming graduate degree candidates may attend as non-degree students, provided they have received a bachelor's degree from an accepted, accredited institution.

The fees for attendance as a non-degree student are the same as those for other graduate students. Non-degree students generally are not eligible for financial aid or graduate tuition waivers.

Students wishing to take courses offered by the College of Business must secure approval of the academic advisor. Non-degree enrollment for graduate courses is not available to individuals under suspension by the university.

A non-degree student who does not hold a master's or higher degree may take a maximum of 15 semester credit hours. Permission for these students to register for additional hours beyond 15 can be granted by the Dean of the academic program. A non-degree student holding a master's or higher degree may take an unrestricted number of additional credit hours for which he/she has the prerequisites and departmental permission, provided both a transcript verifying the undergraduate degree and a transcript verifying a master's degree or higher (both from an accepted, accredited institution) are submitted along with any required transcript evaluations.

Applicants for non-degree status will complete a *Graduate Application for Admission*, pay any applicable application fee, and submit official transcripts showing proof of a bachelor's degree not later than the scheduled time of registration. All transcripts must be official and sent to the Graduate Admissions Office directly from the Registrar's office of the original institution.

Non-degree graduate students may apply later for admission to degree programs by filing the necessary documents, provided they meet the admission requirements described in the current Marshall University Graduate Catalog. However, work taken as a non-degree student cannot in itself qualify the student for admission as a degree candidate. Only credit approved by the academic program and the appropriate Dean will be counted toward a degree awarded by the university.

Transient Admission

A graduate student who is enrolled at another accepted, accredited graduate institution may, upon submission of an admission application and a letter of good standing from the registrar at the home institution, enroll for Marshall graduate coursework. This admission is valid for one term only. The student must submit a new application and provide a letter of good standing for each term he or she wishes to attend.

Each institution determines the amount of transfer work that it will accept. Permission to transfer credits is arranged by the student with the home institution. Transient students who wish to register for coursework beyond twelve credit hours at Marshall are required to obtain the approval of the Assistant Provost for Graduate Studies.

Staff Development Admission

School personnel approved by their county school systems may use a departmental form to be admitted in the Staff Development category. Students admitted in this category are restricted to registering for Staff Development classes (560 series) in the College of Education and Professional Development, for which they will receive credit/non-credit or satisfactory/unsatisfactory grades. Such classes cannot be used in degree, professional development or licensure programs. Students who wish to enroll in both regular and Staff Development classes must seek regular admission to a graduate program.

Senior Admission

Senior-level undergraduate students at accepted, accredited institutions with a cumulative GPA of at least 2.75 may register for graduate classes (500 and 600 series) after they have received approval from their undergraduate Dean, the chair of the department offering the course, and the appropriate graduate academic Dean. Complete applications must be on file in the appropriate academic Dean's office and permission secured prior to the opening of the term of enrollment.

Credit for graduate courses completed as a senior can be applied by Marshall to either an undergraduate or a graduate degree at Marshall but not to both, except in Marshall Accelerated Graduate Degree programs. A student must determine at the time of registration whether a course will apply to undergraduate or graduate degree requirements. No more than 12 graduate hours may be taken as an undergraduate. Additional information is provided under *Accelerated Graduate Degree (AGD)* in the *Academic Requirements and Regulations* section of this Catalog.

Bachelor's Degree Requirement

The receipt of a bachelor's degree from an accepted, accredited institution is a basic requirement for admission as a graduate student to Marshall.

- A degree earned at a non-U.S. institution, when documented as equivalent to a U.S. bachelor's degree as part of a course-by-course credential evaluation from a member of the National Association of Credential Evaluation Services (NACES), is sufficient to satisfy the Bachelor's Degree Requirement.
- An applicant who holds a master's degree or higher from an institution that is accepted and accredited, but holds a bachelor's degree that is not accepted and accredited, may file an appeal to request a waiver of the Bachelor's Degree Requirement. Appeals will be reviewed by the Office of Academic Affairs and the Dean of the applicant's proposed college, on a case-by-case basis, and will be granted on an extremely limited basis when the situation warrants. To initiate the appeal process, send a letter of request to the Graduate Admissions Office.
- An applicant who has earned a bachelor's degree outside of the United States, and has subsequently earned a graduate degree from an accepted, accredited institution in the United States, may satisfy the Bachelor's Degree Requirement by providing the official transcript for the graduate degree earned in the United States and official transcripts for all subsequent degrees earned or attempted, along with all other required application materials.
- There are limited exceptions to the Bachelor's Degree Requirement for students enrolled in the Doctor of Pharmacy program and those students participating in approved articulated programs of study offered by Marshall and a collaborating accepted, accredited institution of higher education. Please contact the Graduate Admissions Office for information in these cases.

English Proficiency Requirement

All applicants, regardless of citizenship, must provide proof of English Language Proficiency to be considered for admission to Marshall University. Minimum standardized exam scores for undergraduate English proficiency are listed below. If one or more of the exemption criteria is met, applicants may be considered exempt from providing standardized exam scores for proof of English proficiency.

Exam Requirements:
TOEFL iBT: 80
IELTS: 6.5
Duolingo: 105
MELAB: 82%
PTEA: 53

Exemptions

If one of the following criteria are met, exam scores will not be required, and the proof of English proficiency requirement will be met:

- Completion of the equivalent to a United States post-secondary degree from an accepted, accredited institution in an approved country where the primary language is English. (See list here

(https://www.marshall.edu/international-admissions/proof-of-english-proficiency/).)

- One year of full-time study (24 Undergraduate or 18 Graduate credit hours) earned at a United States-accepted and accredited university.
- Transfer credit equivalent to ENG 101 from an accepted, accredited institution with grade of C or better.
- Successful completion of an approved ESL program.

Transcript requirement

One official copy of an undergraduate transcript showing the degree earned and the date on which it was conferred must be sent directly from the Registrar's Office of the applicant's undergraduate institution to the Graduate Admissions Office before the application will be reviewed.

Transcripts bearing the stamp "Issued to Student", transcripts marked as unofficial, hand-delivered transcripts, transcripts mailed or handled by the student, faxed transcripts, or transcripts issued to third parties cannot be accepted.

Certain degree programs may require that additional transcripts, up to all official transcripts from all institutions previously attended, must be directly from the issuing institution to the Graduate Admissions Office.

Non-US Institutions: Marshall University requires a course-by-course evaluation for each post-secondary academic credential earned outside the US by either a member of the National Association of Credential Evaluation Services (NACES – www.naces.org/members (https://www.naces.org/members/)) or Association of International Credential Evaluators (AICE - https://aice-eval.org/endorsed-members/).

Please request the evaluation be sent directly to Marshall University at international@marshall.edu or via the evaluation company's portal for Marshall University.

All materials submitted in support of an application for admission become the property of Marshall. Materials will not be returned or released to the applicant or to third parties.

Any student admitted on the basis of false and/or incomplete information is subject to immediate dismissal along with possible disciplinary action.

In some programs, applicants may be granted conditional admission as described under Conditional Enrollment in this catalog.

Poor academic performance in prior graduate work may serve as the basis for the denial of admission to a graduate degree program, at the discretion of the program faculty.

Standardized Examinations

The Graduate Record Examination (GRE), Graduate Management Admissions Test (GMAT), or other standardized examinations may be required prior to admission. Specific exam requirements are indicated in each program or departmental description in later sections of this catalog. A master's level academic program may waive the standardized exam requirement for applicants who have earned a master's degree from an accepted, accredited institution. Certain programs may waive standardized exam scores for additional reasons as documented in the admissions language for the program in this Catalog. Ultimate responsibility for this decision rests with the program faculty.

The ETS code for Marshall University is 5396. Exam scores must be sent by the appropriate testing agency directly to:

Marshall University
Graduate Admissions Office
One John Marshall Drive
Huntington, WV 25755

For complete information regarding standardized examinations and the services provided by the Marshall University Testing Center, please see https://www.marshall.edu/testing-center/.

Duplicate Degrees

A student who has earned a graduate degree at a certain level (e.g. Master's or Doctorate) may not enroll as a degree-seeking student in a degree at Marshall in the same field at the same level. This restriction also applies to degrees earned at non-U.S. institutions which are evaluated to be equivalent to a degree program at Marshall.

The Graduate Admissions Office will notify students if the level and field of the degree to which they are applying is the same as the level and field of a degree which the student has earned.

If there is a substantial difference between the degree already earned and the degree the applicant is requesting, the applicant may appeal for an exception to the Duplicate Degree policy by writing a letter to the Graduate Admissions Office. The appeal will be reviewed by the Dean of the academic college and the Assistant Provost for Graduate Studies.

Admission of Students Requiring a Visa to Study In the United States

Marshall is authorized by the U.S. Department of Homeland Security to enroll non-immigrant visa students. International students must have earned the equivalent of a U.S. bachelor's degree or higher from an accepted, accredited institution, as described in the section *Bachelor's Degree Requirement* and demonstrate English proficiency as described in the section *English Proficiency Requirement*.

In most circumstances, an applicant must be fully admitted to a degree program in order for an I-20 form to be issued, or must be fully admitted as a transient student for a DS-2019 form to be issued. Please contact the International Admissions office with questions about other admission types.

How to Apply: For Applicants Requiring a Visa to Study in the United States

1. **Meet Admission Requirements**
   Review the admission requirements of the degree program you have selected to determine if you meet the requirements for admission. Admission requirements for each program are listed under Admissions in the entry for each program in this Catalog.
2. **Understand the Admission Process**
   The Graduate Admissions Office will review your application to ensure the application is complete and that you have met

the minimum institutional requirements for admission. Your completed application and supporting materials are then sent to the degree program you selected on your application for an admission decision.

3. Complete and Submit the Graduate Application for Admission **(**https://www.marshall.edu/international-admissions/international-admissions-requirements/#apply**)**
(Multiple graduate student options available)

   Admission to a graduate program requires a bachelor's degree from an accepted, accredited institution. Many graduate programs have additional requirements. For information on program-specific requirements, please visit the appropriate section of the Marshall University Graduate Catalog (https://catalog.marshall.edu/graduate/programs-az/).

   After an application is submitted, an applicant will see a list of required materials on the application portal homepage.

   The application may require a non-refundable application fee. Please note that this fee cannot be refunded in the event you are not accepted, are unable to obtain a student visa, or are unable to enroll or attend classes.

   The application fee may be paid with a credit card online through the application portal or by contacting Graduate Admissions at 1-304-696-4723. A processing fee will be charged for each credit or debit card transaction. VISA, MasterCard, Discover and American Express credit cards are accepted. Additional payment methods including check and wire transfer may be available. Please contact the Office of the Bursar at bursar@marshall.edu for additional information.

4. **Provide Supporting Documents**
   All applicants must submit all required documents to be considered for admission.

Official NACES Evaluation or AICE Evaluation (https://www.marshall.edu/international-admissions/international-admissions-requirements/#NACES) of all required college-level coursework if the school is outside the United States. Marshall University requires a course-by-course evaluation for each post-secondary academic credential earned outside the US by either a member of the National Association of Credential Evaluation Services (NACES – www.naces.org/members (https://www.naces.org/members/)) or Association of International Credential Evaluators (AICE - https://aice-eval.org/endorsed-members/).

Please request the evaluation be sent directly to Marshall University at international@marshall.edu or via the evaluation company's portal for Marshall University.

Transcripts from U.S. institutions do not require a NACES evaluation. These transcripts from U.S. schools must be sent directly by the registrar of the issuing institution to the Marshall University Graduate Admissions Office.

Official Proof of English Proficiency

All applicants, regardless of citizenship, must provide proof of English Language Proficiency as described in the section English Proficiency Requirement.

If alternate documents are required, they will be listed on your application portal.

All documents must be received directly from the issuing source to be considered official. We may be able to verify some English examinations online once an unofficial copy is received. Please refer to the Official Credential Policy below for more details.

Standardized Examination Scores

Some programs will not consider applications without an official score report from the GRE, GMAT or other standardized examination as described in the section *Standardized Examination Scores*. The ETS code for Marshall University is 5396.

International Credential Submission

Applicants should log in to the application portal, review the required application materials on the checklist, and upload the materials within the portal. For documents or application materials sent directly from a third party, such as a NACES, AICE member company, or a testing agency, the NACES/AICE member company or testing agency should send those electronically to international@marshall.edu or upload them directly through the company or testing agency portal.

For applicants who studied outside the US, Marshall University reserves the right to accept official credentials directly from a limited number of third-party agencies that have been approved by the university. Additional or alternate admission credentials may be accepted at the discretion of the Graduate Admissions Office depending on the applicant's country of origin. Please contact International Admissions at international@marshall.edu for details regarding specific admission requirements for applicants from your country.

Application Deadlines for Applicants Who Require a Visa to Study in the United States

- June 15 - for students applying to the fall term beginning in August
- October 15 - for students applying to the spring term beginning in January
- March 15 - for students applying to the summer term

Certain programs may have application deadlines that are earlier than the ones provided above. In those cases, an applicant must meet the program's deadline to be considered for admission. These deadlines are described in the *Admission Requirements* section of the entry for each program in this Catalog.

Finalize Your Plans

Each admitted student will receive a letter of acceptance and a list of items needed to issue the I-20 or DS-2019 form. Once all necessary items are received, Marshall will issue the I-20 or DS-2019 form, which is used to apply for a student visa at a United States Embassy or Consulate. Marshall will also send accepted students a housing application and a form to notify Marshall of the expected date of arrival. Additional pre-departure and orientation information is available at www.marshall.edu/iss (https://www.marshall.edu/international-admissions/admitted-students-first-steps/).

An applicant who is not able or chooses not to attend in the term for which they applied should contact the Graduate Admissions Office by emailing graduateadmissions@marshall.edu. The application term will be updated to the term when the applicant will be able to attend. The same application materials are acceptable for the next two

terms, including summer terms. After two terms, a new application is required.

Residency Classification for Admission and Fee Purposes

Requests for changes in residency status for new students will be evaluated by the Office of Admissions provided a completed residency application with all required supporting documentation is submitted by the end of the first week of the term of admission. Contact admissions@marshall.edu for more information. Thereafter, all requests for changes in residency status for currently enrolled students will be evaluated by the Office of the Registrar for subsequent terms. Contact registrar@marshall.edu for more information.

Residency decision will be based on West Virginia Higher Education Policy Commission Title 133, Series 25, "Residency Classification for Admission and Fee Purposes".

TITLE 133
PROCEDURAL RULE
WEST VIRGINIA HIGHER EDUCATION POLICY COMMISSION

SERIES 25
RESIDENCY CLASSIFICATION FOR ADMISSION AND FEE PURPOSES

1.1. Scope. -- Rule regarding residency classification of students for admission and fee purposes. 1.2. Authority. -- West Virginia Code §§18B-10 and 18B-2B-6.
1.3. Filing Date. – March 11, 2019.
1.4. Effective Date. – April 11, 2019.
1.5. Repeal of Former Rule. -- Repeals and replaces Title 133, Series 25 which had an effective date of June 9, 2017.

§133-25-2. Classification for Admission and Fee Purposes.

2.1. Students enrolling in a West Virginia public institution of higher education shall be assigned a residency status for admission, tuition, and fee purposes by the institutional officer designated by the President. In determining residency classification, the issue is essentially one of domicile. In general, the domicile of a person is that person's true, fixed, permanent home and place of habitation. The decision shall be based upon information furnished by the student and all other relevant information. The designated officer is authorized to require such written documents, affidavits, verifications, or other evidence as is deemed necessary to establish the domicile of a student. The burden of establishing domicile for admission, tuition, and fee purposes is upon the student.

2.2. If there is a question as to domicile, the matter must be brought to the attention of the designated officer at least two (2) weeks prior to the deadline for the payment of tuition and fees. Any student found to have made a false or misleading statement concerning domicile shall be subject to institutional disciplinary action and will be charged the nonresident fees for each academic term theretofore attended.

2.3. The previous determination of a student's domiciliary status by one institution is not conclusive or binding when subsequently considered by another institution; however, assuming no change of facts, the prior judgment should be given strong consideration in the interest of consistency. Out-of-state students being assessed resident tuition and fees as a result of a reciprocity agreement may not transfer said reciprocity status to another public institution in West Virginia.

§133-25-3. Residence Determined by Domicile.

3.1. Domicile within the state means adoption of the state as the fixed permanent home and involves personal presence within the state with no intent on the part of the applicant or, in the case of a dependent student, the applicant's parent(s) to return to another state or country. Residing with relatives (other than parent(s)/legal guardian) does not, in and of itself, cause the student to attain domicile in this State for admission or fee payment purposes. West Virginia domicile may be established upon the completion of at least twelve (12) months of continued presence within the state prior to the date of registration: Provided, That such twelve (12) months' presence is not primarily for the purpose of attendance at any institution of higher education in West Virginia. Establishment of West Virginia domicile with less than twelve (12) months' presence prior to the date of registration must be supported by evidence of positive and unequivocal action. In determining domicile, institutional officials should give consideration to such factors as the ownership or lease of a permanently occupied home in West Virginia, full-time employment within the state, paying West Virginia property tax, filing West Virginia income tax returns, registering of motor vehicles in West Virginia, possessing a valid West Virginia driver's license, and marriage to a person already domiciled in West Virginia. Proof of a number of these actions shall be considered only as evidence which may be used in determining whether or not a domicile has been established. Factors militating against the establishment of West Virginia domicile might include such considerations as the student not being self-supporting, being claimed as a dependent on federal or state income tax returns or on the parents' health insurance policy if the parents reside out of state, receiving financial assistance from state student aid programs in other states, and leaving the state when school is not in session.

§133-25-4. Dependency Status.

4.1. A dependent student is one (1) who is listed as a dependent on the federal or state income tax return of his/her parent(s) or legal guardian or who receives major financial support from that person. Such a student maintains the same domicile as that of the parent(s) or legal guardian. In the event the parents are divorced or legally separated, the dependent student takes the domicile of the parent with whom he/she lives or to whom he/she has been assigned by court order. However, a dependent student who enrolls and is properly classified as an in-state student maintains that classification as long as the enrollment is continuous and that student does not attain independence and establish domicile in another state.

4.2. A nonresident student who becomes independent while a student at an institution of higher education in West Virginia does not, by reason of such independence alone, attain domicile in this state for admission or fee payment purposes.

§133-25-5. Change of Residence.

5.1. A person who has been classified as an out-of-state student and who seeks resident status in West Virginia must assume the burden of providing conclusive evidence that he/she has established domicile in West Virginia with the intention of making the permanent home in this State. The intent to remain indefinitely in West Virginia is evidenced not only by a person's statements, but also by that person's actions. In making a determination regarding a request for change in residency status, the designated institutional officer shall consider those actions referenced in §133-25-3 of these rules. The change in classification, if

deemed to be warranted, shall be effective for the academic term or semester next following the date of the application for reclassification.

§133-25-6. Military

6.1. An individual who is on full-time active military service in another state or a foreign country or an employee of the federal government shall be classified as an in-state student for the purpose of payment of tuition and fees: Provided, That the person established a domicile in West Virginia prior to entrance into federal service, entered the federal service from West Virginia, and has at no time while in federal service claimed or established a domicile in another state. Sworn statements attesting to these conditions may be required. The spouse and dependent children of such individuals shall also be classified as in-state students for tuition and fee purposes.

6.2. Persons assigned to full-time active military service in West Virginia and residing in the state shall be classified as in-state students for tuition and fee purposes. The spouse and dependent children of such individuals shall also be classified as in-state students for tuition and fee purposes.

6.3. Any student living in West Virginia and receiving education or vocational rehabilitation benefits from the U.S. Department of Veterans Affairs shall be charged in-state tuition and fees to attend a West Virginia public institution of higher education so long as such student is considered a "covered individual" as described in 38 U.S.C. §3679, as in effect at any time.

§133-25-7. Aliens.

7.1. Students who meet the domiciliary requirements noted in Sections 3, 4, and 5 of this policy, and who are U.S. Permanent Resident Aliens, Political Asylees or Political Refugees, or who hold an A, E, G, H, I, L, O, P, R, TD, TN, U, or V visa, may apply to be reviewed for in-state residency for tuition purposes.

7.2. Students who hold B, C, D, F, J, K, M, or Q visas are not eligible for establishing in-state residency for tuition purposes.

7.3. Students who meet the domiciliary requirements and who are the beneficiary of a pending I-485 application to adjust status to permanent resident may apply to be reviewed for in-state residency for tuition purposes.

§133-25-8. Former Domicile.

8.1. A person who was formerly domiciled in the State of West Virginia and who would have been eligible for an in-state residency classification at the time of his/her departure from the state may be immediately eligible for classification as a West Virginia resident provided such person returns to West Virginia within a one (1) year period of time and satisfies the conditions of §133-25-3 of these rules, regarding proof of domicile and intent to remain permanently in West Virginia.

§133-25-9. Appeal Process.

9.1. Each institution shall establish procedures which provide opportunities for students to appeal residency classification decisions with which they disagree. The decisions of the designated institutional official charged with the determination of residency classification may be appealed in accordance with appropriate procedures established by the president of the institution. At a minimum, such procedures shall provide that:

9.1.a. An institutional committee on residency appeals will be established to receive and act on appeals of residency decisions made by the designated institutional official charged with making residency determinations.

9.1.a.1. The institutional committee on residency shall be comprised of members of the institutional community, including faculty and at least three, in any event, an odd number. The student representative(s) shall be appointed by the president of the institutional student government association while the faculty representative(s) shall be selected by the campus-wide representative faculty organization.

9.1.a.2. The student contesting a residency decision shall be given the opportunity to appear before the institutional committee on residency appeals. If the appellant cannot appear when the committee convenes a meeting, the appellant has the option of allowing committee members to make a decision on the basis of the written materials pertaining to the appeal or waiting until the next committee meeting.

9.1.b. The residency appeal procedures will include provisions for appeal of the decision of the institutional committee on residency appeals to the president of the institution.

9.1.c. Residency appeals shall end at the institutional level.

Financial Information: Tuition, Fees, and Financial Assistance

Fees

Tuition and fee costs are based on the college in which the major is housed and the specific program. For a complete schedule of tuition and related fees for the current year, please visit www.marshall.edu/tuition (http://www.marshall.edu/tuition/).

The university and its governing board reserve the right to change fees and rates without prior notice. Fee assessments are calculated on student level, not course level.

Please note: All fee listings in the fee section of this catalog show the rates authorized and in effect for the fall semester of the 2025-2026 academic year.

Board Rates: for more details visit https://www.marshall.edu/housing/residence-hall-info/rates/

Payment of Fees

Tuition fees for a regular semester, a Summer Term, an Intersession, and any special class are due and payable to the Office of the Bursar in accordance with dates established and listed on the Marshall University website at www.marshall.edu/bursar (http://www.marshall.edu/bursar/). If you do not pay your enrollment fees on or before the due date, your registration will be cancelled and you will be subject to withdrawal from the university (see Withdrawal/

Reinstatement Policy below). Do not depend on receiving a bill from the university in the mail. It is always your responsibility to know when enrollment fees are due and to pay them by that time. If you have not paid your enrollment fees by the official due date you must obtain permission from the appropriate academic dean and the Office of the Registrar to register.

Student deferred payment plans for tuition will be offered for the fall and spring semester. All available financial aid from the term must be credited to the student's account prior to determining the amount available for deferral. Contact the Office of the Bursar for current deferred payment plan information. A student's residence services fees (room and board) are due at a semester rate payable in accordance with dates established by the Department of Housing and Residence Life.

You can pay fees by VISA, American Express, MasterCard or Discover by using Marshall Student Account Center on myMU. Credit card payments are also accepted at the Office of the Bursar, 101 Old Main.

If you are a recipient of financial aid through the university's loan or scholarship program, the university's Department of Intercollegiate Athletics, or any governmental agency, or by private loan or scholarship, you must complete arrangements for payment through the Director of Student Financial Assistance in 116 Old Main and the University Bursar in 101 Old Main. (See Student Financial Assistance that follows.)

Your registration is not complete until all fees are paid.

Your registration will be cancelled if the bank does not honor your check for payment of registration fees. A charge of $25.00 will be made for each check returned unpaid by the bank.

A student who has a financial obligation to the university cannot engage in any registration activity until the obligation is satisfied. Should the obligation remain unpaid the obligation may be assigned to a state-authorized collection agency.

A student who withdraws from the institution by following proper withdrawal procedures will receive refunds of fees paid in accordance with the refunding policy.

A student who is required to withdraw from the institution for disciplinary reasons may not receive refunds of fees paid.

Withdrawal/Reinstatement Policy for Nonpayment of Enrollment and Residence Hall Fees

1. Through late registration each semester, a schedule of withdrawal for nonpayment will be included on the bursar's office website at www.marshall.edu/bursar (http://www.marshall.edu/bursar/). Following late registration, the Bursar will send written notification to the student advising of administrative withdrawal for nonpayment of Enrollment or Residence Hall Fees.
2. Upon notice from the Bursar, the Registrar will initiate a complete withdrawal for a student not paying fees. The withdrawal will be for "Administrative-Nonpayment of Enrollment or Residence Hall Fees."
3. The Registrar will notify the instructor that the student should not be permitted to continue attendance in the class.
4. If the student fulfills the financial obligation, the Bursar's Office will notify the student and his/her academic dean. The academic dean will have discretion to approve registration. If the dean approves, the student, the instructors, and the Registrar will be notified in writing immediately.
5. Upon receipt of notice from the academic dean, the Registrar will initiate the procedure to register the student in the courses for which the student was enrolled at the time of withdrawal.
6. A student who does not meet the financial obligation for enrollment and residence hall fees will have all entries of that registration erased on the Registrar's permanent record.
7. A student who owes a financial obligation to the university will not be permitted to enroll in subsequent semesters or terms until the obligation is paid.
8. If a student disputes an administrative withdrawal, he/she may file an appeal with the Student Grievance Board through the Office of Student Affairs. (The Student Grievance Board is a subcommittee of the Student Conduct and Welfare Committee.) This appeal must be filed before the effective date of withdrawal established by the Bursar. The administrative withdrawal will be suspended until the President of the University acts upon the recommendation of the Student Grievance Board.

Withdrawal/Reinstatement for Other Financial Obligations

1. Failure to fulfill other types of financial obligations with proper procedure may result in administrative withdrawal from the university.
2. Upon notice from the Bursar, the Registrar will initiate a complete withdrawal for a student not paying financial obligations. The withdrawal will be "Administrative-Nonpayment of Financial Obligations" and will be dated with the effective date of processing of the withdrawal.
   Under these conditions, procedures will be followed as outlined above, items 3, 4, & 5, under "Withdrawal/Reinstatement Policy for Nonpayment of Enrollment and Residence Hall Fees."
3. Students who do not meet these "Other Financial Obligations" and who are administratively withdrawn from the university will receive the grade determined by the withdrawal policy in effect at the time the administrative withdrawal was initiated.
4. A student who owes other types of financial obligations to the university will not be permitted to enroll in subsequent semesters until the obligation is paid.
5. If a student disputes an administrative withdrawal, he/she may file an appeal with the Student Grievance Board through the Dean for Student Affairs. (The Student Grievance Board is a subcommittee of the Student Conduct and Welfare Committee). This appeal must be filed before the effective date of withdrawal established by the Bursar. The administrative withdrawal will be suspended until the President of the University acts upon the recommendation of the Student Grievance Board.

Public Law 115-407, Sect 103

Effective August 1, 2019:

For students utilizing Chapter 31 VA Veteran Readiness and Employment or utilizing Chapter 33 Post 9-11 VA education benefits, while payment to the institution is pending from the VA, Marshall University guarantees:

- Enrollment in the semester for which VA payment is pending;
- Access to registration for the subsequent semester;
- No late fees assessed for amount pending payment by VA;
- Access to any resources (access to classes, libraries, or other institutional facilities) available to other students who have satisfied their tuition and fee bills to the institution;
- Borrowing additional funds will not be required.

To qualify, by or on the first day of the semester a student must:

- Present to the Office of the Registrar a VA Certificate of Eligibility issued in the name of the student;
- Provide written request to be certified by completing the form at: www.marshall.edu/registrar/military-connected/ (https://www.marshall.edu/registrar/military-connected/);
- Use one of the two VA benefits, Chapter 31 or Chapter 33, as noted.

Costs which are the responsibility of the student, such as tuition and fees not billable to VA, or costs for dormitory and meal plans, are not covered under the provision established by PL 115-407, Sec. 103. Students using Post 9-11 benefits at *less than 100% eligibility* are responsible to contact the Office of the Bursar to make payment arrangements on the amount of tuition not anticipated to be paid by the VA. Students are responsible to make payment arrangements for dorm and meal plans, if applicable.

The provision established by PL 115-407, Sec. 103, ends 90 days after tuition and fees are billed to VA whether or not VA has issued payment to the University. At that time, the University can hold the student liable for the billable tuition and fees unpaid by VA, place a registration hold for any outstanding amount billed to VA, or withdraw the student for non-payment of the billable tuition and fees not paid by VA. Ultimately, the student does agree to assume and pay any and all costs associated with said enrollment not paid by the VA directly to the University.

Refund Procedures

Enrollment fees (tuition fees) will be refunded during the period designated by the Office of the Registrar for Registration, Late Registration, and Schedule Adjustments for a regular semester or a summer term and published on the bursar's office website at www.marshall.edu/bursar (http://www.marshall.edu/bursar/). Enrollment fees (tuition fees) will be refunded to students for:

1. *Schedule Adjustments* - Students who drop one or more classes through the end of the Late Registration period shall be eligible for a full reduction of tuition and fees of the dropped course(s), provided that the remaining tuition and fee assessment falls below twelve credit hours for undergraduate students, nine credit hours for graduate students during a fall or spring term, or six hours for graduate students during the summer term.
2. *Complete Withdrawals* - Students initiating a complete withdrawal from the University shall receive a reduction in tuition and fees calculated using the following schedule, in accordance with Title 133 Legislative Rule, Series 32, Section 6.1:

   During the first 10% of the term, 90% reduction,
   From 11% to 25% of the term, 75%,
   From 26% to 50% of the term, 50%,
   After 50% of the term is completed, no reduction in tuition and fees will occur.

   Should the percentage calculation identify a partial day, the entire day should be included in the higher refund period.
3. *Course Withdrawals after Late Registration* - Students who do not officially withdraw from all classes at the University shall not be eligible for a reduction in tuition and fees.
4. Students receiving financial assistance covered by Title IV, who officially withdraw shall receive a refund in accordance with the Higher Education Act. See the following section.

Return of Title IV Funds Policy

See section under "Student Financial Assistance."

Cancellation of Class

When it becomes necessary to cancel a class by administrative and/or faculty action, a student is granted a full refund of the fee for the class cancelled unless he/she registers in another course of like value in terms of semester hours. This action does not apply to withdrawals due to disciplinary action or withdrawals due to nonpayment of financial obligations.

Housing and Residence Life

Cancellation and Refund Policy for Residence Services

Cancellations of the Housing Contract by those not planning to enroll in the University or reside on campus must be received in writing by the Department of Housing and Residence Life on or before May 15th. Such cancellations will result in a refund of $100.00 of the reservation deposit. Cancellation postmarked after the 15th from individuals who do not enroll in the University or reside on campus will result in a forfeiture of the entire $200.00 reservation deposit. Individuals who complete a contract and who enroll in the University (academic classes) will be expected to fulfill their obligations for the period specified. For contracts commencing for the Spring or Summer terms, cancellations postmarked 30 days before the opening of housing will result in a $100.00 refund. Cancellations postmarked after that date will result in a forfeiture of the entire $200.00 reservation deposit.

Voluntary withdrawal from the University and, in turn, housing and food service prior to the opening of the residence halls will result in a full refund less the $200.00 reservation deposit. Complete withdrawal from the University and housing and food service between opening day and the first Friday will result in a refund of fifteen weeks room and board. Withdrawals after the first Friday will result in a forfeiture of all monies paid for a room and board plan.

Students whose residency is terminated automatically (due to violations of Code of Conduct or Residence Hall policies) forfeit all monies paid for that semester and remain liable for any unpaid room and meal plan balances at the time of termination. Students will be responsible for any interest, collection and reasonable attorney's fees associated with the collection of delinquent accounts.

Students who are denied admission, declared academically ineligible to return, or are unable to return for medical reasons, will be refunded on a prorated basis.

Refunds of the enrollment fee only to students called to armed services will be processed in accordance with policy established by the Office of the Registrar.

Late fees are nonrefundable.

Tuition And Enrollment Fees For Graduate Students

Regular Semester Fees

Tuition	Resident Rates	Metro Rates[1]	Non-Resident Rates
Base Tuition & Fees	4,812.00	7,965.00	11,060.00
College of Engineering and Computer Sciences	5,400.00	8,830.00	11,888.00
College of Arts and Media Fine Arts	5,052.00	8,385.00	11,490.00
College of Fine Arts Journalism	5,052.00	8,168.00	11,268.00
College of Business	5,146.00	8,490.00	11,598.00
College of Education and Professional Development	4,862.00	8,015.00	11,110.00
College of Health Professions	5,094.00	8,630.00	11,727.00
College of Health Professions - Comm. Disorders and Dietetics	5,212.00	8,759.00	11,854.00
College of Health Professions - Kinesiology	5,212.00	8,759.00	11,854.00
College of Health Professions - Nursing	5,376.00	8,934.00	12,029.00
College of Liberal Arts	4,962.00	8,165.00	11,235.00
College of Science	5,002.00	8,173.00	11,286.00
Psychology Doctorate	5,907.00	9,033.00	12,542.00
College of Education and Professional Development - EdD/EdS/ Programs with clinicals	4,927.00	8,080.00	11,175.00
Forensic Science Program	5,712.00	9,171.00	12,662.00
Biomedical Science Program – includes Biomedical Research and CTS (Clinical and Transitional Science, M.S.)	6,068.00	8,251.00	12,011.00
Master of Public Health	7,691.00		15,991.00
SOM - Physician Assistant	10,590.00		15,770.00
Physical Therapy - Doctorate	7,696.00		12,245.00
SOM - Med School Year 1	13,831.00		31,123.00
SOM - Med School Year 1 (Summer)	12,807.00		29,599.00
SOM - Med School Year 2	9,550.00		21,275.00
SOM - Med School Year 2 (Summer)	9,526.00		21,251.00
SOM - Med School Year 3	9,550.00		21,275.00
SOM - Med School Year 3 (Summer)	9,526.00		21,251.00
SOM - Med School Year 4	9,550.00		21,275.00
SOM - Med School Year 4 (Summer)	9,526.00		21,251.00
Pharmacy (PharmD) Year 1	11,584.00		20,685.00
Pharmacy (PharmD) Year 2	12,289.00		20,311.00
Pharmacy (PharmD) Year 3	12,069.00		19,959.00
Pharmacy (PharmD) Year 4	8,523.00		13,832.00
Pharmacy (PharmD) Year 4 (Summer)	8,499.00		13,808.00
Pharmacy (MS)	6,472.00		10,580.00
Pharmacy (MS) (International)			13,256.00

[1] **Effective Fall 2025:** The metro counties have been expanded. Please access www.marshall.edu/metro (https://www.marshall.edu/metro/) to view all counties.

Special Student Fees For 2025-2026

Fee	Amount
Application Fees*	
Undergraduate	40.00
Graduate	40.00
Undergraduate/Graduate – Transfer	50.00
Undergraduate – Readmission	25.00
School of Medicine – Resident	75.00
School of Medicine – Non-Resident	100.00
School of Nursing	30.00
Master of Public Health	30.00
School of Pharmacy	100.00
Dietetic Internship Program	25.00
International Undergraduate Application/Express Mail Fee	150.00
International Graduate Application/Express Mail Fee	150.00
CLEP/DANTES Testing	25.00
Music Instrument Late Fee	10.00
Course-Specific Fees	
SOP-MSPS – Non-major Course Fee (per 1 hour course)	315.00
SOP-MSPS – Non-major Course Fee (per 2 hour course)	630.00
SOP-MSPS – Non-major Course Fee (per 3 hour course)	945.00
SOP-MSPS – Non-major Course Fee (per 4 hour course)	1,260.00
SOP - Special Certification Course	250.00
COHP-MPH – Non-major Course Fee (per 1 hour course)	663.75
COHP-MPH – Non-major Course Fee (per 2 hour course)	1,327.50
COHP-MPH – Non-major Course Fee (per 3 hour course)	1,991.00
COHP-MPH – Non-major Course Fee (per 4 hour course)	2,655.00
COHP-SOK – Activity Course Fee	40.00
COHP-SOK – Scuba Fee	200.00
COHP WVU Health Dietetics Internship (per credit hour)	2,000.00
COHP St. Mary's Program Fee (per credit hour)	340.00
COHP St. Mary's Program fee (per semester)	4,080.00
COHP St. Mary's Lab Fee	100.00
COEPD – EdD/EdS Advanced Program	50.00
COEPD - Counseling (One-time software fee)	500.00
COEPD - Music Education Majors Music Instrument Rental	30.00
Aviation – Solo Flight Lab; incl 15 flight hours	6,295.00
Aviation – Private Pilot Cert ASEL Lab; incl 20 flight hours	8,050.00
Aviation – Instrument Certification Lab; incl 36 flight hours	14,448.00
Aviation – Commercial Phase I Lab; incl 52.5 flight hours	17,647.00
Aviation – Commercial Phase II ASEL Lab; incl 43.5 flight hours	14,345.00
Aviation – Initial CFI ASEL Lab; incl 20 flight hours	7,224.00
Aviation – CFII Lab; incl 10 flight hours	4,231.00
Aviation – Commercial AMEL Add-on Lab; incl 12 flight hours	7,018.00
Aviation Program Additional Resource Fees	
Aviation – Cirrus SR20 Per Additional Hour	320.00
Aviation – Twin Engine Aircraft Per Additional Hour	516.00
Aviation – Frasca SR20 AATD Simulator Per Additional Hour	52.00
COHP Doctor of Nursing Practice Program (per credit hour)	660.00
COHP Doctor of Nursing Practice Program (per semester)	5,940.00
COHP Distance Dietetic Internship MS Program (per credit hour)**	750.50
COHP Distance Dietetic Internship MS Program (per semester)**	6,754.00
MBA – Online Program Fee	450.00
Business DBA Program – per credit hour	950.00
Business DBA Program - per semester	8,550.00
Distance Tuition – Undergraduate (per credit hour)	391.25
Distance Tuition – Undergraduate (per semester)	4,694.00
Distance Tuition – Graduate (per credit hour)	534.75
Distance Tuition – Graduate (per semester)	4,812.00
E-Delivery Course Fee (per credit hour)	50.00
Electronic Course Fee-High School (per credit hour)	25.00
Electronic Course Fee-Undergrad/WVROCKS (per credit hour)	250.00
High School Dual Enrollment – Resident – Course on campus (per credit hour)	25.00

Ohio High School STEM Program (per credit hour)	25.00
Intensive English Program UG - per credit hour (LZ91)* **	375.00
Intensive English Program UG – per semester (LZ91)* **	4,500.00
Intensive English Program GR - per credit hour (GZL9)* **	500.00
Intensive English Program GR – per semester * **	4,500.00
Intensive English Program Special Weekly Rate	322.00
Intensive English Program Online UG - per credit hour (LZ91)	266.75
Intensive English Program Online UG - per semester (LZ91)	3,200.00
Intensive English Program Online GR - per credit hour (GZL9)	355.75
Intensive English Program Online GR – per semester (GZL9)	3,200.00
Enrollment Deposits	
Undergraduate	100.00
International	500.00
School of Pharmacy	500.00
School of Physical Therapy	500.00
Doctor of Business Administration (DBA)	2,500.00
School of Medicine – Physician Assistant	1,000.00
Graduation Fees*	
Commencement-Associate Degree	50.00
Commencement-Bachelor's Degree	50.00
Commencement-Master's Degree	50.00
Commencement-Doctoral Degree	100.00
Commencement-Professional Degree	100.00
Commencement-Certificate	15.00
Diploma Replacement-Certificate	15.00
Diploma Replacement-Associate, Bachelor's and Master's	50.00
Diploma Replacement-Doctoral and Professional	100.00
Housing Miscellaneous Fees	
Transfer Buyout	1,000.00
Mid-Leaving Apartment Change (Studio)	250.00
Mid-Leaving Apartment Change (2 Bedroom)	350.00
Unauthorized Single Occupancy - per night	75.00
Holderby Storage Rate	60.00
Improper Check-out Fee*	75.00
Mail Box Re-Key (per lock)	30.00
Reservation Deposit	200.00
Room Re-Key (per lock)	75.00
Safe Rental Program through College Products**	
One Semester Rental	65.00
Academic Year Rental (Fall & Spring Semesters)	85.00
12- Month Rental (Fall, Spring, & Summer Semesters)	105.00
10- Weeks Summer Term	65.00
5- Weeks Summer Term	55.00
Safe Purchase	145.00
International Student Fee	200.00
Late Payment Fee*	25.00
Meal Card/ID Card Replacement	20.00
MUGC Alternative Assessment (per credit hour)	25.00
Pharmacy – Matriculation Fee (P1 fall only)	420.00
Pharmacy – Simulation Fee (P1-P3 fall only)	350.00
Pharmacy – Practice Readiness Fee (P2 Fall only)	420.00
Pharmacy – Practice Readiness Fee (P3-P4 Fall only)	420.00
Pharmacy – iPad Fee(P1-P2 fall only)	260.00
Pharmacy – iPad Fee(P3 fall only)	200.00
Regents' BA Degree Evaluation	300.00
Regents' BA Posting Fee (per credit hour awarded)	10.00
Reinstatement Fee – Course Schedule*	25.00
Returned Check Fee	25.00
Revalidation of Credit Fee (per credit hour)	25.00
Senior Citizens Course Fee-Series 67	50.00
Student Success Fee	60.00
Study Abroad Application/ advising/shipping fee	150.00
Study Abroad Fee Registration Fee (per program)	100.00
Transcript – paper	10.00
Transcript – electronic	12.00
University College – Placement Testing Fee	35.00
Visiting Student Credential Fee – SOM	50.00

* *Non-refundable.*

** E-Delivery Course Fee (per credit hour) not included in program cost.

*** Standard auxiliary and rec center fees are assessed (excluding Intensive English Program Online).
**** Paid directly to Vendor.

Rooms And Meals

Residence Halls and Food Service Plans

The Department of Housing and Residence Life provides on-campus living space for approximately 2,500 students. Individual residence halls will accommodate between 120 and 500 students in single and double occupancy rooms, and suite-style rooms. All halls are located within walking distance of academic buildings and downtown Huntington. There is 24-hour security in every residence hall. Every student living on campus has a meal plan, a room with WIFI and cable television. Each hall is managed by an Area Coordinator with an Resident Advisor on each floor who provides the students with the best possible living and learning environment and resources.

The Landing at Marshall University offers graduate housing for students. The property consists of furnished, studio and two bedroom apartments which includes all utilities including cable and Internet. Nine and twelve month leases are available.

Marshall University requires all full-time freshman and sophomore students to live on campus. Exceptions are granted to those living within a 50-mile radius that live at home with a parent or legal guardian; individuals 21 years of age; those who are married; or those who have been high school graduates for more than two years. In order to be considered for release from the residency requirement, a release request and supporting documentation must be submitted to the Department of Housing and Residence Life by

- July 1 (Fall semester) or
- November 15 (Spring semester).

Semester Fees (16 Weeks)

Rates are subject to change.

Description	Amount
Rooms	
Buskirk Double	$3,156.00
Buskirk Single	$4,087.00
First Year North and South, Double	$4,009.00
First Year North and South, Single	$6,170.00
Marshall Commons (Gibson, Haymaker, Wellman, Willis) - Double	$3,714.00
Marshall Commons (Gibson, Haymaker, Wellman, Willis) - Single	$4,454.00
Twin Towers (East and West) - Double	$3,156.00
Twin Towers (East and West) - Single	$4,087.00
The Landing - Studio Unit (monthly fee)	$995.00
The Landing - Two bedroom Unit (monthly fee)	$1,485.00
The Landing - One bedroom in two bedroom Unit (monthly fee)	$775.00
Meal Plans	
10 Meals per Week with $500 Dining Dollars and 10 Anytime Meals	$2,259.00
10 Meals per Week with $700 Dining Dollars and 20 Anytime Meals	$2,484.00
10 Meals per Week with $935 Dining Dollars	$2,643.00
14 Meals per Week with $500 Dining Dollars and 10 Anytime Meals	$2,507.00
14 Meals per Week with $700 Dining Dollars and 20 Anytime Meals	$2,828.00
14 Meals per Week with $935 Dining Dollars	$2,990.00
175 Meals per Semester with $500 Dining Dollars	$2,406.00
175 Meals per Semester with $700 Dining Dollars	$2,632.00
175 Meals per Semester with $935 Dining Dollars	$2,879.00

Board Rates: for more details visit https://www.marshall.edu/housing/residence-hall-info/rates/.

Summer Term Fees, Subject to Change (5 Weeks): Residence Halls

Description	Amount
Twin Towers Double Occupancy	$965.00
Twin Towers Single Occupancy	$1,283.00

Early Arrival/Break Housing, Subject to Change

Description	Amount
Double Occupancy per day	$30.00
Single Occupancy per day	$40.00

Commuter Meal Plans

For a complete list of the Commuter Meal Plans visit https://marshall.sodexomyway.com/my-meal-plan/.

Student Financial Assistance

Financial Aid Application Process

To apply for financial aid, students must file the Free Application for Federal Student Aid (FAFSA) by visiting studentaid.gov/h/apply-for-aid/fafsa (https://studentaid.gov/h/apply-for-aid/fafsa/). Students must enter Marshall University's Federal School Code: 003815 in Step 4 of the FAFSA for consideration of all financial aid programs to attend Marshall University.

The priority filing date for the FAFSA is March 1 prior to the academic year the student is attending for full consideration of all federal, state and institutional financial aid programs. Students may file the FAFSA after this date; however, certain financial aid opportunities may be missed.

In addition to the FAFSA, there is a supplemental application for students who wish to apply for financial aid for the summer. Marshall University Summer Financial Aid Applications are available on the first

day of registration. Summer is a non-standard term. This requires the Office of Student Financial Assistance to collect additional information, which is not provided on the FAFSA. Summer is also considered a trailer for financial aid awarding purposes, meaning that the summer follows the completed academic year. For example, to apply for financial aid for the 2025 summer terms, the student must have a 2024 FAFSA on file and complete a 2025 Summer Financial Aid Application. Submit a request by visiting marshall.edu/sfa/application-process/summer-financial-aid-eligibility-requirements/ (https://www.marshall.edu/sfa/app-process/summer-financial-aid-eligibility-requirements/).

Eligibility Determination

Student Aid Report

As a result of filing the FAFSA, the student receives a FAFSA Submission Summary (FSS) by e-mail if an email address was provided on the FAFSA. Otherwise, the student will be sent a FSS through regular mail. Students have the ability to access their FSS by going to www.studentaid.gov (http://www.studentaid.gov). Students will need their FSA ID to access their FSS.

When students receive their FSS, Marshall University receives the results of the students' FAFSA. The needs analysis results provide a Student Aid Index (SAI), which is used to determine a student's financial aid eligibility.

Cost of Attendance

The COA that a financial aid package is based upon reflects average costs. Tuition and Fees are fixed costs for any given academic year. For actual tuition and fee costs visit the Bursar's website at www.marshall.edu/bursar (http://www.marshall.edu/bursar/).

Eligibility Confirmation and Verification

Eligibility Confirmation

Information on the student's FAFSA is checked with federal agencies to confirm that they meet basic eligibility requirements. The following student eligibility criteria are checked:

- Social Security number and citizenship status with the Social Security Administration
- Selective Service registration with the Selective Service System, if required
- Eligible non-citizenship status with the U.S. Department of Homeland Security
- Veteran Status with the U.S. Department of Veteran Affairs
- Default, disability discharge, bankruptcy, aggregate loan history statuses for federal student loans and overpayment status for federal student grants

The Office of Student Financial Assistance must also review other eligibility requirements, which include, but are not limited to:

- Admission Status
- Satisfactory Academic Progress
- Enrollment Status
- Academic Level
- Academic Major/Program
- Identity
- Unusual Enrollment Patterns
- Course Program of Study (https://www.marshall.edu/sfa/check-your-cpos/)
- Note: Federal student aid from Marshall University can only pay for classes that apply towards your degree or certificate at Marshall University. Be sure to monitor your DegreeWorks and communicate with your academic advisor to make sure you are in the right classes.

If any of these items come up as discrepant, the Office of Student Financial Assistance is required to resolve the issue. This may require the Office of Student Financial Assistance to follow up with the student to request documentation to resolve any of the eligibility issues referenced above.

Verification

Verification is the process in which Student Financial Assistance (SFA) – as dictated by federal and state regulations – compares the information reported on the FAFSA financial and other data including but not limited to the following items:

- Adjusted gross income
- U.S. Income Tax Paid
- Education credits
- Untaxed IRS distribution
- Untaxed pensions
- IRA deductions and payments
- Tax-exempt interest
- Income earned from work
- Household size
- Child support paid
- Identity/statement of educational purpose

Students who are selected for verification are sent a notification instructing them to access their financial aid records by logging into myMU.

SFA must receive all requested documentation before financial aid can be disbursed (or credited) to the student's Bursar account. If there are differences between the data the student supplied on the FAFSA and the verification documentation submitted, corrections to the FSS may be needed, and as a result the student's application will be reprocessed.

Student responsibilities are to:

- Submit all documents requested promptly utilizing the links located at: marshall.edu/sfa/forms-applications/ (https://www.marshall.edu/sfa/forms-applications/).
- Please note: In order to protect students' Personal-Identifiable Information (PII), the Office of Student Financial Aid does not retain paper documentation. Should you submit a paper document, we will scan and email this to your Marshall University email with instructions to upload this documentation to our secure dynamic forms. Please visit SFA Forms and Applications or your myMU for uploading.
- Maintain copies of all information used to file the FAFSA and of documents submitted to the Office of Student Financial Assistance

It is extremely important you respond to requests for information promptly because **finalized financial aid awards are processed in the order of file completion date**. To ensure that your financial funds disburse as scheduled at the start of the fall semester, you must be

registered for classes and submit all required documentation by July 1. You may still submit documents after July 1; however, you should be prepared to make payment arrangements with the Bursar's Office in the event your financial aid is not finalized by the billing due date.

The deadline for submitting all verification documents is 30 days prior to the end of the academic year/period you are enrolled. This designated deadline allows SFA to process and authorize disbursements within the timeframe permitted under regulations set forth for administering the federal and state financial aid programs. Failure to provide requested documentation within this timeframe will result in cancellation of your financial aid offers.

If the student has already received an award notice from Marshall University and corrections are made to the FSS after verification, the student will receive a revised award notice if his or her eligibility has changed.

Enrollment Status

Each type of financial aid (program) has specific requirements regarding enrollment status.

As a rule financial aid packages are based on full-time enrollment and the Office of SFA uses the student's enrollment status on the first day after drop/add period (usually the 8th day of the semester) to determine financial aid eligibility.

For Fall and Spring terms, graduate students enrolled in 9 or more credits are considered full-time students; graduate students enrolled between 5 and 8 credits are considered half-time students for financial aid eligibility purposes. For the summer, 6 or more credits are considered full-time for graduate students and 3 credits are considered half-time.

Professional staff development courses (560 – 564 *S/U* or *CR/NC* series) do not count toward the student's degree requirements; therefore, they cannot be calculated as enrolled hours for financial aid eligibility purposes. Only courses that apply to the student's degree may be included to consider enrollment status for federal student aid eligibility.

Academic Level Classification

Some financial aid programs have specific criteria based on the student's academic (grade) level. Graduate students taking both graduate and undergraduate courses must be enrolled in at least 5 graduate credits to receive financial aid under a graduate student classification.

Dual Enrollment & Study Abroad

Marshall University students who plan to enroll at another college or university simultaneously may have their other enrollment elsewhere considered for financial aid eligibility at Marshall University.

Students may not receive federal financial aid at more than one institution of higher education for the same courses or at the same time. Students must declare which institution is to be considered the "home school" or the institution where they will receive their degree for financial aid eligibility purposes. To be considered for financial aid as a dually enrolled student or a student taking courses elsewhere during a given semester, a consortium agreement form must be completed and approved by both Marshall University and the other school. Students may download and print a Consortium Agreement Form by visiting marshall.edu/sfa/forms-applications/ (https://www.marshall.edu/sfa/forms-applications/).

Financial Aid Satisfactory Academic Progress Policies

Graduate Students

Satisfactory Academic Progress (SAP) is the term used to define successful completion of degree requirements to maintain eligibility for federal and state financial aid. As required by regulations, Marshall University must determine whether a student is meeting SAP requirements. SAP evaluation for graduate students occurs at the conclusion of the spring semester each year. The student's entire academic history must be considered when determining SAP status irrespective of whether or not the student received financial aid. This includes transfer credit hours that apply to a Marshall University degree.

(This SAP Policy for Graduate Students is not applicable to professional students pursuing a Doctor of Medicine, Doctor of Pharmacy, or Doctor of Physical Therapy degree, but to all other graduate students enrolled in graduate certificate or degree programs.)

Requirements of the SAP Policy

To view the most recent SAP Policies for the Office of Student Financial Assistance, please visit: marshall.edu/sfa/eligibility-costs/financial-aid-satisfactory-academic-progress/ (https://www.marshall.edu/sfa/eligibility-costs/financial-aid-satisfactory-academic-progress/).

Types of Aid Available

Financial aid is funding for college education that comes from sources outside of the student's family. Gift aid and self-help aid are the two categories of financial aid. Gift aid comes in the form of grants and scholarships and usually do not have to be repaid. Self-help aid comes in the form of loans and work-study. Financial aid at Marshall University is awarded based on financial need, merit, or both. Students may receive a combination of grants, scholarships, loans, and work-study in their Financial Aid Package. Sources of funding come from Marshall University, the federal government, the state and other entities.

For current and more detailed information on types of financial aid available, please visit www.marshall.edu/sfa (https://www.marshall.edu/sfa/types-of-aid/).

Notification and Disbursement of Awards

Checking Financial Aid Records

Students may access their financial aid records by logging on to their myMU account. myMU is the student's campus web portal used to provide students with easy online access to their Marshall University records.

In order to log into myMU, students must have both their unique Marshall University username and password. Any student who has problems accessing his or her myMU records should email helpdesk@marshall.edu or call 1-877-689-8638.

Understanding Financial Aid Awards & Requirements

Online financial aid notification via the student's myMU account is the official method by which students receive information regarding their financial aid application and awards.

Email is the primary means of communication between students and the Marshall University Office of Student Financial Assistance. Emails are sent to the student's Marshall University email account. It is the student's responsibility to monitor email notifications from the Office of Student Financial Assistance as well as from other university offices. Failure to read and respond to email communications from the Office of Student Financial Assistance may result in delay or cancellation of financial aid awards.

Once you access your financial aid records within the Financial Aid Main Menu tab, you will be able to view the following topics:

- Student Requirements
- Awards Offer
- Financial Aid History
- Satisfactory Academic Progress

Disbursement of Financial Aid (or Financial Aid Crediting to your Billing Account)

The earliest financial aid may credit to students' billing accounts is 10 days before the semester begins. However, financial aid will not credit to the student's account unless all eligibility requirements have been met and verification has been completed. In addition, if the student is taking out a student loan, the student must have completed entrance loan counseling and completed a master promissory note for the respective loan program.

Pending financial aid is a temporary status and is used for financial planning purposes only. Pending financial aid allows the Bursar Office to defer payment of student's tuition, fees, residential and board payments until the financial aid is finalized and credited to the student's Bursar account. Students are responsible for making payment for the difference between bursar charges and financial aid awards by the designated due dates established by the University.

Financial aid awards are not final until they have credited to the student's account.

Payment Plan Option

Under a Marshall University payment plan, students may select to make four equal payments of their outstanding charges for the fall or spring semester after any applicable financial aid has been applied. For more information, visit www.marshall.edu/bursar (https://www.marshall.edu/bursar/).

Refunds Due to a Financial Aid Credit Balance

When financial aid for the semester/term exceeds a student's direct charges (tuition, fees, etc.) on the student bill, the student is entitled to a refund for the difference for use toward other educational expenses. The Bursar Office issues refunds to students beginning the first day of classes. Only those students whose financial aid was credited 10 days prior to the semester/term with a credit balance will receive a refund on the first day of the semester/term. Following the first day of the semester/term, it takes approximately one week after financial aid is disbursed for the Bursar Office to issue a financial aid refund to a student.

For more information about financial aid refunds visit the Bursar's website at www.marshall.edu/bursar (https://www.marshall.edu/bursar/).

Impact on Financial Aid Due to Withdrawal or Failure to Enroll

Students could jeopardize receipt of some types of aid if they are not properly enrolled at the time that financial aid funds disburse. Students may have originally been packaged as a full-time student, but at the time the funds are ready to disburse, students' enrollment status may differ. Students change in enrollment may impact the eligibility for certain funds.

If a student does not attend for a period of enrollment that he/she has been awarded financial aid, the Office of Student Financial Assistance must cancel all financial aid awards offered. Upon re-enrollment, the student may request assistance again, but, because awards are based on the availability of funds, funding may be limited.

Students who plan to withdraw from any courses during an academic term should consult with a Financial Aid Counselor. Withdrawing from courses may prevent students from making Financial Aid Satisfactory Academic Progress and affect eligibility for future financial aid assistance. Students who cease attending all courses must follow the official withdrawal procedure as defined by the Registrar's Office to obtain an official withdrawal date.

When students withdraw from all courses on or before the 60% point in time of an academic term, the Office of Student Financial Assistance is required to review their financial aid awards to determine whether financial aid funds must be adjusted in accordance with federal and state regulations. The policies on treatment of financial aid for total withdrawal are specific to each designated financial aid program and are applicable only if the student has received those particular kinds of funds. If a student received various types of financial aid, more than one policy may apply when determining revised financial aid eligibility.

Treatment of Marshall University, State & External Aid for Total Withdrawal

Adjustments to institutional and external financial aid follow the Marshall University Refund Policy. The following chart describes how institutional and external financial aid is treated whenever a student withdraws. Adjustments to state financial aid follow the chart below when the student is not a recipient of Title IV (federal) student aid. Otherwise, state aid is adjusted according to the Treatment of Title IV (Federal) Aid for Total Withdrawal, below. and is adjusted

Period of Withdrawal During a Semester	Percentage of Aid Returned to Program
During the first 10%	90%
From 11% to 25%	75%
From 26% to 50%	50%

For example, if a student withdraws at the exact midpoint of the semester, the student would have 50% of his/her tuition charge reversed. Simultaneously, if a student received an institutional scholarship for the semester in the amount of $2,000, 50% or $1,000 of this scholarship would be returned to the respective financial aid program.

Treatment of Title IV (Federal) Aid for Total Withdrawal

The federal policy for return of Title IV funds maintains that a student retains only that portion of federal aid that the student has earned based on time in attendance before withdrawal. The percentage of time that the student attended an academic term determines the amount of federal aid that must be returned to the federal government. This federally mandated policy is independent of Marshall University's institutional refund policy due to withdrawal. Marshall University is required by federal statute to recalculate federal financial aid eligibility for students who withdraw, drop out, are dismissed, or take a leave of absence prior to completing 60% of the semester or the financial aid payment period. Should the student cease to be enrolled prior to completing 60% of the semester or financial aid payment period, the Office of Student Financial Assistance applies the Federal Return of Title IV funds formula to determine whether any federal financial aid must be returned.

The Federal Return of Title IV formula is calculated as follows:

Total # of Days Student Completes Until Withdrawal/Total # of Days in the Semester or Payment Period

This formula determines the percentage of the semester completed, which is the same percentage of earned financial aid.

Funds are returned to the appropriate federal program based on the percentage of unearned aid using the following formula:

(100% of the Aid That Could be Disbursed minus the % of Earned Aid) X Total Amount of Aid That Could Have Been Disbursed

Federal student aid refunds for graduate students are returned to the following Title IV sources in the following order:

1. Unsubsidized Federal Direct Stafford Loan
2. Subsidized Federal Direct Stafford Loan
3. Graduate Federal Direct PLUS Loan
4. Federal TEACH Grant

If a student earned less financial aid than was disbursed, Marshall University is required to return the unearned portion of the financial aid to the respective federal student aid programs. In some cases, if the student was issued a federal financial aid refund, he/she may be required to return all or a portion of the federal funds.

If the student is required to return a portion or all of the loan proceeds, the calculated amount would not have to be returned through this calculation, but be repaid according to the loan's terms.

If a student qualifies for federal aid that has not yet disbursed and less aid is disbursed than earned, the student may receive a late disbursement for the difference.

When a student that has begun attendance fails to earn a passing grade (has a zero GPA) at the end of the semester, Marshall University, for federal student aid purposes, must assume that the student has unofficially withdrawn or dropped out.

If the student has unofficially withdrawn (shows zero earned hours at the end of the semester), 50% of the student's federal student aid for the term is considered unearned and may result in a reduction of federal aid. However, when Marshall University can document attendance or participation beyond the 60% point in the semester, the student may be able to retain 100% of his/her federal student aid under these circumstances.

Marshall University has an official grading policy that provides instructors with the ability to differentiate between those students who complete the course but failed to achieve the course objectives and those students who did not complete the course. The instructor is required to notify the Office of Student Financial Assistance in the case of the latter.

Voter Registration Forms

Marshall University, as a participant in Federal Title IV Student Aid programs, is required to advise you that voter registration forms are available online at https://ovr.sos.wv.gov/register/landing (https://ovr.sos.wv.gov/register/landing/).

For additional financial aid information, please contact the

Office of Student Financial Assistance
1 John Marshall Drive, Old Main Room 116
Huntington, WV 25701
Telephone 304-696-3162
Fax: 304-696-3242
E-Mail Address: sfa@marshall.edu

University Policies and Procedures

Affirmative Action Policy Statement

It is the policy of Marshall University to provide equal opportunities to all prospective and current members of the student body, faculty, and staff based on individual qualifications and merit, without regard to race, color, sex, religion, age, disability, national origin, gender identity, or sexual orientation. This nondiscrimination policy also applies to all programs and activities covered under Title IX, which prohibits sex-based and gender-based discrimination in higher education. Marshall University strives to ensure equality of opportunity and treatment in all areas related to student admissions, instructions, employment, placement accommodations, financial assistance programs and other services.

Administrative Steps for filing a Complaint Regarding a Student or Student Organization

Marshall University expects all members of its community to act in respectful and responsible ways toward one another. Marshall University is committed to providing programs, activities and an educational environment free from discrimination and harassment of any kind. To file a general complaint against a student or student organization complete the General Complaint Form (https://marshall-advocate.symplicity.com/public_report/) or contact the Office of Student Advocacy and Accountability, 2W29 Memorial Student Center, or call 304-696-2495.

Sexual Misconduct

According to Title IX, the Education Amendments Act of 1972, "No person in the United States shall, on the basis of sex, be excluded from participation in, be denied the benefits of, or be

subjected to discrimination under any education program or activity receiving Federal financial assistance." To file a complaint regarding sexual misconduct, complete the Title IX Complaint Form (https://marshall-advocate.symplicity.com/titleix_report (https://marshall-advocate.symplicity.com/titleix_report/)/) or contact the Title IX Office, 107 Old Main, 304-696-2934, titleIX@marshall.edu.

Animal and Human Subject Research

Graduate students conducting research involving experiments that utilize animals must work under the supervision of faculty advisors who have written permission from the Institutional Animal Care and Use Committee (IACUC) before the students can start the research. Information about procedures and protocol forms may be obtained from the Office of Research Integrity through its website at www.marshall.edu/ori (http://www.marshall.edu/ori/).

Graduate students who conduct research involving the use of human subjects must have the approval of the applicable Institutional Review Board (IRB), either Medical or Behavioral and Social Sciences, before starting the research and must work under the supervision of faculty advisors. Information about procedures and approval forms may be obtained at the Office of Research Integrity website at www.marshall.edu/ori (http://www.marshall.edu/ori/).

Clery Act and Title IX Educational Program

Required training for all incoming graduate students

To maintain compliance with the Clery Act and Title IX requirements, Marshall University requires all incoming graduate students to complete a sexual assault and interpersonal violence prevention education program as approved by the Vice President of Student Affairs. The training also ensures students learn of the campus resources related to sexual assault and interpersonal violence. Students who do not complete the training by the end of the 8th week of their first semester of enrollment may not register for additional courses until completing the training. Students will receive multiple notifications regarding this required training program.

Contact for Questions

If you have any questions about the training program, please contact the Title IX Office at titleix@marshall.edu.

Copyright Compliance

Marshall University complies with U.S. copyright law, which prohibits unauthorized duplication and use of copyrighted materials, including written, audio-visual, and computer software materials. Further information is available by contacting the University Libraries at library@marshall.edu.

Cross-Level Linked Courses

The Graduate Council supports the limited use of Cross-Level Linked Courses (CLLC). Cross-Level Linked Courses refer to two courses, one undergraduate and one graduate, which are offered concurrently, in the same place, with the same instructor. Cross-Level Linked Courses supported by the Graduate Council include 400/500 and 400/600 courses. The Graduate Council does not recognize or support 300/600 level courses after the spring 2024 semester. The Graduate Council encourages the general practice of having separate and distinct undergraduate and graduate courses that are not linked in most circumstances but recognizes that CLLCs may be used on a limited basis if measures are in place that identify how the undergraduate and graduate courses differ. As such, the two courses must have a separate syllabus and address all the following:

1. The graduate course must result in a deeper understanding of the course material compared to the undergraduate course with which it is Cross-level Linked.

2. The graduate course assignments must differ from those of the undergraduate course in quality/depth/rigor, and quantity. This could include a difference in reading assignments, course textbooks, projects, or assignment scope.

3. The graduate course should include greater opportunities for independent study.

4. The graduate course must have learning objectives that are written with a higher level of expectation (e.g., Bloom's Taxonomy). For instance, a greater focus on analysis, evaluation, and creation.

5. The assessment or evaluation of student performance (e.g., examination, written assignments, presentations, applied projects) should be different both qualitatively and quantitatively.

6. Course outcomes should reflect a clear distinction of academic preparation of the graduate students compared to the undergraduate students.

7. The graduate course must be commensurate in academic rigor with other graduate-level courses offered by the program or department.

8. Prerequisites should be appropriate for each course.

Education Records

The Family Educational Rights and Privacy Act (FERPA) affords students certain rights with respect to their education records. They are:

1. The right to inspect and review the student's education records within forty-five days of the day the University receives a request for access. Students should submit to the registrar, dean, head of the academic department, or other appropriate official, written requests that identify the record(s) they wish to inspect. The University official will make arrangements for access and notify the student of the time and place where the records may be inspected. If the records are not maintained by the University official to whom the request was submitted, that official shall advise the student of the correct official to whom the request should be addressed.
2. The right to request the amendment of the student's education records that the student believes are inaccurate or misleading. Students may ask the University to amend a record that they believe is inaccurate or misleading. They should write the University official responsible for the record, clearly identify the part of the record they want changed, and specify why it is inaccurate or misleading. If the University decides not to amend the record as requested by the student, the University will notify the student of the decision and advise the student of his or her right to a hearing regarding the request for amendment. Additional information regarding the hearing procedures will be provided to the student when notified of the right to a hearing.
3. The right to consent to disclosures of personally identifiable information contained in the student's education records, except to

the extent that FERPA authorizes disclosure without consent. One exception that permits disclosure without consent is disclosure to school officials with legitimate educational interests. A school official is a person employed by the University in an administrative, supervisory, academic or research, or support staff position (including law enforcement unit personnel and health staff); a person serving on the Board of Trustees; or a student serving on an official committee, such as a disciplinary or grievance committee, or assisting another school official in performing his or her tasks. A school official has a legitimate educational interest if the official needs to review an education record in order to fulfill his or her professional responsibility. Upon request, the University discloses education records without consent to officials of another school in which a student seeks or intends to enroll.

4. The right to file a complaint with the U.S. Department of Education concerning alleged failures by Marshall University to comply with the requirements of FERPA. The name and address of the office that administers FERPA are:
   Family Policy Compliance Office
   U.S. Department of Education
   600 Independence Avenue, SW
   Washington, DC 20202-4605

Graduation Vs. Commencement

Graduation and **commencement** are related, but distinct, academic milestones.

- **Graduation** refers to the **actual awarding of a degree** after the University has verified that all academic requirements have been successfully completed. This includes the posting of final grades, a comprehensive review of the student's academic record, and formal degree conferral by the University.
- **Commencement** is a c**eremonial event** held at the end of each fall and spring semester to recognize students who are candidates for graduation. Participation in commencement, or submission of an application for graduation, does **not** guarantee that a student has graduated.

All degrees are subject to final review after the term concludes. A student is **not officially graduated** until their degree is conferred by the Registrar's Office and recorded on the student's academic transcript.

Students are encouraged to monitor their degree progress through DegreeWorks and consult with their academic advisor to ensure they are on track to meet all graduation requirements.

Hazardous Substances

Graduate students who will be using, or who will be generating, hazardous substances in their research must work under the supervision of faculty advisors who obtain permission for such research through the appropriate college safety committee. The college will arrange for proper disposal of these materials. Proposals must be submitted to the appropriate safety committee for approval.

Integrity In Scientific Research Policy Statement

Research and scholarship are essential parts of Marshall University. The virtues of scholarship are forged from a combination of patience with eagerness, inspiration with meticulous care, and a reverence for integrity with a willingness to challenge cherished assumptions. It is within the research process that these virtues must be held in the highest esteem and measured against a strict set of standards. In this light, it is incumbent upon the institution to insure accurate, objective, valid and reliable research in the finest tradition of scholarship.

It shall be the policy of Marshall University that no faculty member shall knowingly plagiarize, fabricate, or present incorrect data in research or creative activities conducted under the auspices of the institution. Further, in the case of alleged scientific misconduct, all pertinent rules and regulations of the Public Health Service (PHS), such as 42 CFR Part 50 and allied documents, will prevail in providing definitions, procedures, and deadlines.

The complete policy statement may be found on the web at www.marshall.edu/murc/files/MURC_Misconduct-in-Research-Policy2_Revised-2017.pdf (https://www.marshall.edu/murc/files/MURC_Misconduct-in-Research-Policy2_Revised-2017.pdf).

Liability

Marshall University, as a state agency, cannot assume responsibility for any loss for personal injury or property damage.

Sexual Harassment Policy Statement

Sexual Harassment, a form of sex discrimination, is illegal and against the policies of the university. Sexual Harassment is defined as conduct on the basis of sex that satisfies one or more of the following criteria:

1. **Quid Pro Quo Harassment**: A school employee conditioning the provision of a school-related aid, benefit, or service on an individual's participation in unwelcome sexual conduct.
2. **Hostile Environment Harassment**: Unwelcome conduct on the basis of sex that is so severe, pervasive, and objectively offensive that it effectively denies a person equal access to the school's education program or activity.
3. **Specific Offenses Including**:
   - **Sexual Assault**: Any non-consensual sexual act proscribed by federal, tribal, or state law, including when the victim lacks capacity to consent.
   - **Dating Violence**: Violence committed by a person who is or has been in a social relationship of a romantic or intimate nature with the victim.
   - **Domestic Violence**: Violence committed by a current or former spouse or intimate partner of the victim, by a person with whom the victim shares a child, or by a person similarly situated to a spouse under domestic or family violence laws.
   - **Stalking**: Engaging in a course of conduct directed at a specific person that would cause a reasonable person to fear for their safety or the safety of others, or suffer substantial emotional distress
   - **Sexual Exploitation**: Taking non-consensual or abusive sexual advantage of another for one’s own advantage or benefit, or to benefit a person other than the one being exploited.

Here are examples of possible sexual harassment under the above definitions, but not limited to:

- A professor offering a student a higher grade in exchange for sexual favors.

- A supervisor promising a graduate assistant a research opportunity or funding in return for a date.
- An administrator suggesting that a staff member will receive a promotion if they engage in sexual activities.
- Persistent and unwelcome sexual advances or comments from a classmate that make it difficult for a student to concentrate in class.
- Repeatedly displaying sexually explicit materials in a shared office space, making it uncomfortable for colleagues.
- A faculty member making derogatory comments about a student's gender identity during lectures, creating a hostile classroom environment.
- Unwanted sexual intercourse with a student or staff member, whether by force, threat, or coercion.
- Sexual activity with an individual who is incapacitated due to alcohol or drug use.
- Physical abuse or threats of violence by a current or former intimate partner.
- Emotional manipulation and control by a dating partner, including threats of harm.
- Physical violence or abuse by a spouse or intimate partner.
- Psychological abuse, such as isolating the victim from friends and family.
- Repeatedly following or monitoring a student or staff member, causing them to fear for their safety.
- Sending threatening or obscene messages through email or social media.
- Taking non-consensual photos or videos of a person in a sexual act or private setting.
- Sharing sexual images or videos of someone without their consent.

These examples illustrate various forms of sexual harassment and misconduct that can occur in a university setting.

Anyone who believes he or she has been the subject of sex-based discrimination, gender-based discrimination, harassment, or violence is encouraged to report the incident to the Title IX Coordinator through the Title IX Complaint Form (https://marshall-advocate.symplicity.com/titleix_report/) or the Office of Student Advocacy and Accountability through the General Complaint Form (https://marshall-advocate.symplicity.com/public_report/). Additionally, reports can be made in person or by phone to the following: Title IX Office – Old Main, Room 107, Phone – (304) 696-2934 / Office of Student Advocacy and Accountability – Memorial Student Center, Room 2W29, Phone – (304) 696-2495. The university is committed to providing support and ensuring a safe and equitable environment for all members of the community.

If You Witness or Recognize Behaviors
If you become aware that a member of Marshall University has experienced harm, please contact the Title IX Coordinator. The Title IX Office will assess immediate safety concerns and conduct outreach to provide tailored consultation and support. Learn more at www.marshall.edu/titleix (http://www.marshall.edu/titleix/).

Other Reasons You Might Need to Contact Someone
If you have received instructions that require mandatory reporting as part of your position, program, or department, follow those instructions. If you have questions about what is expected of you, contact the Marshall University Title IX Office by email at titleix@marshall.edu, in person at Old Main, Room 107, or by phone at (304) 696-2934 .

Responsible Employee
A Responsible Employee is a university employee who must report incidents of sexual misconduct to the Title IX Coordinator. All university employees, unless deemed confidential, are considered responsible employees and must report actual or suspected sexual misconduct to the Title IX coordinator.

If an employee is unsure whether they are a responsible employee, they should contact the Title IX Coordinator to determine whether they are a responsible employee.

Before a person reveals information that they may wish to keep confidential, a responsible employee should make every effort to ensure that the person understands their reporting obligation as a mandatory reporter and where to go if they want their information to be kept confidential, such as the Student Counseling Center or the Employee Assistance Program.

When reporting an incident to the Title IX Coordinator, a responsible employee must report all of the information shared with them, such as the name of the victim-survivor, accused individual, location, and information related to the incident. If the individual does not provide this information, please do not ask. Only report the information shared with you. However little that may be.

A responsible employee can inform an individual that a report to the Title IX Coordinator does not automatically initiate a formal investigation. Instead, this reporting obligation ensures that students and employees are informed of their rights and options to address their experiences, including obtaining advocacy and support services and filing a formal complaint.

If You Are an Employee, Here Are Examples of What to Say When Receiving a Disclosure:
Here is an example of what you can say to interrupt and inform a student or employee of your reporting obligations:

> *"Thank you for coming to me with this, but I need to stop you for a moment. It sounds like you might have experienced something I may be required to report. I care about you and want you to get the resources you need, but there are certain things that some employees, like me, have to report, which would include giving your name and the details you share with me.*
>
> *I want you to make an informed choice about what you disclose to me today. If you're going to tell me something I might have to report, you may instead want to talk to someone who can help protect your confidentiality. I am more than happy to connect you with a confidential resource if you're not ready to report this officially.*
>
> *If you'd like to share information with me, the Title IX Office will reach out to inform you of your options, which include receiving supportive measures or starting an investigation if you choose. Further, they can also assist you with reporting it to the police."*

What You Should Not Say When Receiving a Disclosure If You Are an Employee:
If a student or employee shares information about a sexual assault or any unwanted incident with you, here is what you should not do:

- Do NOT promise confidentiality. As a responsible employee, you cannot maintain confidentiality and must report incidents of suspected sexual misconduct to the Title IX Office.
- Do NOT promise an outcome.
- Do NOT promise counseling or guidance beyond your training or expertise. Instead, refer the person to a trained resource (Title IX Office, Violence and Prevention Office, Counseling Center, Ombudsperson, and Employee Assistance Program).
- Do NOT discourage the person from further reporting. If you have doubts about the incident, keep them to yourself.
- Do NOT minimize (or magnify) the incident or the impact on the person.
- Do NOT blame the person for the incident. Be aware that blame may be stated or implied through comments, body language, or questions.
- Do NOT question the person about the incident. It is not the responsible employee's role to investigate the incident, and asking too many questions can make a person feel uncomfortable or even attacked. Questions should be limited to the following: 1) the person's name, the accused perpetrator's name, date, time, and location of the incident, and 2) assessing for any immediate health and safety needs.
- Do NOT say that you know what the Complainant is going through.
- Do NOT Panic. Take a deep breath and focus on the Complainant.

How to Report
Acts of discrimination and harassment, including sex/gender-based offenses (sexual harassment, sexual assault, dating violence, domestic violence, and stalking), can be reported by going to the Title IX website at www.marshall.edu/titleix (https://www.marshall.edu/titleix/) and clicking the "File A Report" button on the right side of the page. Reports may also be made in person by choosing the button on the right side of the webpage entitled "Schedule a Meeting with the Title IX Office." Additionally, you can email the Title IX Office at titleix@marshall.edu (titleIX@marshall.edu).

Prevention and Engagement

- Training and Education - Attend campus workshops and training. Information and details regarding training are available at www.marshall.edu/titleix (http://www.marshall.edu/titleix/).
- Inform yourself - For Title IX-related information relevant to employees and students, consult Marshall University's policies and procedures, which can be found at www.marshall.edu/titleix (https://www.marshall.edu/titleix/).
- Get involved - Commit to working collectively towards and maintaining equitable, respectful, and inclusive work and learning environments.
- Resources and Support - If you have experienced any form of sex discrimination, support resources are available throughout the Title IX process.
- Marshall University Counseling Center for Students - (304) 696-2550
- Marshall University Employee Assistance Program - https://www.marshall.edu/human-resources/employee-assistance-program-eap/

Federal and State Laws and Regulations
Laws and regulations, including Title IX, established in 1972, prohibit sex discrimination. Marshall University policies incorporate these legal mandates and apply to every member of the Marshall University community: students, staff, faculty, and other academic personnel.

Marshall University Policies
Marshall University policies prohibit sex and gender-based discrimination, including sexual or gender-based harassment, sexual assault, intimate partner violence, stalking, and other forms of sexual misconduct. See relevant policies at www.marshall.edu/titleix (http://www.marshall.edu/titleix/).

Confidentiality and Policy
Certain resources have legally protected confidentiality and only share information with others when the survivor/victim gives specific permission or when required by law. Marshall University's Title IX Office protects the privacy of individuals who have been impacted by sexual misconduct and share information as needed to respond to the requests, assess community safety, or comply with legal requirements.

File a Report
You have the right to make a report to Marshall University or submit a report to the police. Go to www.marshall.edu/titleix (http://www.marshall.edu/titleix/) for more information about making a report and available academic, workplace, and other support measures.

Students with Disabilities

Introduction

Marshall University is committed to providing equal opportunity and access to all programs, services, and activities for students with disabilities. Marshall has three (3) offices or centers that provide services for students with disabilities. These programs include two nationally recognized centers for excellence: the College Program for Students with Autism and the Higher Education Learning Problems (H.E.L.P.) Program. Each of these has different intake processes and procedures. Please check with each program for specific questions. For more specific information on their services, processes, and fees, please use the web links that follow:

The Office of Accessibility and Accommodations

www.marshall.edu/disability/ (http://www.marshall.edu/disability/)

The Office of Accessibility and Accommodations is the university-wide office responsible for working with both faculty and students with disabilities to provide reasonable accommodations, assistive technology, and/or auxiliary aids and services. This office helps to ensure Marshall University is providing equal opportunity and access for all students with disabilities without cost to the students.

College Program for Students with Autism Spectrum Disorder

www.marshall.edu/collegeprogram/ (http://www.marshall.edu/collegeprogram/)

(Focus is on students with autism.)

Participation in this program requires that students pay for services. College Program services are highly individualized, but every student receives supports from graduate assistants and West Virginia Autism Training Center staff who work to oversee that the student is accessing the services they need to have a successful college experience. 94% of students who have received College Program supports have graduated or are currently on

track to graduate. College Program staff are also available to provide Allies Supporting Autism Spectrum Diversity Training to campus departments. The one-hour online or in-person training can be tailored to fit the needs of various populations such as faculty member, peers, community members, and employers. The College Program also hosts a 3-day employment preparedness workshop in June and a high school summer transition program during summer session III.

H.E.L.P. Program

www.marshall.edu/help/ (http://www.marshall.edu/help/)

(Focus is on students with learning disabilities.)

Participation in this program requires that students pay for services. The H.E.L.P. Program (Higher Education Learning Problems) is located in Myers Hall, on the Huntington campus of Marshall University. H.E.L.P. is a comprehensive academic support program for Marshall University students with diagnosed Specific Learning Disabilities (SLD) and/or Attention Deficit Hyperactivity Disorder (ADHD). The H.E.L.P. Program offers one-on-one academic tutoring, academic coaching, and diagnostic evaluations. Students participating in the program must have met acceptance criteria for Marshall University and are considered for entry to the H.E.L.P. Program, via a separate application process.

Confidentiality and Disability Disclosure Statement

Students with disabilities are admitted to Marshall University under the same admittance criteria and process for all students. Students with disabilities are not required to disclose their disability during the admissions process nor during their time at Marshall. However, if they seek accommodations including assistive technology, or auxiliary aids/services they must make their request to the Office of Accessibility and Accommodations.

Accessibility

Marshall University is committed to making all programs, services, and activities fully accessible to students with disabilities.

According to the U. S. Department of Education's OCR Compliance Review No. 11-11-6002:

"Accessible" means a person with a disability is afforded the opportunity to acquire the same information, engage in the same interactions, and enjoy the same services as a person without a disability in an equally effective and equally integrated manner, with substantially equivalent ease of use. Educational benefits and opportunities afforded by technology are "accessible" if a person with a disability is afforded the opportunity to acquire the same information, engage in the same interactions, and enjoy the same services as a person without a disability in an equally effective and equally integrated manner, with substantially equivalent ease of use. A person with a disability must be able to obtain the information and engage in the same interactions as fully, equally, and independently as a person without a disability. Although this might not result in identical ease of use compared to that of persons without disabilities, it still must ensure equal opportunity to the educational benefits and opportunities afforded by the technology and equal treatment in the use of such technology.

Requesting Services

Registration and Documentation

To receive accommodations, assistive technology, and/or auxiliary aides, students must schedule an appointment with the Office of Accessibility and Accommodations director to register for services. Web conferencing can be arranged for students who have long travel distances, take online courses, or are attending classes at remote campus locations. Students will need to schedule this initial appointment either through email or telephone contact to the Office of Accessibility and Accommodations director. At this initial meeting, students need to provide documentation of their need for reasonable accommodations, assistive technology, and/or auxiliary aids/services.

Please note that the H.E.L.P. Center and Autism Center's College Program have different intake procedures for students. Please contact them directly.

Course Substitution

Students with disabilities may apply for course substitutions as a reasonable accommodation under the following policy:

Conditions

A student with a disability seeking a course substitution must meet the following conditions:

- Completion of the Course Substitution Form. This form requires that the student attach a recent (within three years) diagnosis of a disability warranting a substitution or waiver. (The form is available in the Office of Accessibility and Accommodations.) A licensed psychologist, a licensed school psychologist, or a properly credentialed education specialist must have made the diagnosis in the case of a learning disability.
- Verification on the Course Substitution Form from the dean of the student's college, that the course for which a substitution is requested is not an integral part of the student's course of study. If the course is integral to the course of study the substitution or waiver request shall not go forward.
- Submission of the Course Substitution Form to the Office of Accessibility and Accommodations.

Procedure

Submission of the Course Substitution Form and supporting documentation by the student to the Office of Accessibility and Accommodations initiates the process. The Office of Accessibility and Accommodations confirms that a diagnosis of a disability is presented by the student and that the disability is known to hinder or prevent successful completion of the course of study for which the substitution is requested. Once the Office of Accessibility and Accommodations approves the request, the form is forwarded to the Dean or Associate Dean. If there is no such diagnosis the request is denied. All confidential materials submitted by the student will remain housed with the Office of Accessibility and Accommodations. The Dean or Associate Dean will determine if the course is or is not an integral part of the student's course of study. The Dean or Associate Dean are charged with identifying courses that would constitute appropriate substitution and reporting these courses to the Office of Accessibility and Accommodations.

A student who is denied a course substitution or waiver may appeal in writing within 10 working days to the Vice President for Student Affairs. Students should be aware that a course substitution would not be valid at any other institution and would have to be approved by the

new college or department if the student changes major or declares a second major at Marshall University.

Appeals Process

Students who believe they have been inappropriately denied a reasonable accommodation by the Autism Training Center, the H.E.L.P. Center, or the Office of Accessibility and Accommodations may appeal as follows.

Step One: The student will submit the Accommodation Appeal Form to the Office of Accessibility and Accommodations within two (2) days of the denial of accommodations. This appeal form requires the recommended accommodations as provided by a licensed physician, psychologist or other appropriate medical professional. In addition, the student will provide a written statement indicating why the denial of the accommodations is in error and a potential detriment to the student's ability to participate in curricular and co-curricular activities.

The Office of Accessibility and Accommodations will, within five (5) business days, attempt to informally resolve the appeal. Resolution may be an affirmation of the refusal of the accommodation with a rationale for the decision, recommend provision of the accommodation, or submission of the appeal form for a Step Two review.

Step Two: If the student is not satisfied with the decision from Step One, he or she may forward the Accommodation Appeal Form within two (2) days of receipt the Step One decision to the Vice President for Student Affairs (VPSA), or his/her designee who will further investigate the appeal. This investigation may involve a meeting with the student, staff of Autism Training Center, the H.E.L.P. Center, and/or the Office of Accessibility and Accommodations, faculty and staff involved in the appeal, and others whose expertise may inform the review. The VPSA will render a decision, including a rationale, in a timely manner within five (5) business days. The VPSA may also submit the appeal form for a Step Three review.

Step Three: If the student is not satisfied with the decision from Step Two, he or she may forward the Accommodation Appeal Form within two (2) days of receipt the Step 2 decision to the Senior Vice President for Academic Affairs and Provost or his/her designee, (VP AA&P), who will further investigate the appeal. The VPAA&P will render a decision, including a rationale, within five (5) business days. The decision of the VP AA&P shall be final.

Failure to Provide An Accommodation or Issues with Providing an Accommodation

Students, the Office of Accessibility and Accommodations, or the faculty or staff who believe an employee of Marshall University failed to or has issues with providing an accommodation approved by the Autism Training Center, the H.E.L.P. Center, and/or the Office of Accessibility and Accommodations will submit the Accommodation Complaint Form to the Office of Disability Services. The Office of Accessibility and Accommodations will, within five (5) calendar days, report to the student and the VPSA the result of an investigation of the complaint and the action taken, if any.

The matter may be appealed if the student, the Office of Accessibility and Accommodations, faculty or staff believes that:

- any agreed to resolution of the matter has not been adhered to or followed, or
- the accommodations are still not being provided,
- no resolution can be reached concerning the issue, or
- there is a dispute regarding how/what accommodations should be provided.

Appeal of Failure to Provide an Accommodation

Step One: The student, the Office of Accessibility and Accommodations, the faculty or staff will submit the Accommodation Complaint Form within two (2) days of the issue or incident of providing an accommodation occurs to the Office of the VPSA. This appeal form requires the recommended accommodations as provided by a licensed physician, psychologist or other appropriate medical professional. In addition, the student, Office of Accessibility and Accommodations, the faculty or staff will provide a written statement indicating what resolution attempts, if any, have been taken. Indicate which of the reasons indicated in 2.2 has occurred.

Step Two: The Office of the VSPA will, within five (5) business days, attempt to resolve the appeal. This attempt at resolution may involve a meeting with the student, staff of the Autism Training Center, the H.E.L.P. Department, and/or the Office of Accessibility and Accommodations, faculty and staff involved in the appeal, their director, chair, dean, and/or others whose expertise may inform the review. The Office of the VPSA will render a decision, including a rationale, in a timely manner within five (5) business days. The VPSA may also submit the appeal form for a Step Three review.

Step Three: If the student, the Office of Accessibility and Accommodations, faculty or staff is not satisfied with the decision from Step Two, he or she may forward, within two (2) days of the Step Two decision, the Accommodation Complaint Form to the Office of the Senior Vice President for Academic Affairs and Provost or his/her designee, (VP AA&P), who will further investigate the appeal. The VP AA&P will render a decision, including a rationale, within five (5) business days. The decision of the VP AA&P shall be final.

The VPAA&P shall have the authority to direct University faculty and staff to provide any accommodation to which the VP AA&P finds that the student is entitled to receive.

Accommodations which have been approved by the Autism Training Center, the H.E.L.P. Department, and/or the Office of Accessibility and Accommodations, must be provided during the appeal process.

If faculty or staff are found to have failed to provide an accommodation after all the measures outlined herein have been exhausted or at any time during the appeal process, then the matter will be referred to The Office of Equity Programs/Title IX for further investigation and possible disciplinary actions.

Right to Accommodation for Any Judicial or Appeal Process

All students with a previously approved accommodation may be entitled to receive reasonable accommodations during any judicial or appeal process. Upon notification by the student, or by the individuals conducting a judicial or appeal process, the Office of Accessibility and Accommodations will coordinate the provision of the accommodation and have the authority to identify how best to provide the accommodation. Provided that, the student may be required to register with the Office of Accessibility and Accommodations to receive those accommodations in accordance with University policy and procedures.

Retaliation Prohibited

No individual may retaliate against the student or any person that assists the student in the receipt of accommodations or this appeal process.

"Retaliate" means to take an adverse action against an individual or subject an individual to conduct that has the purpose or effect of unreasonably interfering with that individual's educational experience, work or academic performances, or creates an educational experience or academic or work environment that a reasonable person would find intimidating or hostile because of something that individual did to further the University's policy for providing accommodations.

Weather-Related and/or Emergency Closings and Delays

(from Board of Governors Policy UPGA-2, effective May 14, 2025)

Policy

Generally, it is Marshall University's policy to maintain its normal schedule, even when conditions are inclement. However, that is not always possible.

Huntington Campus Delays and Closings

In those instances when it is necessary to alter the schedule in response to weather conditions, every effort will be made to notify all those affected-students, faculty, staff and the general public-as expeditiously and as comprehensively as possible in the following ways:

- The university subscribes to a third-party service to provide notifications by e-mail, text message, and telephone, referred to as "MU Alert" at Marshall. All students, faculty and staff will be enrolled in the MU Alert database with their university e-mail addresses, and, in the case of faculty and staff, their office telephone numbers. Students, faculty and staff may provide additional contact methods, including those for text messaging and cell phone numbers, through the use of the myMU portal. In cases of weather-related or other emergency closings and delays, University Communications staff will use MU Alert to send notification.
- Television stations in Huntington and Charleston will be notified.
- Radio stations in Huntington and Charleston will be asked to announce the delay or closing.
- Time permitting, newspapers in Huntington and Charleston will be notified. Often, however, decisions must be made after deadlines of newspapers.
- The Office of University Communications will communicate the specific details of the delay or closing to the Office of Public Safety at 304-696-HELP.
- Notifications will be posted on the University's official social media accounts.

Information about closing, cancellations, or delays will ordinarily be disseminated to area radio and television stations. The authoritatively correct statement of the University's condition (Huntington) is stipulated to be the message on the main page of the website at http://www.marshall.edu.

This section applies only to the Huntington campus and all releases should make it clear that it relates only to the Huntington campus. The chief administrative officer (as designated by the University president) will manage the weather-related closings policy for the South Charleston campus and other education centers for the respective location, and all releases should make clear that the release applies only to the affected location. The South Charleston phone number is 304-746-2500. See the following section for information on procedures for other locations.

Types of delays and closings:

- University Closed: All classes suspended and offices closed.
- Classes Cancelled: All classes suspended; offices open.
- Classes Non-Mandatory: Classes meet as normal and offices are open. Instructors are required to excuse absences to students in in-person classes who are unable to travel to the class.

Delay Code A: Means a delay in the opening of classes BUT no delay in the opening of offices. Delays will usually be in the range of one to two hours. Employees are expected to report to work at their normal starting times unless they feel that travel is unsafe. If an employee feels that he/she cannot travel safely to work, he/she may charge accrued annual leave for the portion of the workday from 8:00 a.m. (or their normal start time) until their arrival at work.

Delay Code B: Means a delay in the opening of classes AND a delay in the opening of offices. Delays will usually be in the range of one to two hours. Employees do not have to report to their offices until the stated delay time. If they believe they cannot travel to work safely by the stated delay time, they may charge accrued annual leave for the work hours from the stated delay time until they can next report to work.

Class operation under delays: Under both categories of delay, students should go to the class that would begin at the stated delay time or the class that would have convened within 30 minutes of the stated delay time. A two-hour delay means that classes that begin at 10:00 a.m. begin on time. Classes that begin at 9:30 a.m. meet at 10:00 a.m. and continue for the remaining period of that class.

Exceptions with regard to employees: Certain critical and emergency employees may be required to report to work on time or earlier than normally scheduled despite the particular delay code published.

Faculty

Once operations are resumed, deans and departmental chairs must take steps to ensure that faculty meet their scheduled classes or substitutes secured so that class schedules are met.

Decision Making

Decisions on closings and/or delays will be made jointly by the Chief of Staff, Senior Vice President for Academic Affairs and the Senior Vice President for Operations following the consultation with other appropriate officials, including the President. Should only one or two of those three persons be available, the ones available will make the decision.

Every effort will be made to reach decisions to allow time for adequate notification of those affected.

South Charleston Campus and Other Education Centers

Because weather conditions can vary substantially, it is possible that classes will be delayed or cancelled at some locations and not at others. The chief administrative officer for each location, in consultation with local staff, will decide on class cancellations.

South Charleston campus:

Notification of delays or cancellations at the South Charleston campus will be announced by:
(a) University website
(b) MU Alert
(c) University official Facebook and Twitter social accounts, and
(d) Local media. Students may check the status of their classes by checking the website.

Point Pleasant, Beckley, Teays Valley and other educational centers:

Procedures for delayed openings and class cancellations are similar to those for the South Charleston campus. At Point Pleasant, Beckley, and Teays Valley, information regarding cancellations will be provided on the University website, and through MU Alert, the University's official Facebook and Twitter social media accounts, and local media.

Remote locations and other education centers:

Because there may be classes meeting on an irregular schedule in a geographically dispersed area throughout the semester, decisions about whether to meet during inclement weather will be made by the instructor. Those decisions will be transmitted to students by e-mail or other methods as agreed by students and the instructor.

Types of delays and closings for the South Charleston campus:

South Charleston Closed: All classes cancelled and offices closed.

South Charleston Classes Cancelled: All classes cancelled. Details provided by site.

South Charleston Classes non-mandatory: Classes meet as normal. Instructors must excuse absences for students in in-person classes who are unable to travel to class.

South Charleston Delay: A delay in the beginning of non-class activities, e.g. a two- hour delay would mean the normal workday would begin at 10:00 a.m. rather than 8:00 a.m.

Marshall University School of Medicine

Due to the unique nature of its obligations to its constituents, the Marshall University School of Medicine may maintain a separate set of procedures for weather-related and emergency closings.

MU Alert

Information on Marshall University's Emergency Messaging System (MU Alert) can be found on the website at www.marshall.edu/emergency/mualert (http://www.marshall.edu/emergency/mualert/).

Graduate Student Resources

Access, Connections, And Engagement (ACE) Center

Shaunte Polk, Director
East Hall/304-696-6705

The Access, Connections, and Engagement (ACE) Center at Marshall University is committed to supporting student success by providing access to resources, fostering relationships, and encouraging active participation in the university and the Huntington, WV community. Through innovative programs, strategic partnerships, and personalized support, ACE helps students navigate their academic journey, build meaningful relationships, encourage student engagement, and prepare for future careers.

Accessibility and Accommodations

Stephanie Ballou, Director
www.marshall.edu/d (http://www.marshall.edu/disabled/)isability (https://www.marshall.edu/disability/)

A student with a disability may be eligible to receive academic accommodations. It is incumbent upon the student to follow the policy detailed on the university website and to request any academic accommodations through the Office of Accessibility and Accommodations at the beginning of each semester. Students must follow this procedure to ensure they will receive appropriate and reasonable academic accommodations.

Please see "Students with Disabilities" in the section titled "University Policies and Procedures."

Bookstore

www.bkstr.com/marshallstore (https://www.bkstr.com/marshallstore/)

Textbooks for Marshall University graduate courses are available from the Marshall University Bookstore in Huntington. In the case of South Charleston campus or off-campus locations, students may order books by mail, phone, or online at www.marshall.bkstr.com (http://www.marshall.bkstr.com).

The Marshall University Bookstore in Huntington (telephone 304-696-3622 or toll free at 1-800-547-1262) is located at One John Marshall Drive, Huntington WV 25701, in the Memorial Student Center on the Huntington campus. The store is open from 9:00 a.m. - 5:00 p.m. Monday-Friday. Summer hours are 9:00 a.m. - 5:00 p.m. Monday-Friday. Online orders are encouraged at www.marshall.bkstr.com (http://www.marshall.bkstr.com).

The bookstore accepts checks, MasterCard, VISA, Discover, and American Express. The Point Card is also accepted at the Huntington store. Third-party direct billing is accepted with a purchase order or written authorization from the funding agency. Textbooks may be returned for refund or credit. Contact the store for details. The store also buys books from students at any time.

The university has established a textbook policy with the objective of minimizing textbook costs to students. This will be accomplished by repurchasing and reselling used textbooks, and using certain basic textbooks for a reasonable number of years, ordinarily not less than two years.

Campuses And Centers

South Charleston Campus
100 Angus E. Peyton Drive
South Charleston, WV 25303-1600
304-746-2500
schas@marshall.edu

Marshall University's South Charleston campus is dedicated to making higher education opportunities more accessible to people living in the Kanawha Valley and surrounding counties. The South Charleston campus delivers general education core courses, special interest courses, and college courses in the high schools. We offer courses

to meet the needs of traditional-age college students, nontraditional adult students, and accelerated high school students.

Regional Center

Mid-Ohio Valley Center, Point Pleasant
304-674-7200
www.marshall.edu/movc (http://www.marshall.edu/movc/)
movc@marshall.edu

Career Education

Cristina McDavid, Director
career@marshall.edu
www.marshall.edu/careereducation (http://www.marshall.edu/careereducation/)

The Office of Career Education assists students in all phases of professional development leading to a career including self-assessment of skills, interests, and career goals as well as exploring and declaring a major. Career Coaches also guide students in effective resume-building and interviewing skills. In addition, students are offered practical, hands-on techniques for networking and searching for part-time, internship, and entry-level employment.

The office is located on the corner of 5th Avenue and 17th Street (Huntington).

Child Development Academy

Brittany Jobe, Director
520 22nd Street/304-696-5803
perry271@marshall.edu
www.marshall.edu/cda (http://www.marshall.edu/cda/)

The Child Development Academy at Marshall University provides child care services to children of Marshall University students, faculty, staff and the greater community. It serves as a location for Marshall University undergraduate and graduate students participating in various clinical experiences as part of their academic program. The programs currently placing university students at the Child Development Academy are Early Education, Elementary Education, and Psychology. The facility was opened in August of 1999 and the construction was a joint venture of Marshall University and the City of Huntington.

Counseling Center

www.marshall.edu/counseling (http://www.marshall.edu/counseling/)

The Counseling Center is located on the first floor of Prichard Hall and provides free confidential mental health counseling and crisis intervention for students. Students may call 304-696-3111 to schedule an appointment with one of the full-time counselors. Students can also use WellTrack for wellness resources (marshall.welltrack.com/ (https://marshall.welltrack.com/)).

The HELP Program

Hillary Adams, Director
Myers Hall/304-696-6256
help@marshall.edu
www.marshall.edu/help/ (http://www.marshall.edu/help/)

The HELP Program is a fee-based program and was established in 1981. The program provides qualified college students who have a diagnosed Specific Learning Disability and/or Attention Deficit Hyperactivity Disorder (ADHD) the academic supports and accommodations they need for success. The program offers:

- Diagnostic psychoeducational testing to determine the presence of a learning disability and/or ADHD.
- Tutoring by graduate assistants and/or professional staff in coursework.
- Remediation in reading, math, spelling, and written language skills by specialists.
- Support in notetaking, study skills, organization, and memory improvement.
- Life coaching for holistic goals such as social integration, independent living skills, executive functioning skills, and more.
- Liaison between students and MU faculty/staff and family members.
- All academic accommodation, including private testing and extended time.

Applications to The HELP Program must be made separately from the application to the university.

Please see “Students with Disabilities” in the section titled “University Policies and Procedures.”

Housing and Residence Life

Mistie Bibbee, Director
housing@marshall.edu

Tracey Eggleston, Property Manager - The Landing
thelanding@marshall.edu

The Department of Housing and Residence Life is committed to providing a residential experience that supports and enhances students’ learning, personal growth, and academic achievement. While all students are welcome in the traditional residence halls, The Landing houses our Graduate and Professional students. Details about The Landing can be found at https://www.marshall.edu/thelanding/. We strive to be a residential program that aspires to excellence as a leader in campus living. Our commitment is to student learning, safe residential facilities, engaging and educating our students outside of the classroom, and creating communities of learners and responsible citizens, as well as the academic and personal development and success of our students.

Information Technology

MUIT Service Desk
Drinko Library 142/304-696-3200
www.marshall.edu/it (http://www.marshall.edu/it/)

The Marshall University Information Technology (MUIT) Service Desk is located on the first floor of Drinko Library. MUIT is dedicated to transforming the user experience with efficient, integrated, and collaborative innovations that meet the needs of the ever-changing academic environment. MUIT enhances technology at Marshall University by promoting and supporting IT applications to improve teaching, learning, and administrative operations. MUIT also leads the development of an integrated IT environment, actively supporting academic and support activities to help faculty, staff, and students achieve Marshall University's technology goals.

Computer Accounts

As a Marshall student, you automatically receive a MUNet account. Your MUNet username is your unique ID for logging into campus systems and is part of your email address (e.g., username@marshall.edu). You will use the same username and password across all university systems. Students may also look up their MUNet usernames and change or reset forgotten passwords by visiting www.marshall.edu/id (http://www.marshall.edu/id/).

Computing Facilities
MUIT manages several Computing Facilities that provide access to MUNet-connected workstations for the campus community. MUIT managed public computers, including those in the Drinko 24-Hour Study Center, have the latest versions of software available. University Computing Facilities are currently available in Corbly Hall, Smith Hall, and Drinko Library in Huntington. All University Computing Facilities provide printing and scanning services. Other specialized facilities are available at selected sites.

In addition to MUIT's on campus Computing Facilities, remote access to university sponsored software is available through Cameyo. A cutting-edge Virtual Application Delivery platform that enables students to securely and seamlessly use the software needed for their studies, regardless of the device used or where they are. With Cameyo, you no longer need to be on campus or connected to the university network to access the full range of academic software.

MUIT Service Desk
The MUIT Service Desk is on the first floor of the Drinko Library, providing the University community with technical support services on various issues and platforms. The MUIT Service Desk offers technical support for technology related issues such as username and password issues, MU Wi-Fi connections, email setup on mobile devices, software downloads, etc. Contact the MUIT Service Desk in person in Drinko Library, via chat on our website **www.marshall.edu/it**, or call us at 304-696-3200.

Online Support
The MUIT website provides students, faculty, and staff additional information about MUIT, and the services offered and supported at **www.marshall.edu/it**. Additionally, MUIT's technology self- service articles are available on the **myMU** Portal in the "**My Support**" tab. If you need further **Technical Assistance** submit a ticket on the same page and track your inquiry through "**My Support Cases**."

Maintenance Windows
Marshall University Information Technology performs weekly maintenance on Sundays from 4 AM to 8 AM (ET). Services may be intermittent during maintenance windows. All planned and unplanned MUIT related outages will be communicated via email from "IT Announcements" to faculty, staff, and students via email.

myMU
The myMU Portal is Marshall University's online hub for students, providing easy access to essential services, academic resources, and campus tools. Whether you need to check your schedule, register for classes, access financial aid information, access online courses or connect with university support, myMU is your go-to platform.
MyMU can be accessed at https://mymu.marshall.edu (https://mymu.marshall.edu/).

Military and Veterans Affairs

www.marshall.edu/m (http://www.marshall.edu/student-affairs/supportservices/military-veteran-affairs/)ilitary (https://www.marshall.edu/military/)

The Office of Military and Veterans Affairs works with veterans in all branches of the military and with Marshall students who are considering joining the military after receiving their degrees. The office provides services to citizen-soldiers who have completed their service as well as individuals currently serving who wish to take advantage of veterans' benefits. The office also works with military dependents and their families. The office is located in Gullickson Hall 211. Telephone is 304-696-5278.

Marshall Online

Dr. Julia Spears, Assistant Provost of Online Education and Certification
Old Main 200
online@marshall.edu
www.marshall.edu/online (https://www.marshall.edu/online/)

Marshall Online's mission is to inspire innovation and creativity in online education and transform the online learner experience at Marshall University. With values focusing on student-centered learning, technology integration, exemplary student and faculty service, and innovative thinking, Marshall Online is an emerging leader in championing the online student experience and pathways to success. This unit focuses on three critical areas: student engagement (Online Student Engagement Team (https://www.marshall.edu/online/student-experience/)), faculty support (the Design Center (https://www.marshall.edu/design-center/)), and microcredentials (Marshall Skills Exchange (https://www.marshall.edu/microcredentials/)).

Marshall Online oversees distance courses at Marshall. "Distance education" is defined as education that uses technology, such as the internet, to deliver instruction to students who are separated from the instructor, and to support regular and substantive interaction between the students and the instructor, synchronously or asynchronously (34 CRF 600.2). See **"Course Modalities"** in the Academic Information section for descriptions of Marshall's in-person and distance courses.

Psychology Clinic

Dr. Britani Black, Director
Harris Hall 449
304-696-2772
www.marshall.edu/psych/clinics/campus-psychology-clinic/ (https://www.marshall.edu/psych/clinics/campus-psychology-clinic/)
psychology@marshall.edu

The Marshall University Psychology Clinic has been established by the Department of Psychology to serve as a training facility for advanced graduate students enrolled in the clinical psychology doctoral program at the university and to provide high quality, low cost, confidential psychological services to individuals on the campus and from the local community.

The student clinicians are doctoral students in the Marshall University Clinical Psy.D. program. Student clinicians provide services under the supervision of qualified clinical faculty selected by the Department of Psychology to fulfill supervisory and teaching functions. A variety of services is offered by the clinic. These include individual

psychotherapy, psychological assessment, and group psychotherapy, as well as educational workshops and other events. Some clinical faculty may also provide services. Although the clinic is not a for-profit venture, nominal fees are charged for some services; psychological therapy services are provided at no charge to students.

Recreation Center

www.marshall.edu/campusrec (http://www.marshall.edu/campusrec/)

The Marshall Recreation Center (Campus Rec), a 123,000-square-foot facility, contains 4 wood gym courts for basketball, volleyball, pickleball, and dodge ball; 3 racquetball courts; a 37 foot climbing wall with bouldering area; outdoor pursuits center with rental equipment; aquatics center with 3 lap swim lanes, leisure pool, vortex pool and 20 person spa; men's and women's locker rooms; family changing areas with lockers; 17,000 square feet of fitness space on the second and third floor with free weights, and selectorized machines; 4 group fitness studios; a 3 lane 1/7th mile walking/jogging/running track; pro shop and lounge area. Campus Rec provides an array of provides an array of fitness classes that are free with membership as well as personal training services, swim lessons, intramural sports and a series of special events throughout the year. These events include a 5k run, disc golf championship and indoor triathlon. The entire facility is accessible for persons with disabilities. The Rec Center is also the largest student employer on campus.

Speech And Hearing Center

Smith Hall 143
Phone: 304-696-3641
Fax: 304-696-2986
www.marshall.edu/mu-speech-and-hearing-center (https://www.marshall.edu/mu-speech-and-hearing-center/)

Sarah Clemins, Director of Clinical Education
304-696-3246

Pam Holland, Chair, Department of Communication Disorders
304-696-2985

The Department of Communication Disorders in the College of Health Professions operates the Marshall University Speech and Hearing Center (MUSHC), which provides quality speech, language, and hearing evaluations and treatment services for people of all ages. The center provides services for a variety of communication and swallowing disorders including, but not limited to, articulation, fluency, voice and resonance, cognitive communication, augmentative and alternative communication, aural rehabilitation, feeding/swallowing, and receptive and expressive language. In addition, services for communication differences, such as dialectical differences, are provided. Additional programs within the department include the Luke Lee Listening, Language, and Learning Lab (the first and only oral preschool for deaf and hard of hearing children in West Virginia) and the Scottish Rite Childhood Speech and Language Disorders Program. Services are available for Marshall students, faculty, and staff, as well as the general public. Costs for services may be handled through insurance, private pay, or an educational scholarship program. MUSHC is located in Smith Hall 143. For scheduling call 304-696-3641.

Student Affairs

Marcie Simms, Vice President
Memorial Student Center 2W38/304-696-2284
student-affairs@marshall.edu
www.marshall.edu/student-affairs (http://www.marshall.edu/student-affairs/)

The Division of Student Affairs provides resources to help students and families succeed at Marshall University. We offer support in health, counseling, wellness, accessibility, transportation, absences, accountability, activities, intercultural affairs, leadership, community engagement, Esports, Greek life, and more. Our mission is to foster student success, support, and involvement. The various units within the Division of Student Affairs are:

- Access, Connections, and Engagement (ACE) Center
- Accessibility and Accommodations
- Community Service and Family Programs
- Counseling Center
- Esports & Club Sports
- Fraternity and Sorority Life
- Student Advocacy and Accountability
- Student Government Association
- Student Life
- Military and Veterans Affairs
- Violence Prevention and Response
- Wellness Center
- Women's Center

Student Advocacy and Accountability

Lisa Martin, Senior Director
2W38 Memorial Student Center
304-696-2495
martil@marshall.edu
www.marshall.edu/student-conduct/ (https://www.marshall.edu/student-conduct/)

Student Advocacy
Kat Smith, Director
2W32 Memorial Student Center
304-696-2284

The Office of Student Advocacy and Accountability is committed to enhancing the college experience by providing essential support beyond the classroom. We empower students with resources to navigate challenges, resolve conflicts, and achieve personal and academic success. Our services include:

- Conflict Resolution – Assistance with personal, and institutional challenges through mediation and advisement.
- Accountability - Promoting a culture of responsibility by guiding students through fair and educational conduct processes.
- Individual Support – Access to counseling, disability accommodations, and specialized health programs to help students succeed.
- Academic Advocacy – Guidance on university policies, appeals, and fair treatment in academic matters.

The *Student Code of Conduct*, *Student Academic Rights and Responsibilities*, and the conduct processes are available in the *Student Handbook*, published by the division of Student Affairs.

Student Health and Wellbeing

We are dedicated to nurturing the mental and physical well-being of our students. We have an array of services including the Counseling Center, Student Health services, the Wellness Center, Marco's Meal Share Program, and the Student Emergency Fund. The Office of Accessibility & Accommodations provides academic accommodations and physical accessibility support necessary for students to be successful.

Student Health and Wellbeing offices are located in Prichard Hall and the Memorial Student Center:

1. **Counseling Services**: Located on the first floor of Prichard Hall, the Counseling Center offers professional therapeutic services that can assist students with mental health, academic, career, and personal needs. Counseling services are confidential and free for Marshall University students. Our primary goal is to support the mission of Marshall University and the Division of Student Affairs by providing support and assistance to develop students' personal growth, academic success, and mental health. The Marshall University Counseling Center recognizes and supports the diverse needs of students through counseling, educational, assessment, outreach, and training activities. 304-696-3111.
2. **Wellness Center**: A healthy lifestyle is the foundation for success and fulfillment, and the habits created in college can be carried throughout one's life. The Marshall Wellness Center is committed to nurturing the physical and mental health of students enabling a lifetime of success, personal development, and well-being. We strive to imbue wellness within the university's environment, policies, and practices, resulting in Marshall students who are well-balanced, self-actualized citizens of the world. We are located on the second floor of the Marshall Student Center, just outside the elevator in MSC 2W16A. 304-696-4103
3. **Accessibility and Accommodations**: The Office of Accessibility and Accommodations provides academic accommodations and physical accessibility support necessary for students to achieve their academic goals and promotes independence for our students. We aim to make all programs, services, and activities fully accessible to students with disabilities, and our staff works directly with students to personalize types and levels of services needed for a successful college career. We are located in Prichard Hall, Room 117. 304-696-2467.
4. **Violence Prevention and Response**: The Violence Prevention & Response Program is dedicated to creating and maintaining a safe and respectful campus environment by leading comprehensive and collaborative prevention initiatives, fostering a culture of community responsibility, and offering advocacy and support services to victims of sexual & interpersonal violence. We are located on the second floor of the Marshall Student Center, just outside the elevator in MSC 2W16A. 304-696-5701

Student Health Services

Leah Tolliver, Assistant Dean of Wellness
Old Main 115
304-696-3112
tolliver@marshall.edu
www.marshall.edu/student-affairs/resources/ (http://www.marshall.edu/student-affairs/resources/)

Student Health Services are provided at the Marshall Medical Center at Cabell-Huntington Hospital. Student Health is designed to treat acute illnesses. Services are delivered by Marshall Family Medicine, a division of the School of Medicine. Operating hours are from 8 a.m.- 4:30 p.m., and it is closed Saturdays, Sundays, and on school holidays. Student Health operates on an appointment basis. Please contact the Student Health clinic for appointments and walk-in availability, 304-691-1100.

Student Life

Dr. Tiffany Hartman, Assistant Dean of Student Life
2W37 Memorial Student Center
304-696-3423
tiffany.hartman@marshall.edu
www.marshall.edu/student-affairs/student-involvement/ (http://www.marshall.edu/student-affairs/student-involvement/)

Student Life is dedicated to fostering an educational, entertaining, and exciting environment outside of the classroom. With over 200 active student organizations, 16 Greek-lettered social fraternities and sororities, an active community outreach program, support and resources for military-connected student, growing Esports team, and various recreational sports teams, you will never not find something to do.

- **Military and Veterans Affairs**: We are here to engage all military-connected students through transitional support, educational benefits and programs to promote learning, engagement, and success. Our Veterans Lounge offers all military-connected students free printing, study space, computers, and more. We are located in Gullickson Hall 211. 304-696-5278
- **LEAD Center**: The LEAD Center is home to all programs related to student involvement. If you are interested in learning more about Greek life, joining one of the many clubs and organizations available, exploring leadership opportunities like the John Marshall Emerging Leaders Institute (JMELI), or just a place to hang out, the LEAD Center is the place to be. We are located in the lower level of the Memorial Student Center. 304-696-6776
- **Student Government Association**: Students interested in being a voice for your peers and to make change happen on campus would find the perfect community in Student Government Association. SGA is located on the second floor of the Memorial Student Center, room 2W29B.
- **Esports**: Esports, short for "electronic sports," refers to organized competitive video gaming where individuals or teams compete against each other in various video games, often for prizes, sponsorships, or titles. If you love gaming or love to watch people play, Esports is the right spot for you. Esports is located in the Thunderdome, room 402 in Drinko Library. 304-696-3504
- **Community Service**: Marshall students have the opportunity to give back to our on-campus and off-campus community through volunteering. Marshall is also a certifying organization of the Presidential Volunteer Service Award for students who complete various hours of verified community service hours. We are located on the main floor of the Memorial Student Center, room 1W25. 304-696-2284

Student Transportation

All Marshall students are connected to the Tri-State Transit Authority's entire regional line through Marshall's partnership with TTA. The Green Machine is the student TTA bus with stops specifically relevant to the Marshall community. So whether you need to get downtown for an art class, go grocery shopping at Kroger or Walmart, or take a day trip to the mall, all it takes is a swipe of your MUID to ride. Download the

RouteShout v2 app for live bus tracking, or visit www.tta-wv.com for a full list of buses, schedules and stop times.

Testing Center

Demeley Smith-Holmes, Director
Room G-45, Morrow Library/304-696-6391
demeley.smith@marshall.edu
www.marshall.edu/testing-center/ (https://www.marshall.edu/testing-center/)

The Marshall University Testing Center administers the GRE, Praxis, and various other exams in contract with the Educational Testing Service. The MU Testing Center serves as a PSI FAA Testing Services site. For additional information please visit the website or call the phone number listed above or 304-696-2604.

Women's Center

Leah Tolliver, Assistant Dean of Wellness; Alissa Rookard, Coordinator
https://www.marshall.edu/wcenter/
304-696-3338, Old Main

The Marshall University Women's Center serves to foster the personal growth and development of women as independent, confident, and healthy individuals. We seek to expand understanding within the University community of personal, political and social issues of concern and interest to women. The Women's Center is committed to being a multicultural affirming resource through which women of varying race, ethnicity, sexual orientation, religion, ability, and chronological age are encouraged to seek out our services and participate in our programs and event. We strive to be a place for all men and women to gather and explore and celebrate the richness and diversity of life.

The center provides information, educational programming, training, referrals, victim advocacy, and services to facilitate education on issues related to feminism, women, men, and gender. The center organizes events of interest to women and men such as discussion groups, speaker series, workshops, festivals, and films. The center also maintains a resource library with information on sexual assault, stalking, domestic violence, dating violence, sexual harassment, women's health, body image, eating disorders, and date rape drugs.

Violence Prevention and Response Program

Leah Tolliver, Assistant Dean of Wellness; Alyssa Hager, Coordinator
www.marshall.edu/violence-prevention/ (https://www.marshall.edu/violence-prevention/)
304-696-5701

The Violence Prevention and Response Program is dedicated to creating and maintaining a safe and respectful campus environment by leading comprehensive and collaborative prevention initiatives, fostering a culture of community responsibility, and offering advocacy and support services to victims of interpersonal violence.

Wellness Center

Leah Tolliver, Assistant Dean of Wellness; Kaye Godbey, Coordinator
www.marshall.edu/wellness/ (https://www.marshall.edu/wellness/)
MUWellness@marshall.edu

The Wellness Center is home to Marshall's wellness programs, Collegiate Recovery, and the Violence Prevention and Response Program. The center is a free and open space for students to access resources, meet, meditate, or relax. Students also have free access to a meditation/prayer room, a small meeting room, and a study lounge.

Wellness Center Services

- Alcohol and drug education, online training, and personal risk reduction meetings
- Tobacco cessation resources
- Sexual health testing, education, and resources
- Stress management programming and resources
- Recovery support and resources
- Campus events and volunteer opportunities

Writing Center

Meghan Hancock, Director
www.marshall.edu/writingcenter (http://www.marshall.edu/writingcenter/)
Drinko Library, 2nd Floor/304-696-6254/writing@marshall.edu

The Writing Center, staffed by graduate and undergraduate students of various majors, provides free writing consultation to all Marshall University students. Tutors help students through the entire writing process, from discussing initial ideas to revising and editing their work. The center is located on the second floor of Drinko Library. Students are encouraged, but not required, to make appointments ahead of time, and may find more information about making appointments on the Writing Center's website or by calling the Writing Center at 304-696-6254.

Academic Information and Resources

Academic Affairs

Dr. Robert Bookwalter, Interim Provost and Senior Vice President for Academic Affairs
Old Main 200

The Office of Academic Affairs has primary responsibility for supporting and pursuing the academic mission of the university.

Center for Teaching and Learning

Dr. April Fugett, Executive Director
Old Main 109
304-696-2206
www.marshall.edu/c (http://www.marshall.edu/catl/)tl (http://www.marshall.edu/ctl/)

The mission of the Center for Teaching and Learning (CTL) is to empower faculty in their teaching and research by cultivating a campus culture that values pedagogical, disciplinary, and program-based inquiry in support of student learning. More specifically, CTL provides opportunities for faculty to engage with, and develop, the instruments of teaching and learning (e.g., curricula and pedagogy) and the processes of teaching and learning (e.g., data-driven teaching

strategies, reflective and metacognitive practices). In addition to professional development opportunities, the center administers the annual faculty awards, conducts classroom observations, directs a New Faculty Orientation program, hosts an annual teaching conference, and maintains a library of resource books related to a variety of teaching and learning topics. Housed within CTL are the Writing Across the Curriculum and Community Engagement/Community-Based Learning programs.

Community Engagement/Community-Based Learning

Dr. Britani Black, Director
Harris Hall 323
304-696-2206
www.marshall.edu/cbl (http://www.marshall.edu/cbl/)

The Marshall University's Community Engagement/ Community-Based Learning program assists faculty, students, and community partners in course-specific collaborations that connect learning objectives to public service and civic engagement. The combination of Community-Based Learning and academic theory enhances personalized education for students and creates opportunities to connect key course concepts with relevant real-world experiences. Engaging the community empowers students as learners, teachers, achievers, and leaders as students can make a more meaningful and long-term impact on Marshall University and in the community. CBL will empower students who want to become more involved with the community and who wish to learn in an interactive, transformative environment. Community-Based Learning is a mechanism by which the university mission is enhanced. A course in which all learning is passive memorization and library research will not create an environment wherein students can reach their full learning potential. Therefore, the inclusion of CBL in coursework enhances student research skills and offers them an opportunity to participate in community transformations. CBL coursework provides an element of pedagogy that propels students towards future successes. Participating in Community-Based Learning courses also provides students with the tools they need to be successful in the working world, providing resume-building opportunities and potential contacts for employment.

Course Modalities

At Marshall University, courses are delivered in-person, online, or some combination of both. Distance courses are courses in which online engagement replaces some or all in-person class meetings (see **"Marshall Online"** in the Learning Opportunities and Resources section for more information on distance courses).

For additional information on course modalities, please visit Course Modalities for Students (https://www.marshall.edu/oec/course-modalities/).

Marshall Course Modalities and Attributes

In-Person: Meets in-person, on-location.
These courses meet at the location and on the days and times noted in the course schedule. Locations can include the Huntington campus, South Charleston campus, or off-campus spaces. They may require some coursework on Blackboard, so students should have access to a computer and internet. In-person courses do not have an attribute.

Asynchronous Online (AO): No class meetings, asynchronous work. These courses take place fully online. Members of the class engage in the course at different times, and students have a window of time in which to complete coursework, including exams. Students need consistent access to a computer and internet.

Synchronous Online (SO): Meets online at the designated times. These courses take place fully online. Members of the class engage in the course at the same time, as designated by the class meeting days/times in the course schedule. Students need consistent access to a computer and internet to complete learning activities on Blackboard and on Teams (or other video conferencing tool). To participate in synchronous online class meetings, students also need access to a webcam.

Synchronous Choice (SC): Students choose to meet online or in-person/on-location at the designated meeting times.
These courses are delivered by the instructor synchronously, both in-person and online. All members of the class meet at the same time. Students have the choice to attend class in-person (at the location designated in the course schedule) or online (via Teams or other video conferencing tool). Students need consistent access to a computer and internet to complete learning activities on Blackboard. If they choose to attend class online, they also need access to a webcam.

Blended (BL): A blend of online and in-person/on-location requirements determined by the instructor.
In these courses, online activities replace some in-person classes. Instructors determine when the class meets in-person and when the class engages online. The course schedule notes the location and the days/times the class will meet in-person when it does (ex. 138 Drinko Library, MW 2-3:30). The instructor will communicate more specific in-person and online engagement information in the course syllabus. Students need to have the ability to meet in-person/on-location as required by the instructor and consistent access to a computer and internet for online work on Blackboard.

HyFlex (FLEX): Flexible attendance options. Students can meet in-person, synchronous online, or asynchronous online for every class. These courses are delivered by the instructor in-person, synchronously online, and asynchronously online. The course schedule notes the location and days/times the instructor will deliver the course. Students can choose to come to class in-person (at the location designated in course schedule), join class synchronously online (via Teams or other video conferencing tool), or work asynchronously online for every class. Students need consistent access to a computer and internet to complete learning activities on Blackboard. If they choose to attend class synchronously online, they may need a webcam.

For information about fees related to distance courses, see Online Program Tuition and Fees (https://www.marshall.edu/tuition/2024-2025-online-learning-tuition-and-fees/).

English Language Institute

East Hall 135
One John Marshall Drive
Huntington, WV 25755, USA
1-304-696-2357
eli@marshall.edu

www.marshall.edu/eli/ (https://www.marshall.edu/eli/)

The English Language Institute prepares students to successfully complete a degree program at Marshall University. Our classes provide students with the opportunity to learn academic skills in three integrated courses (Reading-Vocabulary, Grammar-Writing, and Speaking-Listening) and a Special Topic course. Four levels of instruction are offered in fall and spring. Students receive a minimum of 18-20 hours of classroom instruction per week. Successful completion of Academic Preparatory I fulfills the English language proficiency requirement for admission for Marshall University undergraduate programs. Successful completion of Academic Preparatory II fulfills the English Language proficiency requirement for general admission for Marshall University graduate programs.

Housing And Residence Life

Mistie Bibbee, Director
Holderby Hall/304-696-6765
housing@marshall.edu
www.marshall.edu/housing (http://www.marshall.edu/housing/)

The Department of Housing and Residence Life is committed to providing a residential experience that supports and enhances students' learning, personal growth, and academic achievement. We strive to be a residential program that aspires to excellence as a leader in campus living. Our commitment is to student learning, safe residential facilities, engaging and educating our students outside of the classroom, and creating communities of learners and responsible citizens, as well as the academic and personal development and success of our students. For more information about living on the Huntington campus, please contact the Department of Housing and Residence Life by phone at 304-696-6765 or 1-800-438-5391, by e-mail or on the web site.

The Landing is a apartment complex geared towards students in Marshall University graduation and professional programs. The Landing is located on the Health Sciences Campus off Hall Greer Blvd. Apartments consist of studio and two bedroom units which include all utilities. For more information about The Landing or to schedule a tour, please visit www.marshall.edu/thelanding/ (https://www.marshall.edu/thelanding/).

International Student Services

Tyler Sharp, Director, PDSO and RO
www.marshall.edu/iss (http://www.marshall.edu/iss/)

The Office of International Student Services was established in 1993. Its mission is to assist in globalizing Marshall University and the surrounding community through a coordinated effort. The office coordinates International Admissions, F-1 and J-1 student compliance, and immigration for international faculty and staff.

Libraries

Dr. Monica Brooks, Dean of University Libraries
306 Drinko Library/304-696-6474
library@marshall.edu
www.marshall.edu/library (http://www.marshall.edu/library/)

University Libraries

The Marshall University Library System consists of the John Deaver Drinko Library, the James E. Morrow Library, the Health Science Library at the Cabell-Huntington Hospital, and the South Charleston campus library. Together, the University Libraries' holdings support teaching and research needs, with close to 3 million total items (including government publications and audiovisual materials) and access to more than 60,000 periodical titles. Students may use print and electronic books, periodicals, documents, sound recordings, electronic journals, online reference materials and microforms. Access to electronic resources and online research services is accomplished through the University Libraries' web pages. Each library operates as part of the university system and provides unique service to the clientele and programs with which it is associated. The libraries play an essential role in the educational and research activities of the individual university programs. Using the library as a gateway, students have access to the tools to search multiple resources and obtain materials from a variety of sources. A dynamic interlibrary loan and document delivery program provides materials from other libraries in electronic format, often in a matter of hours. Courier services also enhance turnaround time and overcome geographical limitations.

The John Deaver Drinko Library is open 24/5 and houses more than 130,000 volumes, current print subscriptions, computers, multimedia presentation facilities, an assistive technology center for the visually impaired, faculty and student instructional technology rooms, and a fully wired auditorium. Access Services, Reference, Government Documents, and Information Delivery Services are located in the Drinko Library, with extensive collections and a team of qualified personnel. . For over 100 years, the MU library system has housed a Regional Federal Depository that is now located on Drinko's second floor and is open to the public. The Drinko Library is a state-of-the-art facility which also houses University Computing Services and University Telecommunications.

The James E. Morrow Library, situated between Smith Hall and the Science Building, houses Special Collections and shelving for over 300,000 volumes in the Morrow Stacks. Special Collections features the University archives, West Virginia Collection of state and regional materials, and the distinctive Hoffman and Blake collections.

The Health Sciences Library (HSL), specializing in medical resources for the School of Medicine, including medical education (ME) and graduate medical education (GME) as well as the Physician Assistant Program, maintains a current collection of medical monographs, periodicals, and electronic resources. Literature search guidance, instruction, and collaboration as well as document delivery services are available to all prescribed patrons. The HSL is located on the 2nd Floor of Cabell Huntington Hospital on Hal Greer Boulevard.

The South Charleston Library is located in the Robert C. Byrd Academic and Technology Center. This facility supports the undergraduate and graduate programs offered on this campus. Access to all Marshall Libraries electronic resources is available, along with a professional staff to assist students and faculty with their information and research needs. Items held in the libraries on the Huntington campus can be retrieved through a daily courier service and by the electronic transmission of journal articles between the sites. The library is also the site on the South Charleston campus for taking Marshall photo IDs. For details on services and hours, go to the South Charleston library's home page (www.marshall.edu/musclibrary (http://www.marshall.edu/musclibrary/)).

Currently, the Library staff provide support for a multi-campus copyright education program designed to keep faculty apprised of appropriate use of copyrighted materials provided in a variety of

formats in both face-to-face and online courses. Members of the team provide copyright workshops each semester and stay abreast of national shifts in copyright interpretation, field questions from the university community, make referrals to University Counsel when appropriate, and provide support for university policies that ensure compliance with Title 17 of the US Code and the TEACH Act.

Schools And Colleges

The university functions through these academic units:

- The College of Arts and Media
- The College of Business
- The College of Education and Professional Development
- The College of Engineering and Computer Sciences
- The College of Health Professions
- The Honors College
- The College of Liberal Arts
- The College of Science
- The Joan C. Edwards School of Medicine
- The School of Pharmacy
- Division of Aviation

Testing Center

Demeley Smith, Director
Room G-45, Morrow Library/304-696-6391
demeley.smith@marshall.edu
www.marshall.edu/testing-center/ (https://www.marshall.edu/testing-center/)

The Marshall University Testing Center administers the computer-based GRE, Praxis I, TOEFL, and various other tests in contract with the Educational Testing Service. The MU Testing Center serves as a PSI FAA Testing Services site. The On-Campus ACT is administered through the testing center. For additional information please visit the website or call the phone number listed above.

A resident teacher is immersed in the classroom, school, and community for a rich experience that pairs the resident teacher with a master cooperating teacher to co-teach for a full year. This model provides PK-12 students with two teachers in a single classroom while providing an opportunity to incentivize recruitment and support the retention of quality, effective educators in West Virginia. (*For other definitions of Residency, please see Marshall University Professional School websites*.)

Work Integrated Education Experience

Internship

An internship is a form of experiential learning that integrates knowledge and theory learned in the classroom with practical application and skills development in a professional setting. Internships give students the opportunity to gain valuable applied experience and make connections in professional fields they are considering for career paths and give employers the opportunity to guide and evaluate talent.

Practicum/Clinical Experience

A practicum or clinical experience provides students with intensive, hands-on professional experience in their field of study. Students are assigned to work in settings where they may engage in professional practice in the expected career field and are typically connected to an academic program with course requirements. In some programs, supervision may be required by professionals who hold appropriate credentials for the profession.

Applied Research

Applied Research allows students to look for solutions to practical problems using empirical methods. The results of this action-oriented research focus on applying knowledge to existing problems.

Apprenticeship

An apprenticeship is an industry-driven, high-quality career pathway where employers can develop and prepare their future workforce. Individuals can obtain paid work experience, classroom instruction, and a nationally recognized, portable credential. Employers can choose to register their programs with the U.S. Department of Labor (DOL) to show prospective job seekers that their apprenticeship program meets national quality standards.

Curricular Community-Based Learning (CBL)

Curricular Community Based Learning (CBL) integrates meaningful community service with classroom instruction and critical reflection to enrich the learning experience and strengthen communities. In practice, students partner with a community-based organization to apply their disciplinary knowledge to a community-identified challenge. They then intentionally reflect on the experience to understand how theory and practice align, to interrogate course-based learning, and to understand their role in the community.

Cooperative Education

Cooperative education is a structured method of combining classroom-based education with practical work experience. A cooperative education experience, commonly known as a "co-op", may or may not provide academic credit for structured job experience. Co-op experiences are either full-time (40 hours per week) alternating semesters of work and school or part-time (20 hours per week) combining work and school during the same time. Co-op experiences are paid experiences supervised by a professional following the same career path as the student. Students complete more than one assignment (2 or more) with progressive levels of responsibility.

Capstone

A capstone course or experience requires students to integrate knowledge and skills gained from multiple prior courses in their plan of study and serves as the culmination of an educational program.

Externship

In an externship, students complete a hands-on, immersive experience that prepares them for professional practice and their certification exam. Students complete their experience with oversight from an approved preceptor while providing patient care.

Internship

An internship is a form of experiential learning that integrates knowledge and theory learned in the classroom with practical application and skills development in a professional setting. Internships give students the opportunity to gain valuable applied

experience and make connections in professional fields they are considering for career paths and give employers the opportunity to guide and evaluate talent.

Practicum/Clinical Experience

A practicum or clinical experience provides students with intensive, hands-on professional experience in their field of study. Students are assigned to work in settings where they may engage in professional practice in the expected career field and are typically connected to an academic program with course requirements. In some programs, supervision may be required by professionals who hold appropriate credentials for the profession.

Residency (Teacher Education)

A resident teacher is immersed in the classroom, school, and community for a rich experience that pairs the resident teacher with a master cooperating teacher to co-teach for a full year. This model provides PK-12 students with two teachers in a single classroom while providing an opportunity to incentivize recruitment and support the retention of quality, effective educators in West Virginia. *(For other definitions of Residency, please see Marshall University Professional School websites.)*

Academic Requirements and Regulations

Academic Appeals

See Academic Rights and Responsibilities of Students.

Academic Common Market

Out-of-State Programs at Reduced Tuition

West Virginia residents can pursue academic programs not available within the state through the Academic Common Market (ACM) and through contract programs. Both programs enable West Virginians to enter out of state institutions at reduced tuition rates. Contract programs have been established for study in veterinary medicine, optometry, architecture, and podiatry. ACM provides access to both baccalaureate and graduate programs not otherwise available in West Virginia. The programs are restricted to West Virginia residents who have been accepted for admission to one of the specific programs at designated out of state institutions. For information please contact the Office of Academic Affairs, Old Main 200, (304-696-6690) or The Higher Education Policy Commission. Out-of-state students who have been granted Academic Common Market access to Marshall University should follow the Academic Common Market Procedures available at www.marshall.edu/academic-affairs (http://www.marshall.edu/academic-affairs/).

Academic Dishonesty

Introduction

As described in the Marshall University Creed, Marshall University is an "Ethical Community reflecting honesty, integrity and fairness in both academic and extracurricular activities."

Academic Dishonesty is fundamentally opposed to the goal of "assuring the integrity of the curriculum through the maintenance of rigorous standards and high expectations for student learning and performance" as described in Marshall University's Statement of Philosophy. As such, instances of academic dishonesty will not be tolerated.

A graduate student, by voluntarily accepting admission to the institution or enrolling in a class or course of study offered by Marshall University accepts the academic requirements and criteria of the institution. It is the student's responsibility to be aware of policies regulating academic conduct, including the definitions of academic dishonesty, the possible sanctions and the appeal process.

For the purposes of this policy, an academic exercise is defined as any assignment, whether graded or ungraded, that is given in an academic course or must be completed toward the completion of degree or certification requirements. This includes, but is not limited to: Exams, quizzes, papers, oral presentations, data gathering and analysis, practica and creative work of any kind.

Definitions of Academic Dishonesty

Below are definitions of some common types of academic dishonesty. Each instructor may modify the general definition of academic dishonesty to fit the immediate academic needs within that particular course of study, provided the instructor defines, in writing and preferably in the course syllabus, the details of any departure from the general definition.

- *Cheating:* Any action which if known to the instructor in the course of study would be prohibited. This includes:
  - The unauthorized use of any materials, notes, sources of information, study aids or tools during an academic exercise.
  - The unauthorized assistance of a person other than the course instructor during an academic exercise.
  - The unauthorized viewing of another person's work during an academic exercise.
  - The unauthorized securing of all or any part of assignments or examinations, in advance of submission by the instructor.
- *Fabrication/Falsification:* The unauthorized invention or alteration of any information, citation, data or means of verification in an academic exercise, official correspondence or a university record.
- *Plagiarism:* Submitting as one's own work or creation any material or an idea wholly or in part created by another. This includes:
  - Oral, written and graphical material.
  - Both published and unpublished work.
  - It is the student's responsibility to clearly distinguish his/her own work from that created by others. This includes the proper use of quotation marks, paraphrasing and the citation of the original source. Students are responsible for both intentional and unintentional acts of plagiarism.
- *Bribes/Favors/Threats:* Attempting to unfairly influence a course grade or the satisfaction of degree requirements through any of these actions is prohibited.
- *Complicity:* Helping or attempting to help someone commit an act of academic dishonesty

Sanctions

Sanctions for academic dishonesty may be imposed by the instructor of the course, the department chairperson, the academic dean, or the associate provost in the Office of Academic Affairs.

Students may not withdraw from the course until all appeals are complete. The student should continue to attend and complete all assignments during the appeals process. The instructor may impose

at their discretion the following sanctions should the student choose not to appeal or loses an appeal of an academic dishonesty charge:

- No Credit ("0") for the Assignment: This is the recommended sanction for most minor academic dishonesty. This sanction is appropriate for collaborating on homework and/or minor plagiarism in a writing assignment. If this action affects the student's final grade, a grade of "Incomplete" should be given at the end of a semester, pending the completion of the appeal process. Upon completion, the appropriate grade change can be made.
- Reduction of Final Course Grade/Failure of the Course: These sanctions are recommended for most major violations of academic integrity. Such violations include cheating on a midterm or final exam, plagiarizing a term paper, or other misconduct on a major cumulative experience. A grade of "Incomplete" should be given at the end of a semester, pending the completion of the appeal process. Upon completion, the appropriate grade change can be made.
- Temporary Prohibition from Retaking the Class: A student who is appealing a charge of academic dishonesty may not retake the same course in which the charge was made, with the instructor who made the charge, until the appeal is complete, unless such a prohibition would necessarily delay the student's graduation.

In those cases in which the offense is particularly flagrant or where there are other aggravating circumstances, additional non-academic sanctions may be pursued through the Office of Student Conduct.

The instructor or responsible office must notify any student accused of an offense within five (5) instructional days of the discovery of the incident, in writing, and outline any charges and subsequent sanctions imposed for academic dishonesty. Written notification of academic dishonesty charges (and inclusion of confirmed charges/sanctions in the student's records) is designed to inform a student of the potential repercussions of repeat offenses and their rights of appeal.

Any time an accusation of academic dishonesty is made, and a sanction imposed (or a sanction will be imposed with the submission of final grades), a notice should be sent to the Office of Academic Affairs within five (5) instructional days of the accusation.

In addition, the Office of Academic Affairs will inform the student and the student's academic dean of the accusations made, the sanctions prescribed, the repercussions of repeat offenses, and their right of appeal. A copy of the report will go into the student's college file. Any subsequent action taken (additional sanctions imposed, the lessening of sanctions, the withdrawal of accusations, the result of appeals, etc.) must be reported to the Office of Academic Affairs within ten (10) instructional days of the action.

The Office of Academic Affairs will maintain a file of academic dishonesty incidents. These will be reported in summary form (no student or faculty names will be included) to the Academic Deans and the Faculty Senate at the end of each academic year.

Graduate Student Repeat Offenses

The Office of Academic Affairs will impose a sanction of expulsion for confirmed second offenses of academic dishonesty charges after consultation with the appropriate department chairs and academic deans.

A student's record of academic dishonesty charges will be maintained throughout their enrollment in graduate school at Marshall University. A graduate student may receive any available sanction for the first offense of academic dishonesty. The second confirmed offense will result in an automatic expulsion from Marshall University.

Reporting

Any time an accusation of academic dishonesty is made, and a sanction imposed (or a sanction will be imposed with the submission of final grades), a notice should be sent to the Office of Academic Affairs within five (5) instructional days of the accusation.

Notice of an act of academic dishonesty will be reported to the Office of Academic Affairs through the completion of an "Academic Dishonesty Report Form." The "Academic Dishonesty Report Form" will include:

- Instructor's Name
- Course Information (Term, Number, Section)
- Student's Name
- Student's University Identification Number
- Brief Description of the Charge
- Date of Accusation
- Brief Description of the Sanction

Instructors are encouraged to give a copy of the "Academic Dishonesty Report Form" to a student accused of an offense. However, within ten (10) days of receipt of the "Academic Dishonesty Report Form" the Office of Academic Affairs will inform the student and the student's dean of the accusations made, the sanctions prescribed, the repercussions of repeat offenses, and his/her rights of appeal. A copy of the report will go into the student's college file.

Any subsequent actions taken (additional sanctions imposed, the lessening of sanctions, the withdrawal of accusations, the results of appeals, etc.) should be reported to the Office of Academic Affairs within ten (10) days of the action.

Recording

The Office of Academic Affairs will maintain a file of academic dishonesty incidents. These will be reported in summary form (no student or faculty names will be included) to the academic deans and the Faculty Senate at the end of each academic year.

Administrative Steps for Appealing a Course Grade or an Action Based on Academic Performance or Dishonesty

This section presents the process for students wishing to appeal a course grade, a dismissal or sanction based on academic performance or conduct, or a charge of academic dishonesty. For other complaints, please see the Administrative Steps for Filing a Complaint section.

Course Grade Appeals

Students may only appeal an overall final course grade, not grades for individual assignments. Moreover, course grades may be appealed only under the following conditions:

1. The grade assigned for a course reflects an error in calculation or reporting (e.g., a computational error, oversight of submitted materials, or posting the wrong grade);

2. Standards different from those established in the written department or University policies, if specific policies exist, were used in assigning the grade;
3. The instructor departed from his or her previously articulated, written standards, without notifying graduate students, in determining the grade.

The burden of proof will be with the appealing graduate student.

For the purposes of graduate course grade appeals, an instructional day is a day when regularly scheduled classes are held on the Huntington campus and a business day is a day when the Huntington campus is open for business.

Step 1) Attempt to resolve the matter informally: Within ten (10) instructional days of receiving a final grade, the student should contact the instructor by email requesting a review of the grade. The instructor will respond in writing within ten (10) business days of receiving the request. The student may contact the director/coordinator of the graduate program should the instructor not be available or extraordinary circumstances require urgent action.

Step 2) If the student or instructor is not satisfied with the resolution from Step 1, within ten (10) business days of receiving notification from Step 1, submit the Course Grade Appeal Form to the department/unit head in which the grade was issued and the instructor's response. The form can be obtained from the Graduate Studies website, www.marshall.edu/graduate/graduate-student-appeals (https://www.marshall.edu/graduate/graduate-student-appeals/). The Course Grade Appeal form lists all materials to be submitted by the student. If the department /unit head was the instructor, submit the materials to the program director or director of graduate studies. The department/unit head will respond in writing within ten (10) business days of receiving the Course Grade Appeal Form and all required materials.

Step 3) If the student or instructor is not satisfied with the resolution from Step 2, within ten (10) business days of receiving the notification from Step 2, submit the Course Grade Appeal Form to the Assistant Provost for Graduate Studies. The Assistant Provost for Graduate Studies will issue a final non-appealable decision within ten (10) business days of receiving the Course Grade Appeal Form and all required materials.

Action Based on Academic Performance or Dishonesty Appeals

Sanctions resulting from an Academic Disciplinary Action shall take effect immediately, regardless of whether the student appeals the sanction. In exceptional circumstances, however, the Assistant Provost for Graduate Studies or the CAO may suspend the imposition of sanctions pending the resolution of an appeal. The student should continue to attend and complete all assignments during the appeals process.

The burden of proof will be with the appealing graduate student.

The university policy on Academic Dishonesty, UPAA-1, including the appeal procedure, is located at https://www.marshall.edu/policies/. Additional information is available from the Graduate Studies website at https://www.marshall.edu/graduate/graduate-student-appeals (https://www.marshall.edu/graduate/graduate-student-appeals/).

- The director/coordinator of the graduate program, chairperson/department/unit head, or Assistant Provost for Graduate Studies will notify a graduate student in writing of the academic action.
- The academic action may be prescribed by those departments that publish a student handbook that includes sanctions its faculty may impose for academic dishonesty or other actions in violation of the ethical guidelines of the discipline.
- Before initiating a formal appeal, the graduate student must first seek informal resolution from the person who imposed the sanction.
- If there is no informal resolution, the graduate student must submit an appeal to the Assistant Provost for Graduate Studies within ten (10) instructional days of attempting the informal resolution.
- Within ten (10) instructional days of receiving the appeal, the Assistant Provost for Graduate Studies will issue a written decision and provide copies of the decision to the student and person who imposed the sanction.
- If the graduate student is not satisfied with the decision of the Assistant Provost for Graduate Studies, within ten (10) instructional days of receiving the decision, the graduate student may request a hearing of an ad hoc committee of the Graduate Council by contacting the Chair of the Graduate Council.
- Upon receipt of the request for a hearing, the Assistant Provost for Graduate Studies will forward the decision and all attachments to the Chair of the Graduate Council. The academic dean will also be notified and will serve in an advisory role to the Chair of the Graduate Council.
- The Chair of the Graduate Council will convene an ad hoc committee and will schedule a hearing and give all parties ten (10) instructional days written notice of the hearing. The ad hoc committee will include three (3) individuals that may include the Chair of the Graduate Council, the Vice Chair of the Graduate Council, the Secretary, or another member of the Graduate Council.
- The ad hoc committee will review the appeal with all attachments and provide the graduate student and the individual who imposed the sanction the opportunity to review and respond to all evidence. The participants may bring an advisor or legal counsel to the hearing at their own expense.
- The ad hoc committee will operate with due respect to the rights of graduate students, faculty, and administrators including the conduct of interviews, the right of all parties to review and address allegations, and the right to a fair hearing.
- Within ten (10) instructional days of the hearing, the ad hoc committee will render a written decision and forward it to the graduate student, the individual imposing the sanction, the Assistant Provost for Graduate Studies, and the CAO.
- If the graduate student is not satisfied with the ad hoc committee's decision, within ten (10) instructional days of receipt of the decision, the graduate student may submit an appeal to the CAO.
- The CAO's review shall be limited to substantive or procedural issues regarding the hearing. The decision of the CAO is final.

Administrative Steps for Filing a Complaint

Students may file complaints or reports using the electronic system available at https://marshall-advocate.symplicity.com/public_report/. Reports are processed in accordance with Marshall procedures STUDENT-7, "General University Reporting Procedure"; STUDENT-8, "Marshall University Reporting System Procedure"; and ACAD-4 "Reporting Procedure for Academic Issues for Students", which are available from https://www.marshall.edu/policies/.

- Each report will be reviewed by the Case Manager of the Office of Student Advocacy & Accountability to determine the proper jurisdiction of the report, and will then be directed to the appropriate individual for resolution. Topics of reports may include academic issues other than grade or performance appeals; facility or infrastructure concerns; dining-related concerns; health and safety concerns; student life and services concerns; accessibility and accommodation concerns; faculty concerns; or other concerns of the reporter. The same reporting system is used to submit Title IX reports, which will be directed to the appropriate office.

Academic Dismissal

Academic Dismissal is termination of student status, including any right or privilege to receive some benefit, recognition, or certification. A student may be academically dismissed from a program and remain eligible to enroll in courses in other programs at Marshall University; or a student may be academically dismissed from the institution and become ineligible to enroll in other courses or programs at Marshall University. The terms of academic dismissal from a program for academic deficiency shall be determined, defined, and published by each academic program. Academic dismissal from a program or from the university may also be imposed for violation of the university policy on academic dishonesty. For additional details, see "Academic Rights and Responsibilities" and the departmental program requirements. A student may also be dismissed if he or she has not completed the degree within seven years and has not been enrolled during the most recent year. For additional details, see "Time Limitation for Master's and Ed.S. Degrees."

Academic Probation

Any student who has less than a 3.0 GPA either overall or in his or her current major will be placed on academic probation by the Assistant Provost for Graduate Studies. Following notification of probation and prior to subsequent registration, students will be counseled by their advisor or the department chair. During this session, the student will be advised of his or her deficiencies and the requirements for removing the deficiencies within the next nine semester hours of enrollment. Students may repeat courses for which they earned a low grade. Please review Repeating Courses for more information. The student will not be permitted to register without the written approval of the Assistant Provost for Graduate Studies or the Dean of the College Education and Professional Development. A second counseling session will follow the first semester or term of subsequent enrollment and will be a review of the student's progress. If probationary status is not removed within a satisfactory time period, the Assistant Provost for Graduate Studies in consultation with the graduate department will determine if the student is to be retained or recommended for dismissal and what counseling or remediation steps will be required of the student as a condition of retention.

Medical and Pharmacy Students

Medical School and School of Pharmacy students should consult the appropriate publications of their schools for the description of this sanction.

Academic Progress

Graduate students may enroll in a minimum of 9 and a maximum of 12 hours during a fall or spring term to be considered as enrolled full time. A minimum Grade Point Average of 3.0 is required to be in Good Academic Standing. Therefore, a full-time graduate student is required to complete a minimum of 9 hours with a 3.0 or higher GPA for normal academic progress during a fall or spring term.

Academic Rights and Responsibilities of Students

(from Board of Governors Policy SA-2)

The institution and its constituent colleges and schools shall define and promulgate, consistent with the policies, rules and regulations of the Higher Education Policy Commission and the Marshall University Board of Governors, the academic requirements for admission to the institution, for admission to limited enrollment programs and for admission to professional and graduate degree programs (where offered); the criteria for maintenance of satisfactory academic progress, for the successful completion of the program, for the award of a degree or certification, for graduation; the requirements or criteria for any other academic endeavor; and the requirements for student honesty and originality of expression.

A student, by voluntarily accepting admission to the institution or enrolling in a class or course of study offered by the institution, accepts the academic requirements and criteria of the institution. It is the student's responsibility to fulfill coursework and degree or certificate requirements and to know and meet criteria for satisfactory academic progress and completion of the program.

Academic Rights

Concomitant with the academic standards and responsibilities established pursuant to these rules, each student shall have the following academic rights:

- The student shall be graded or have his/her performance evaluated solely upon performance in the course work as measured against academic standards. The student shall not be evaluated prejudicially, capriciously, or arbitrarily. The student shall not be graded nor shall his/her performance be evaluated on the basis of his/her race, color, creed, sex or national origin.
- Each student shall have the right to have any academic penalty, as set out in Section 4.2 of these rules below and more specifically defined by his/her institution, reviewed.
- Each student shall have access to a copy of the college or university catalog or program brochure in which current academic program requirements are described (e.g., required courses, total credit requirements, time in residence requirements, special program requirements, minimum grade point average, probation standards, professional standards, etc.). Students have the right to receive from the instructor written descriptions of content and requirements for any course in which they are enrolled (e.g., attendance expectations, special requirements, laboratory requirements including time, field trips and costs, grading standards and procedures, professional standards, etc.).
- The instructor of each course is responsible for assigning grades to students enrolled in the course, consistent with the academic rights set out in the preceding sections.

Application of Policy to Students

Student — any person who has been admitted to an institution to pursue a course of study, research, or service, who is currently engaged in an institutionally sponsored activity, and who has some right or privilege to be on the campus or in the facilities of the institution, or to use the same, in connection with study, research, or

service, or who yet has some right or privilege to receive some benefit or recognition or certification from the institution, under the rules, regulations, or policies of the Higher Education Policy Commission, the Marshall University Board of Governors or the institution.

A student, as defined in this policy, shall be subject to any applicable penalties for failure to comply with the academic requirements and standards promulgated by the institution and/or its constituent colleges and schools according to these rules. Students are expected to adhere to these academic standards in all academic settings, classrooms, laboratories, clinics and any other activities which are part of academic requirements.

Academic Requirements and Consequences of Failure to Meet Requirements

The institution and its constituent colleges and schools shall define and promulgate the academic requirements, criteria and standards as set out in these rules. Normally, students may finish a program of study according to the requirements under which they were admitted to the program. However, requirements are subject to change at any time, with reasonable notice provided to the students.

A student who fails to meet the academic requirements or standards, including those for academic honesty as defined by the institution and its constituent colleges and schools according to Section 2.1 of these rules, may be subject to one or more of the following penalties:

- A lower grade or failure of the course or exclusion from further participation in the class (including laboratories or clinical experiences), all of which may be imposed by the instructor.
- Academic probation as determined and defined by the institution and its constituent colleges and schools.
- Academic suspension as determined and defined by the institution and its constituent colleges and schools.
- Academic dismissal.

Academic dismissal is defined as termination of student status, including any right or privilege to receive some benefit or recognition or certification. A student may be academically dismissed from a limited enrollment program and remain eligible to enroll in courses in other programs at the institution, or a student may be academically dismissed from the institution and not remain eligible to enroll in other courses or programs at the institution.

A student may appeal any penalty according to the procedures below. Each institution and its constituent colleges and schools shall determine and specify the point at which penalties, excluding those specified in these rules, may be imposed. Each instructor determines the point at which the penalties specified may be imposed. Each institution and its constituent colleges and schools shall determine the method(s), if any, by which a student may correct the condition(s) leading to imposition of these penalties and thereby have them removed.

Appeals

Each institution and its constituent colleges and schools shall establish policies and procedures by which a student may appeal or challenge any academic penalties imposed by a faculty member or by the institution or one (1) of its constituent colleges and schools, including those described in these rules.

Additional procedures may include but not be limited to:

- Appeals of a grade penalty or exclusion from class;
- Appeals of final course grades;
- Appeals of imposition of academic probation;
- Appeals of imposition of academic suspension;
- Appeals of dismissal from undergraduate programs;
- Appeals of dismissal from graduate programs;
- Appeals of dismissal from professional degree programs; and
- Appeals of dismissal from the institution.

Policies and procedures relating to appeals of academic penalties shall be governed by due process and shall include, as a minimum:

- Written notice to the student
  a. of his/her failure to meet or maintain an academic standard,
  b. of the methods, if any, by which the student may correct the failure, and
  c. of the penalty which may be imposed.
- An opportunity for the student to meet with the faculty member(s) or other individual(s) who have judged his/her performance to be deficient, to discuss with these faculty member(s) or other individual(s) the information forming the basis of the judgment or opinion of his/her performance, to present information or evidence on his/her behalf, and to be accompanied at any such meeting by an advisor of his/her choice from the institution. Such advisors may consult with but may not speak on behalf of their advisees or otherwise participate directly in the proceedings, unless they are given specific permission to do so by the individual or committee conducting the appeal.
- An opportunity for the student to appeal the decision or judgment of faculty members through the established institutional appeals procedure within thirty (30) calendar days after written notice of the decision or judgment.
- The appeal to the appropriate academic officer or appeals committee is not adversarial in nature; the formal rules of evidence do not apply.
- An opportunity to appeal to the president of the institution or his/her designee within thirty (30) calendar days after the receipt of written notice of the decision or judgment.
- The decision of the president or his/her designee regarding an academic appeal is final.

Policies and procedures relating to appeals of academic dismissal shall be governed by due process and shall include, as minimum in addition to the requirements of the rules above:

- The student may be advised by a person of his/her choice; likewise, the faculty member, academic officer, or committee recommending academic dismissal may have an advisor.
- Witnesses may be called by any of the parties involved.
- A record of the appeal shall be prepared in the form of summary minutes and relevant attachments and will be provided to the student upon request.
- The decision of the president or his/her designee regarding academic dismissal is final.

Publication

All standards, criteria and procedures of the institution shall be published in one or more appropriate institutional publications such as catalogs, student handbooks, academic pamphlets, and handouts.

Such requirements are subject to change with reasonable notice provided to the students.

Accelerated Graduate Degree (AGD)

Marshall University offers an accelerated path through a number of its graduate degree programs. We encourage qualified undergraduates to consider participating in an Accelerated Graduate Degree (AGD) option, as it allows them to complete the requirements for the baccalaureate and graduate degree in less time and at lower cost.

Undergraduates accepted into an AGD program can begin taking graduate coursework during their senior year. Programs offering an accelerated master's degree option may allow up to 12 hours of graduate-level coursework. Programs offering an accelerated doctoral degree option may allow up to 18 hours of graduate-level coursework.

Programs may use one of two models for the AGD option. For those offering a 3+ graduate option, the department may allow specified graduate-level courses to double-count as fulfilling a portion of the bachelor's and master's degree requirements. For those offering an accelerated graduate degree option, the department will specify the graduate-level courses that double-count as fulfilling a portion of the bachelor's and master's degree requirements and those graduate-level courses that will serve as electives for completion of the baccalaureate degree but not the graduate degree. Each program offering an AGD will clearly list how students may count courses for both degrees in the description of the degree options presented subsequently in this catalog.

Advantages of an Accelerated Degree

- complete the Bachelor's degree with up to 12 fewer credit hours (*Note:* Students must meet all other degree requirements for the bachelor's degree);
- begin work on the graduate degree during the senior year;
- complete a portion of graduate credits paying undergraduate tuition rates;
- earn a bachelor's and graduate degree in less time.

Programs Available

Accelerated Graduate Programs may be found in the *Programs A-Z* sections of the Undergraduate Catalog and the Graduate Catalog.

Eligibility Requirements for Accelerated Graduate Degree

- must have completed at least 90 hours toward the bachelor's degree;
- must have at least a 3.30 overall undergraduate GPA;
- must have at least a 3.30 GPA in the major;
- must meet the admission requirements of the chosen master's degree program. (*Note:* AGD programs may have admission requirements that differ from the admission requirements for the regular master's degree. For example, some departments might waive the required admission test, such as the GRE, GMAT or Miller Analogies Test. Students should check with the chosen graduate degree program.)

How to Apply

1. During the junior or senior year, eligible students should meet with their undergraduate advisor and the Director of Graduate Studies of their chosen graduate degree program to develop an AGD Plan of Study. The Plan of Study form is available online at the Graduate Studies website. The completed, signed, and approved Plan of Study must be submitted to the Academic Dean. Any changes to the AGD Plan of Study must be approved by the undergraduate advisor and Director of Graduate Studies and submitted in writing to the dean.
2. The student's acceptance into the AGD program is subject to the approval of the Plan of Study by the dean.
3. Students accepted into the AGD program should apply for admission to the chosen graduate degree program for the first semester after the bachelor's degree is awarded. Applications should be submitted during the last semester of the senior year.

Requirements for Continuation in the AGD Degree Program

Students must maintain a minimum GPA of 3.0 for all graduate credit toward their graduate degree program.

Withdrawal from the AGD

A student may withdraw at any time from an approved AGD program by informing the undergraduate advisor, the Director of Graduate Studies, and the Academic Dean. A student's status will then revert to the standard undergraduate degree program. Any graduate hours earned must be approved for use in fulfillment of bachelor's degree requirements by the student's Undergraduate Dean.

From Undergraduate to Graduate Student

Beginning with the semester after the student has earned the bachelor's degree and has been accepted into a master's degree program, the student is assessed tuition and fees at the graduate rate. All rules regarding graduate education will apply to the student once admitted into the graduate degree program.

Advising

Academic advising provides academic guidance, professional identification, and educational enrichment.

At the time of admission, students are assigned an academic program advisor. The student and advisor prepare a Plan of Study during the semester the student is admitted. The program outlined in the Plan of Study should be chosen on the basis of the student's interests and needs and should meet program requirements.

- Any unapproved deviations from the Plan of Study may result in delayed program completion and/or graduation. To amend the Plan of Study the student must consult with his or her academic program advisor. When a student applies for graduation or for certification there must be agreement between the Plan of Study and the record of courses taken by the student.
- If the student writes a thesis or dissertation, the advisor or other designated person directs the student in that work. The advisor usually serves as chair of the committee to conduct the student's comprehensive assessment, assembles questions for any written and oral examination, and reports the result of the examination to the academic dean.

- A current list of faculty advisors by program can be found online at www.marshall.edu/graduate (http://www.marshall.edu/graduate/).

Application for Graduation

The application for graduation must be completed and submitted **before** or at the beginning of the student's final semester/term, but **not later** than the date printed in the University Calendar. Applications for graduation, prior to the published deadline, are completed through myMU.

For diploma fee information, see "Special Student Fees" at www.marshall.edu/bursar (http://www.marshall.edu/bursar/). Students planning to graduate in a particular semester or term must provide all data to be applied toward the graduation to the academic dean's office in Huntington by the advertised last day for the submission of the final grades for the semester or term. This documentation is to include official transcripts from institutions external to Marshall. Said transcripts must be received in the Graduate Records Office by the stated deadline. All incomplete grades must be officially removed by the accepted University procedure by this same deadline. Failure on the part of students to comply with this policy will result in their being removed from the graduation list for the term in question.

Note on Transfer Credit

All transfer credit (and official transcripts) must be sent directly to the Graduate Admissions office and received no later than the date for submitting final grades established by the Registrar. Should the transcript not be received by this deadline, the student's name will be removed from the final graduation list.

Note on Incomplete Grades and PR Grades

All grades of *I* must be removed by the end of the following Spring or Fall term and the Grade Change Form for the grade must be received by the registrar's office in Huntington no later than the date for submitting final grades established by the Registrar. This also applies to the recording of grades for thesis. Failure to meet this deadline will cause the student's name to be removed from the final graduation list.

Area of Emphasis

(see also Changing Area of Emphasis)

An area of emphasis is a specific subject area of study which has defined course offerings within an approved degree program and major.

Although a student might take continuing education and/or development courses after receiving a graduate degree, Areas of emphasis for any given degree cannot be added after that degree has been obtained.

Attendance

See Class Attendance Policy.

Auditing

Students who wish to register for a course without earning credit may register as an audit. The cost incurred is the same as if the course were taken for credit. Students who complete audit requirements for a course receive a grade of AUD which carries no earned credit hours. Students who wish to audit a class should secure instructor approval before registration. Attendance and other requirements for auditors shall be determined by the instructor of the course being audited. It is the responsibility of the instructor to discuss the requirements of the course with the auditor. It is the prerogative of the instructor to notify the respective Dean and the Registrar's Office to withdraw the auditor from the class if attendance or other requirements are not met.

Staff Development courses may not be taken under the audit option.

It is not possible to change a registration from credit to audit or audit to credit after the close of the schedule adjustment period at the beginning of a semester or summer term.

Certificate Programs

Certificate programs are professional continuing education programs of typically 12 to 21 credit hours as designated by the program faculty and available to students admitted under the Certificate/ Professional Development and Degree-seeking categories. The main purpose of certificate programs is to provide opportunities to students to complete a cohesive program of coursework that is less than a graduate degree, but which provides advanced training in a specific area. For detailed information about all certificate programs please see www.marshall.edu/graduate (http://www.marshall.edu/graduate/).

Changing Areas of Emphasis

To change the area of emphasis in a degree program, submit a Change of Area of Emphasis form for approval. There is no fee for this change. The form is available online at the Graduate Studies website.

Changing Degree Programs

To change a degree program, apply for admission to the new program through the regular admission process and pay the appropriate admission fee. Note that admission to another degree program is not automatic. Students are reviewed as applicants to the new program and may be refused admission to the new program.

Students wishing to change degree programs within a department (M.S. to M.A. or MA to M.S.) may make the change by completing the Change of Degree Program form available at www.marshall.edu/graduate/current-students/forms-and-information (http://www.marshall.edu/graduate/current-students/forms-and-information/). This process does not require readmission into the program.

Class Attendance Policy

It is the responsibility of each individual instructor to evaluate the importance of student class attendance. Accordingly, each instructor prepares at the beginning of each semester a written statement in the syllabus setting forth his or her policy for consideration of unexcused absences, make-up examinations, and related matters, which will be in force for the semester. This statement is filed with the chair of the department and a statement of policy on attendance appropriate to each class is made available to students. Absences such as those resulting from illness, death in the family, or institutional activities (those approved by the academic deans, such as debate, artistic performances and athletics) and professional, work-related absences (such as short-term military obligations) are to be excused when a student reports and verifies them to the instructor. For such excused absences, the student should be reasonably accommodated.

Commencement and Graduation

Marshall University observes two Commencement Exercises and three graduation dates during an academic year. The official graduation dates are:

- last day of final examinations in the Summer term;
- day of Commencement for the Fall term;
- day of Commencement for the Spring term.

Students who complete all requirements for a degree at any time other than the above dates will be graduated on the next successive date. Students will not be graduated on any dates other than those noted above. Students who are graduated at the end of summer terms are invited to attend the fall Commencement Exercises.

Comprehensive Assessment

In addition to all general requirements for graduate degrees, each student will complete a comprehensive assessment that reviews the student's content knowledge, mastery of disciplinary of creative or research methods, critical analysis, comprehension of disciplinary theory and perspectives, and ability to apply these to comprehensive questions related to the discipline. Depending upon the specific requirements of a particular program, the assessment might include such activities as the report and defense of a final project, comprehensive project, portfolio, or capstone project; thesis or dissertation and its defense; or a written comprehensive exam or oral comprehensive exam.

In this policy, the term "Comprehensive Assessment Committee" will be understood to mean any committee executing the student's final assessment for the degree. For example, a doctoral dissertation committee would be understood to serve as the final Comprehensive Assessment Committee, if that doctoral dissertation project is considered to be the final comprehensive assessment. For additional information, see specific requirements in the appropriate program section as each program has unique options for fulfilling this requirement. Responsibility for development, scheduling and administration of the comprehensive assessment rests with the faculty of the student's program and the appropriate dean.

The Comprehensive Assessment is the final assessment of the student's capacity to complete scholarly research or creative work in the discipline. Typical letter grades are not assigned to the Comprehensive Assessment as the student is expected to demonstrate a level of competence equivalent to others who have earned the degree to be awarded. In other words, expectations for performance are higher than those for individual courses.

A student's performance on the comprehensive assessment is reported to the office of the academic dean as follows:

Letter Grade	Description
E	Pass with distinction, indicating superior performance. This distinction is reserved for only those students whose performance far exceeded expectations established by the department.
P	Pass, indicating competent performance (equivalent to a B grade or higher).
PC	Pass with contingency, which may mean additional requirements for the student as determined by the faculty.
U	Unsatisfactory, indicating that performance has not met the minimum standards of Marshall University

The decision on the grade is made by a majority vote of the members of the committee, consisting of at least two faculty members with the appropriate graduate faculty status, and forwarded by the chair on a form provided by the Graduate Studies office. All graduate students must pass a final comprehensive assessment to be eligible for graduation.

Unless more restrictive guidelines are specified in the individual program description in this catalog, no more than two reassessments are permitted. In the event students fail to pass an assessment, they will be placed on probation and, prior to reassessment, must meet with their examining committee to discuss deficiencies and steps to correct them. Students may be assessed only one time a term or semester. When students fail the second reassessment, the department will recommend their dismissal.

Comprehensive Assessment Committee: Master's Degrees and Education Specialist Degrees

A Comprehensive Assessment Committee must evaluate each student's performance on the comprehensive assessment. The student's graduate advisor or graduate program director selects the chair and other member(s) of the Comprehensive Assessment Committee. The committee chair must have at least "Graduate" level membership in the Marshall University graduate faculty. There must be a minimum of two voting members on every Comprehensive Assessment Committee, including the committee chair, except in the case where a national standardized exam is used as the only assessment, in which case only the person serving as chair is needed. Other than the chair, all other assessment committee voting members must have at least "Associate" level membership in the Marshall University graduate faculty. A majority of the student's Comprehensive Assessment Committee voting members must have appointments within the college of the student's major.

With the approval of the department or division chair or head and the student's Comprehensive Assessment Committee chair, other professionally or educationally qualified people may be invited to act as non-voting members of the committee.

In the event of a tie-vote when determining the outcome of the student's comprehensive assessment, the college or school dean is to select one additional faculty member to break the tie. This additional member must be from the college of the student's major and must have at least "Graduate" level membership in the Marshall University graduate faculty. This also might require the assessment to be executed a second time with the new committee member's personal direct involvement.

In the case of written or oral examinations, the chair of the student's Comprehensive Assessment Committee prepares the questions for the written examination in consultation with other faculty members on the committee, and conducts the oral assessment with the other committee members present. The student may check with the program or department for availability of past assessments or study guides for review.

For any specific student, any exceptions to the above policies must be approved by the office of the academic dean on an individual basis. The dean will notify the chair of Marshall University's Graduate Council of any exceptions that were approved and give the reasons for each exception.

Comprehensive Assessment Committee: Doctoral Degrees (Other than Doctor of Medicine Degrees)

A final Comprehensive Assessment Committee must evaluate each student's performance on the doctoral degree final comprehensive assessment. Other preliminary or intermediate assessments vary by program and department policy. The student selects the chair and other members of the final Comprehensive Assessment Committee, subject to the approval of the student's graduate advisor or program director, and dean. The committee chair must have "Doctoral" level membership in the Marshall University graduate faculty. There must be a minimum of three voting members on every doctoral Comprehensive Assessment Committee, including the committee chair. Other than the chair, all other assessment committee voting members must have at least "Graduate" level membership in the Marshall University graduate faculty. Professional programs may alternatively choose to include a maximum of one external, professionally qualified voting member who would not need graduate faculty membership, and who would serve as one of the three or more voting members. A majority of the student's Comprehensive Assessment Committee members must have faculty appointments within the college of the student's major.

In the event that more than one member of the final Comprehensive Assessment Committee votes not to approve the student's performance as a result of the assessment, the doctoral degree cannot be recommended. At the discretion of a majority of the committee, the student may be given one additional chance to satisfy the committee to the point that no more than one committee member refuses to approve the student's performance on the comprehensive assessment.

For any student, exceptions to the above policies must be approved by the dean of the academic college on an individual basis. The dean will notify the chair of Marshall University's Graduate Council of any exceptions that were approved and give the reasons for each exception.

Concerns About the Operation of an Academic Program, Academic Department, College, or University Office

The faculty, staff, and administration want all students to have a rewarding experience as they pursue their education. Students who have concerns or complaints regarding the operation of an academic program, academic department, college, or university office, should contact the appropriate director, head, or dean. The university's directory lists the leadership of each office.

Please refer to the Administrative Steps for Appealing a Course Grade or an Action Based on Academic Performance or Dishonesty for the process to appeal a course grade, dismissal from a program, or charge of academic dishonesty.

Course Load

A normal course load for graduate students is nine to twelve semester hours in the Fall and Spring semesters, and three to six semester hours in each of the summer terms. Any student seeking registration beyond this limit must request approval for a course overload from the academic dean of their college. Certain programs, particularly in the health professions, routinely schedule students for more than a regular load, with the approval of the academic dean of their college.

Course Numbering

Graduate courses numbered 599-699 may be similar to certain undergraduate 300-499 series courses and may meet jointly. A Marshall University course taken at the graduate level will not meet degree requirements if it was already taken at the undergraduate level. Courses numbered 700-899 are open only to graduate students. Exceptions to this policy sometimes are granted to seniors with excellent academic records. See Undergraduate Enrollment in Graduate Courses (p.).

Credit Hour

One lecture credit hour is given normally for each 15 classroom contact hours plus 30 hours of outside preparation or equivalent. One laboratory credit hour requires at least 30 hours of laboratory work per one lecture credit plus necessary outside preparation or equivalent. Laboratory experiences are complements to classroom courses that focus on the theory and principles of the discipline. They are organized activities involving the observation and verification of experiments and experimental techniques.

Curricular Definitions

A **Degree Type**#is an award signifying a rank or level of educational attainment and is conferred on students who have successfully completed a Degree Program. Examples of Degree Types include Bachelor of Science (B.S.), Bachelor of Arts (B.A.), Master of Arts (M.A.), Doctor of Pharmacy (Pharm.D.), etc. The Degree Type (Bachelor of Science) of the primary major is noted on the student's diploma. The Degree Type abbreviation (e.g., B.S.) is noted on the transcript.

A**Degree Program** is a combination of a Degree Type (e.g., Bachelor of Science) and a program title that represents the overarching content areas of the program's major or majors (e.g., Chemistry). Each Degree Program is assigned a Classification of Instructional Programs code (CIP code) reflecting its overall content area. Degree Programs are listed with their CIP codes on the official inventory of degree programs with the Higher Education Policy Commission (HEPC). A Degree Program must include at least one major.

- An associate Degree Program requires a minimum of 60 credits.*
- A bachelor's Degree Program requires a minimum of 120 credits.*
- A master's Degree Program requires a minimum of 30 credits.*

- The minimum number of required graduate credits for a doctoral Degree Program is established by the program.

A**Major**#is a field of study within an approved degree program with its own curriculum. A Degree Program must have at least one Major and may have more than one Major. For example, a Degree Type of Bachelor of Science with a Degree Program of Chemistry may have a Major in Environmental Chemistry and a Major in Forensic Chemistry. Typically, an undergraduate baccalaureate Major requires a minimum of 24 credits, while Majors at the master's level require 30 credits or more. A Major may be offered within one department or by a combination of departments. All courses in the Major must be taken for a grade except internships, practica, and approved study abroad courses. Marshall includes the name of the Major(s) on the students' diplomas and transcripts.

An**Area of Emphasis**#is a specific subject area of study within a major. Normally, an area of emphasis at the undergraduate level has a minimum of 12 credit hours, while graduate areas of emphasis require 6 credits or more. Areas of emphasis are listed on the transcript but not listed on the diploma.

A**Minor**#is a secondary area of study outside the student's Major field of study. A Minor is smaller in scope than a Major. An undergraduate Minor typically requires 12 credit hours, while graduate Minors require 6 credit hours or more. Minors are noted on the transcript but not on students' diplomas.

Certificatesare professional continuing education programs of typically 12 to 21 credit hours. Certificates are available to students admitted under the Certificate/Professional Development and Degree-seeking categories. Certificates are classified as undergraduate, master's level, or post-master's level. The main purpose of Certificate programs is to provide opportunities to students to complete a cohesive program of coursework that is less than a degree, but which provides advanced training in a specific area. A Certificate is noted on the student's transcript and a separate diploma is provided for a Certificate.

* Please see Marshall University Academic Affairs Administrative Procedure ACAD-2, which is available at https://www.marshall.edu/policies (https://www.marshall.edu/policies/).

Degrees

Marshall University offers programs of study leading to the degrees of:

- Master of Arts, M.A.
- Master of Arts in Teaching, M.A.T.
- Master of Business Administration, M.B.A.
- Master of Medical Science, M.M.S.
- Master of Public Administration, M.P.A.
- Master of Public Health, M.P.H.
- Master of Science, M.S.
- Master of Science in Engineering, M.S.E.
- Master of Science in Mechanical Engineering, M.S.M.E.
- Master of Science in Electrical Engineering, M.S.E.E.
- Master of Science in Nursing, M.S.N.
- Master of Social Work, M.S.W.
- Education Specialist, Ed.S.
- Doctor of Business Administration, D.B.A.
- Doctor of Education, Ed.D.
- Doctor of Nurse Anesthesia Practice, D.N.A.P.
- Doctor of Nursing Practice, D.N.P.
- Doctor of Pharmacy, Pharm.D.
- Doctor of Philosophy, Ph.D.
- Doctor of Physical Therapy, D.P.T.
- Doctor of Psychology, Psy.D.

Dismissal from Program

Only grades of *A, B, C, CR*, or *S* are acceptable in fulfilling graduate degree requirements on any Plan of Study.

Particular programs may require higher performance than *C* in certain courses.

Several programs maintain a policy that stipulates dismissal of students who earn two grades of *C* or less. Repeating a course for a higher grade does not negate the existence of the former grade. As such, a student may be dismissed from the program upon earning a second grade of C or less even if the student repeated a course and earned a higher grade. Students are advised to review with care the degree requirements for their program of study in the *Graduate Catalog* published the year they began the program.

To earn a degree, a student must have a graduation GPA of 3.0 or higher. This graduation GPA will be calculated using all courses completed after the most recent admission to the degree program, along with any previous Marshall University coursework counted toward the degree (shown in the student's Plan of Study). The graduation GPA is distinct from the cumulative (transcript) GPA which includes all courses in the appropriate section of the student's transcript.

A graduate student is required to maintain a minimum cumulative GPA of 3.0. If, upon the completion of 12 hours or thereafter, a degree student's cumulative GPA is less than 3.0, the student may be subject to dismissal from the program. See Grade Point Average and Other Requirements for Graduation *and* Repeating Courses for more information.

Doctoral Degrees

Marshall University follows The U.S. Department of Education's definition of a doctoral degree as an earned degree that carries the title of Doctor. The Doctor of Philosophy degree (Ph.D.) requires mastery within a field of knowledge and demonstrated ability to perform scholarly research. Other doctor's degrees are awarded for fulfilling specialized requirements in professional fields, such as education (Ed.D.), nursing practice (D.N.P.), pharmacy (Pharm.D.), physical therapy (D.P.T.), psychology (Psy.D.) and business (D.B.A.). (https://nces.ed.gov/programs/coe/glossary.asp)

Since 1992, Marshall University has offered the Ph.D. in Biomedical Sciences. The doctorate in clinical psychology (the Psy. D.) admitted its first class in the Fall of 2002. The Ed.D. features majors in Curriculum and Instruction and Educational Leadership. The Doctor of Nurse Anesthesia Practice and Management (D.N.A.P.) is offered by the College of Business in collaboration with the School of Nurse Anesthesia of the Charleston Area Medical Center. In 2011, Marshall University added the Doctor of Physical Therapy (D.P.T.), and Doctor of Pharmacy (Pharm.D.) degrees. The Doctor of Nursing Practice (D.N.P.) was first offered in 2021, and the Doctor of Business Administration

(D.B.A.) followed in 2022. A Ph.D. in Engineering was first offered in Fall 2024.

Dropping Courses and Completely Withdrawing from the University

(See also Medical Withdrawal)

1. Dropping Individual Courses
   - *Day classes:* Students can drop individual courses after the Schedule Adjustment period and during the Withdrawal period which lasts until until 5 instructional days prior to the last class day as defined in the Academic Calendar for each term.. The exact last day for dropping individual courses is always published in the Academic Calendar for any given semester or term. A student who wishes to withdraw from an individual course after the schedule adjustment period must present the request to the Registrar via an electronic submission.
   - *E-Course Withdrawal Period:* The withdrawal policy for e-courses parallels that for regular courses. The refund policy for e-courses also parallels that of regular courses.
   - *Night or Off-Campus classes, or E-Courses:* Classes that meet at 4:00 p.m. or after, off campus, or online do not require instructor signature and may be withdrawn in person at the Office of the Registrar, by sending an e-mail from the student's MU e-mail address to registrar@marshall.edu, or by mailing a request for withdrawal to the Registrar. If a student is on academic probation he/she must have the approval signature of his/her associate dean. The date of the e-mail or postmark on mail requests is the official date of withdrawal.
2. Withdrawal from the University
   Withdrawal from the university is defined as dropping all classes for which a student is registered.
   The student must submit a withdrawal form to the Registrar, e-mail registrar@marshall.edu, or mail a request for withdrawal to the Registrar. The effective date of withdrawal is the date that the withdrawal form is submitted to the Registrar. The date of the e-mail or postmark on mail requests is the official date of withdrawal.
3. Grades Assigned in Case of Dropping Courses or Withdrawal from the University
   In all cases of dropping courses or withdrawal from the University the instructors will report grades as follows:
   a. A student dropping courses or totally withdrawing from the university on or before 5 instructional days prior to the last class day in any semester or term will receive a grade of "W." Exact "W" dates are identified in the annual university academic calendar.
   b. A "W" grade (withdrew) will have no bearing on the student's Grade Point Average but may affect a student's Satisfactory Academic Progress (SAP) for purposes of financial aid..
   c. Students who drop courses without approval, or who do not follow regulations provided in the preceding paragraphs, receive a grade of "F" at the end of the semester.
   d. Students who are enrolled in a first 8-weeks course(s) and totally withdraw from the University after the last day of the first 8-week term will still earn grades for the first 8-week term.
4. Final Date for Dropping an Individual Course or Totally Withdrawing from the University
   The final date for dropping an individual class is 5 instructional days prior to the last class day as defined in the academic calendar for each term. The last date for complete withdrawal from the university is the last class day as defined in the academic calendar for each term. In both cases, "W" grades are assigned.
5. Military Service: Men and women called to active duty in the armed services of the United States are granted full refund of fees, but no credit, if the call comes before the end of the first three fourths of the semester or term, and full credit, but no refund of fees, is granted if the call comes thereafter. However, credit is granted only in those courses in which the student is maintaining a passing grade at the time of departure to military service. The term "called to active duty" is defined as being called to active duty as the result of the federal activation of a total reserve component, National Guard unit, or any portion which involves a particular student or an individual who is a bona fide member of the reserve component or a National Guard unit. The final grades, both passing and failing, for three fourths of a semester or more are shown on the student's permanent record. *Please note:* Students called to active duty should present a copy of activation orders to the Office of the Registrar to ensure proper handling of their academic records in accordance with this policy.

Dual Degrees

Students who wish to seek admission to more than one degree program, whether sequentially or simultaneously, must complete a separate application, pay the non-refundable application fee, and meet all admission requirements for each academic program for which admission is sought. A maximum of 12 semester hours may be used in common among the degrees, with the approval of the department from which the degrees are sought. Such approval must be obtained in writing and put on file in the Graduate Studies office at the time the student begins the subsequent master's degree program. All applicable coursework must meet time limitations.

Not all departments may accept a student who is already admitted to another graduate level program. Prior to submitting a Graduate Application for Admission, please check with the academic department(s) of the program(s) in which you are interested.

Education Specialist

Marshall University also offers the Education Specialist (Ed.S.) degree in Education and in School Psychology. Under the Ed.S. in Education, students may select an area of emphasis in Curriculum and Instruction. For more information, check the appropriate program description in this catalog, or contact the department offering the degree.

Final Grades

Marshall University mails final grades only upon student request. Grades will be available online using myMU. Requests to have grades mailed to the permanent address in the student information system may be submitted online using myMU or by submitting a written request to the Office of the Registrar, One John Marshall Drive, Huntington, WV 25755. Written requests must contain name, student number, and signature of the student.

Full-Time Graduate Student

A graduate student is classified as full-time for the purposes of financial aid eligibility if the student is registered for at least nine credit

hours during a fall or spring term, or registered for at least six credit hours during a summer term. For the purposes of tuition assessment, a graduate student may be assessed tuition for credit hours beyond the first six. (See Refund Procedures under Financial Information.)

Four-Plus-One Degree Programs

See Accelerated Graduate Degree Program.

Grade Information and Regulations

Grade Point Average Defined

Anywhere in this catalog where GPA is discussed, unless otherwise noted, GPA means degree GPA. However, the final transcript GPA includes all graduate-level grades taken at Marshall University at any time, regardless of whether or not they count toward the student's degree. The GPA is calculated only on graduate coursework taken at Marshall University, and only includes coursework taken within the past seven years, or older for coursework that has been revalidated (see Time Limitations for coursework older than seven years). Exclusively, all courses completed after admission to the current degree program, along with any previous Marshall University coursework to be counted toward the current degree (should be in the student's Plan of Study), will be used to calculate the student's GPA—no other courses will be included in the GPA.

Courses with grades of *W, PR, NC, CR, S*, or *U* are not computed in the GPA. The grade of *I* is computed as an *F* in determining qualifications for graduation.

See Repeating Courses for more information.

Grade Point Average Requirements – Good Standing

Grades on coursework may not average lower than 3.0 at any time in the program. All grades of *C* or less are counted in computing the GPA, but no more than six hours of *C* and no grades below *C* may be applied toward a graduate degree. Individual degree programs may have more stringent requirements, so refer to your degree program for information.

A graduate student is required to maintain a minimum cumulative GPA of 3.0 for this coursework. If, upon the completion of 12 hours or thereafter, a degree student's GPA is less than 3.0, the student may be subject to dismissal from the program.

Grades and Quality Points

The following system of grades and quality points is used for graduate courses:

Letter Grade	Description
A	For achievement of distinction. Four quality points are earned for each semester hour with a grade of A.
B	For competent and acceptable work. Three quality points are earned for each semester hour with a grade of B.
C	For below average performance. Two quality points are earned for each semester hour with a grade of C. (No more than six hours of C may be applied toward a graduate degree.)
D	For patently substandard work. One quality point is earned for each semester hour with a grade of D. (No grade of D may be applied toward a graduate degree.)
F	Failure, given for unsatisfactory work. No quality points.
W	Withdrawn on or before the tenth Friday after the first class day of the regular semester or the Friday after the two-thirds point in the summer session. "W" grades are assigned for complete withdrawals.
I	An I grade (Incomplete) is given to students who do not complete course requirements because of illness or for some other valid reason (see Incomplete Grade). The I grade is not considered in determining the Grade Point Average. The student has the responsibility of completing the work within the period defined by the instructor. This period is typically the end of the next fall or spring semester, whichever comes earlier, after the semester in which the incomplete grade was assigned. If the work is completed satisfactorily, one of the four passing marks will be awarded. If the work is unsatisfactory or the student fails to complete the work within the allotted time, an F or failing grade will be recorded. All grades remain on the student's permanent record as originally submitted by the course instructor. Any grade change is added to the permanent record.
CR/NC	Recorded as CR (for satisfactory performance) or NC (for unsatisfactory performance) for courses designated by the department or division for credit/no credit grading. CR and NC are not considered in determining the Grade Point Average.

S/U	For certain courses, which are so designated in the catalog, every student is given a grade of S, which denotes satisfactory completion of the course, or U, which denotes unsatisfactory work. S and U are not considered in determining the Grade Point Average.
PR	Indicates progress on a thesis, dissertation or in select research courses. It is replaced by the final grade upon completion up to established credit limits.

Note: At the graduate level, the grades of *CR* and *S* are considered the equivalent of the grade of *B* or higher.

Graduate Assistantships

Many departments offering graduate degrees as well as non-academic units have graduate assistantships available. The amount of the award will vary depending upon the unit offering the assistantship, the residency status of the student, and the time commitment required (10 hours a week or 20 hours a week). Graduate Assistant awards may also include a stipend and a waiver of a portion of the tuition. Each Graduate Assistant position contract specifies the specific pay and tuition benefits of the position.

Graduate Assistantships are available each semester in teaching, research, or administrative work. Reappointment depends on job performance and academic progress. Please note that a student cannot hold more than one position at a time without approval from the Graduate Studies office. More information is at this site: https://www.marshall.edu/graduate/graduate-assistantship-overview/.

Eligibility

- Full or Conditional admission to a graduate degree-granting program at Marshall University.
- First-time graduate students must have a minimum undergraduate GPA of 2.75 on a 4.0 scale for all previously completed undergraduate coursework; returning GA's must have a minimum graduate GPA of 3.0.
- During Fall or Spring semester must be enrolled for at least 9 hours of graduate coursework for a full-time assistantship or at least 3 hours of graduate coursework for a half-time assistantship; during summer terms must be enrolled for at least 4-5 hours of graduate coursework for a full-time assistantship or at least 2-3 hours of graduate coursework for a half-time assistantship. *Note:* undergraduate hours are eligible for a tuition benefit when required in a student's graduate program.

Apply for an assistantship by contacting the department in which you intend to be enrolled.

Note: By an act of Congress, all graduate assistants must submit an approved I-9 form. Payment of the GA stipend will not be authorized until this form is accepted by the Human Resources office.

Inquiries about graduate fellowships, work-study opportunities, loans, and other forms of financial assistance for graduate students should be directed to the Graduate Studies office or to the Office of Student Financial Assistance, Marshall University, Huntington, WV 25755.

Grade Point Average and Other Requirements for Graduation

The requirements for graduation include completion of the program requirements, successful completion of required comprehensive assessments, a GPA of at least 3.0 (see Grade Information and Regulations), and satisfactory fulfillment of other academic requirements as may be established by the various programs. Additionally, the student must have at least a 3.0 GPA in the major, or in **Core** courses of an interdisciplinary program. Only grades of *A, B, C, CR*, or *S* are acceptable in fulfilling graduate degree requirements on any Plan of Study. Particular programs may require higher performance than *C* in certain courses. Grades of *W, PR, CR, NC, S, U*, and *I* are not counted in the GPA calculation, except that an *I* grade will be calculated as an *F* (for courses where a letter grade is normally given), *NC*, or *U*, depending on the type of course, for determining qualifications for graduation.

Additional Requirements

- Only grades of *C* or better may be used to fulfill degree requirements and no more than six hours of *C* may be applied toward fulfilling the degree. All students should review their degree program with care as some programs may have more stringent requirements.
- In addition to thesis/dissertation credit, up to six hours of *CR* or *S* may be included within a degree program. These grades do not affect the GPA.
- Master's degree students must complete a minimum of 30 hours of graduate coursework. For programs requiring a thesis, a minimum of 3 and a maximum credit of 6 hours may be granted for the thesis toward the total degree credits, except in chemistry and biological sciences, where up to 12 thesis hours may be applied toward the MS degree. All students should consult their degree program as many require more than 30 hours for the degree.
- Students must complete a minimum of 18 hours in the major subject. The major department may optionally require a minor with a minimum of 6 hours in another subject.
- With the approval of the advisor, students may complete courses in a third field. In special teacher-education curricula, courses may be distributed among several fields with the approval of the advisor.
- Graduate courses range in number from 500 to 899. Selected courses allow enrollment of undergraduate as well as graduate courses with undergraduates enrolled in the 400 level section and graduate students enrolled in the 500 level section. The graduate students enrolled in these courses will complete more work than undergraduates including, but not limited to, additional extensive reading, additional course projects, and other tasks the instructor deems necessary for graduate course credit.
- A Marshall University course taken at the 400 level cannot be retaken at the 500 level; it will not be applicable to the graduate degree.
- At least one-half of the minimum required hours for the student's master's degree must be earned in classes numbered 600 or greater.
- Students whose Plan of Study requires a thesis or dissertation must complete all required coursework as specified in the previous points and have the manuscript of the thesis/dissertation approved for publication in the ProQuest database (www.proquest.com/

index (https://www.proquest.com/index/)) by the Graduate Studies office.

Meeting minimum requirements in hours of credit does not necessarily constitute eligibility for the degree. The work taken must constitute a unified and approved program in the field. Some programs may require specific performance on a national exam as a requirement for graduation.

During the seven-year time limit, Marshall University reserves the right to advise students pursuing the master's or Ed.S. degrees of their status on academic performance related to the probability of receiving a degree within the prescribed time limit.

Incomplete Grade

An *I* grade (Incomplete) is given to students who have completed at least three quarters of the work for the course, as determined by the instructor, but who do not complete course requirements for reasons deemed acceptable to the course instructor. The *I* grade is not considered in determining the Grade Point Average, except for graduation. Students must be in good standing in the class prior to requesting an incomplete. The course instructor decides whether or not an incomplete will be granted and specifies in writing what work the student must complete to fulfill the course requirements; this remaining-requirements description is to be submitted with the University's Incomplete Grade Form, with copies to the student and the instructor. To complete the course, the student has until the end of the next fall or spring semester, whichever comes earlier, after the semester in which the incomplete grade was assigned, or the instructor may establish an earlier deadline. If extenuating circumstances exist, which prevent the student from completing the course in the prescribed time, the incomplete grade may be extended with written approval of the instructor, the instructor's chair or division head, and the appropriate dean. If the student satisfactorily completes the course in the prescribed time he/she will receive either a letter grade, a *CR* grade, or an *S* grade, depending upon what type of grade is appropriate for the course. If the student fails to complete the course requirements during the stipulated time, the grade of *I* changes to a grade of *F, NC*, or *U, depending on the type of grade appropriate for the course*. All grades remain on the student's permanent record as originally submitted by the course instructor, except for *I* grades that have been completed and changed by the instructor. Any grade change is added to the permanent record.

Independent Study

Independent Studies are tutorials, directed and independent readings, directed and independent research, problem reports, and other individualized activities which allow students to explore in depth a specific aspect of a discipline or professional field not covered by the established curriculum. The independent study topic is not covered (or not covered in sufficient depth) by courses inside or outside of the student's degree program. Written objectives of each independent study course, approved by the chair and dean, must be maintained in departmental files.

Ineligibility for Scholastic Deficiencies

See Academic Rights and Responsibilities of Students.

In-Service Teacher Restriction

In addition to offering teacher preparation programs, Marshall University is actively involved in the continuing education of all professional teachers. The West Virginia Board of Education has approved a program of continuing education for teachers and school service personnel. Information relative to a teacher's renewing a professional certificate is available from the certification specialist, College of Education and Professional Development, 304-696-2857 in Huntington and 304-746-1909 in South Charleston. The teacher must have approval of his/her renewal advisor prior to enrolling in any course which is to be used for certificate renewal, salary classification, or additional endorsements.

Major

A major is a field of study within an approved degree program, having its own prescribed curriculum. A degree program may have more than one major.

Master's Degrees

Marshall University follows The U.S. Department of Education's definition of a master's degree as a degree awarded for successful completion of a program generally requiring 1 or 2 years of full-time college-level study beyond the bachelor's degree. The Master of Arts (M.A.) and the Master of Science (M.S.) are programs offered by several of the university's colleges for advanced scholarship in the discipline and demonstrated ability to perform scholarly research. A second type of master's degree is awarded for the completion of a professionally oriented program of study in business administration (M.B.A), education (M.Ed. and M.A.T.), engineering (M.S.E.), nursing (M.S.N.), public health (M.P.H.), social work (M.S.W.), and public administration (M.P.A.). (https://nces.ed.gov/programs/coe/glossary.asp)

Marshall University offers a wide array of master's degrees. The master's may serve one or more of the following purposes: to provide greater specialization within one's area of interest; to facilitate licensure in certain fields; to provide access to Education Specialist or doctoral degrees; to support professional advancement, and to promote intellectual growth and personal fulfillment.

Medical/Emergency Withdrawal Policy

(See also Dropping Courses and Completely Withdrawing from the University)

A student may request and be considered for a medical or emergency withdrawal when extraordinary circumstances, such as a serious illness, injury, or catastrophic situation prevents the student from continuing classes. The policy covers physical and mental health, as well as life-changing difficulties.

A medical/emergency withdrawal from the university will constitute a full withdrawal from all academic classes for the requested semester, with the exception of those classes whose completion dates occurred prior to the withdrawal. Refund of tuition and fees will be a separate determination, as will eligibility for future financial aid. These decisions will follow policies, guidelines and schedules set forth by the university and state and federal government.

If a student is currently enrolled, consideration should be given to withdrawing from those courses through the regular process prior to requesting a medical/emergency withdrawal.

A request for a medical/emergency withdrawal must be filed within six months of the end of the semester involved unless the student can provide rationale and documentation to show that it was not possible to make the request within this timeframe. Students may apply for a medical/emergency withdrawal by following the guidelines provided below. Application for a medical/emergency withdrawal does not guarantee that a withdrawal will be granted. All requests are evaluated on an individual basis.

All students requesting a medical/emergency withdrawal submit a complete packet of information to the Associate Dean of Student Affairs. The packet must include:

1. Completed Request for medical/emergency withdrawal in the form of a typed, signed letter, or e-mail from the student's Marshall e-mail account, explaining how the illness, condition, or situation affected their ability to maintain their status as a student at the university and why withdrawing from courses through the regular process is/was not an option for them. The request must also include the student's Marshall ID number and mailing address. Incomplete grades in courses may be arranged in compliance with university policy, and may be an option for students to consider instead of a medical/emergency withdrawal.
2. *For medical withdrawal:* Typed letter from the student's treating physician(s) recommending a withdrawal for medical reasons. The letter must state the specific rationale for the recommendation, including diagnosis or medical impressions; why the illness or condition prevented the student from maintaining their status as a student at the university; the effective date of the onset of the illness or condition; dates of treatment; and anticipated date of resolution, if applicable. The letter must be on official letterhead and must be signed by the service provider. The letter may be faxed from the treatment provider's fax machine. Medical information will be kept confidential.

   For withdrawal due to catastrophic event: Documentation sufficient to support the student's claim of involvement in a catastrophic situation. Said documentation will vary depending on the situation and should follow guidelines set forth by the Associate Dean of Student Affairs.
   A request for a medical/emergency withdrawal without the supporting rationale will not be considered.
3. Complete Medical/Emergency Withdrawal Consultation Form, Financial Aid.
4. Complete Medical/Emergency withdrawal Consultation Form, Residence Services (if applicable)
5. Complete Medical/Emergency withdrawal Consultation Form, International Students (if applicable)
6. Other relevant supporting documentation as needed.

If the withdrawal is granted, the student will be unable to register for classes until he or she provides the Office of Student Affairs with a letter from their health care provider(s) (in the case of a medical withdrawal) releasing the student to return to the university and outlining the student's sufficient ability to manage coursework at Marshall. In the case of a catastrophic event, the student must provide a written statement that outlines the satisfactory resolution of the negative impact of the event.

The Office of Student Affairs will send a notice to the student regarding the outcome of the medical/emergency withdrawal request.

Minor

Minors approved by the Graduate Council to which code numbers have been assigned may appear on a graduate student's transcript if the following conditions are met:

- the student's advisor approves the minor courses as part of the student's Plan of Study; and
- the program offering the minor allows it to be designated as the student's minor. Such permission must be obtained in writing. The department or division chair in the minor program signs the student's Plan of Study to signify approval.

A list of graduate minors currently offered may be found in the *Programs A-Z* section of this catalog.

Multiple Degrees

See Dual Degrees.

Non-degree Students

- Persons who desire university instruction without becoming graduate degree candidates may attend as non-degree students, provided they have received a bachelor's degree from an accepted, accredited undergraduate college or university.
- Before enrolling in a class, non-degree graduate students must obtain permission from the instructor. Students wishing to take courses offered by the College of Business must secure approval of the academic advisor. The fees for attendance as a non-degree student are the same as those set for other graduate students. Non-degree enrollment for graduate courses is not available to persons under suspension by the university.
- A non-degree student who does not hold a master's or higher degree may take a maximum of 15 semester hours. Permission for non-degree students to register for additional hours beyond 15 can be granted by the Assistant Provost for Graduate Studies or the dean of the College of Education and Professional Development.
- Applicants for non-degree status will complete a Graduate Application for Admission, pay the application fee, and have the registrar send an official transcript showing proof of a bachelor's degree from an accepted, accredited undergraduate college or university not later than the scheduled time of registration.
- A person holding a graduate degree may take an unrestricted number of additional courses for which he/she has the prerequisites and departmental permission, provided both a transcript showing the undergraduate degree and a transcript showing a master's degree or higher (both from an accepted, accredited college or university) are submitted. All transcripts must be official and sent to Graduate Admissions directly from the registrar.
- Non-degree graduate students may apply later for admission to degree programs by filing the necessary documents, provided they meet the admission requirements described in the current Marshall University Graduate Catalog. However, work taken as a non-degree student cannot in itself qualify a person for admission as a degree candidate. Only credit approved by the assigned

program advisor and the appropriate dean will be counted toward a degree awarded by the university.

Online Courses

(See also Hybrid Courses)

Online courses are online versions of classes offered on the Marshall campuses in which 100% of the content is delivered asynchronously over the Internet. Online courses are designated as such in the *Schedule of Courses* (Online Course: OC).

Online courses are delivered with the Blackboard learning management system (LMS). E-mail communication and delivery of assignments, readings, and other course materials between students and instructors occurs digitally within the LMS. There are no required on-campus or real-time meetings and instructors may occasionally use MU e-mail or other forms of online contact to communicate with students. Online courses generally follow the University calendar for the term in which they are offered, but individual exceptions may apply.

Students should check the syllabus for each individual class for a beginning and ending date. Students may register for online courses using myMU during the designated registration periods each term, in person at the Registrar's Office, or by mail. Hours of enrollment are reflected in the actual term in which the student is registered. For all verification purposes, hours of enrollment are counted only in the term in which the student is registered. Note that the withdrawal period for online courses parallels that of regular courses. After that time, only a complete withdrawal from the university is allowed. The refund policy for online courses also parallels that of regular courses.

Online courses are currently assessed a fee per credit hour for graduate courses, regardless of residency or number of credit hours the student may be registered for in addition to the online courses. Current online course fees can be located on the Bursar's website at www.marshall.edu/bursar (http://www.marshall.edu/bursar/). Students may visit www.marshall.edu/muonline (http://www.marshall.edu/muonline/) for complete information on online courses, including technical requirements, student readiness, and course listing.

Note: Tuition waivers are not applicable to online courses.

Plagiarism

Plagiarism (submitting as one's own work or creation any oral, graphic, or written material wholly or in part created by another) is a form of academic dishonesty. Sanctions for academic dishonesty may range from an instructor-imposed sanction such as a failing grade in the course in which plagiarism has been documented to dismissal from the university. Refer to the section on Academic Dishonesty for the complete university policy on academic dishonesty.

Plan of Study

Each degree-seeking student at the master's or doctoral level is required to develop a "Plan of Study" with his or her graduate advisor. The Plan of Study is a student's "blueprint" for completing degree requirements. A student's certification for graduation depends on completion of the Plan of Study.

A Plan of Study approved by the department/program must be submitted for approval to the appropriate dean before the student registers for his or her 12th semester hour. Students who fail to do so will have a hold placed on subsequent enrollment. If changes are made to the Plan of Study, the student's advisor must report those changes to the appropriate dean or to his or her designee. Consult the degree programs section of the catalog for specific information about each program's Plan of Study. See Repeating Courses for more information.

Prerequisites

The purpose of prerequisites for certain courses is to assure adequate preparation of the student for the information to be presented in any particular course as well as to insure a coherent, balanced, sequential, and unified set of learning experiences. Course prerequisites may be either previous undergraduate or graduate preparation. In general, course prerequisites will not be waived except by written approval of the instructor and program director or dean.

Probation

See Academic Probation.

Program

See Degree Program.

Readmission

See Time Limitation.

Repeating Courses

Students who earn a grade of *C* or less may repeat the course with the goal of earning a higher grade. If the course is required for the student's plan of study, the more current grade will be used to fulfill degree requirements. All course grades, original and repeated, will be listed on the student's *Plan of Study* and transcript and will be used in the calculation of GPAs.

Several programs maintain a policy that stipulates dismissal of students who earn two grades of *C* or less. Repeating a course for a higher grade does not negate the existence of the former grade. As such, a student may be dismissed from the program upon earning a second grade of *C* or less even if the student repeated a course and earned a higher grade. See Grade Point Average and Other Requirements for Graduation for more information. See also *Effects of Repeated Courses* in the *Student Financial Assistance* section.

Revalidation of Coursework

See *Time Limitation*.

Roles and Responsibilities of the Thesis/Dissertation Committee

The roles and responsibilities of the faculty serving on a student's thesis/dissertation committee are manifold. In essence, the members of the committee help the student demonstrate the ability to plan and execute a scholarly and creative project while developing an expertise within the discipline. To this end, the members of the committee advise the student to ensure he or she has identified a project that will sufficiently challenge his or her skills, make use of appropriate disciplinary research and creative methods, and be completed using available resources in a timely manner. The members of the committee also ensure the highest quality of the published thesis/dissertation by requiring the student to submit a final thesis/dissertation that conforms to the preferred editorial guidelines of

the discipline and the Graduate Studies office. As such, the signature page included in the thesis/dissertation verifies that the faculty have read with care the thesis/dissertation to ensure the student's work is without error in the form, substance, and expression of the student's work. The members of the committee sign this page once the student has prepared a formal draft of the approved thesis/ dissertation and affirm that the work meets the editorial standards of Marshall University. The Graduate Studies office will review the thesis/ dissertation and may require revisions to ensure the work meets the required editorial guidelines before the thesis/ dissertation is released for publication.

Schedule Adjustment

Schedule adjustment is the adding of courses or dropping of courses, or the changing of class hours or days after a person has registered in any semester or term. The specific Schedule Adjustment Period for any semester or term is specified in the Academic Calendar for that semester or term. After the conclusion of the Schedule Adjustment Period, students are not permitted to add classes or make changes in class hours or days, nor are late registrations permitted except with the permission of the academic dean. Dropping of classes after the Schedule Adjustment Period is discussed in the section Dropping Courses.

Scholarships

For information on available graduate scholarships see www.marshall.edu/graduate (http://www.marshall.edu/graduate/).

Second Master's Degree

See Dual Degrees, Multiple Degrees.

Semester Hour

See Credit Hour.

Seminar

A seminar is a small group of students engaged in advanced study of the original research or some important recent advancements in the field. Seminars are organized under the direction of a faculty member, and credit is allowed according to university regulations for granting semester-hour credit.

Special Topics

Special Topics are experimental courses that may be offered twice by a given department with no prior committee approval. Such courses may satisfy university, college or department requirements toward a given degree and may carry specific requisites.

Seniors in Graduate Courses

See Undergraduate Enrollment in Graduate Courses.

Staff Development Courses

School personnel approved by their county school systems may use a departmental form to be admitted in the Staff Development category. Students admitted in this category are restricted to registering for Staff Development classes (560 series) in the College of Education and Professional Development for which they will receive credit/non-credit or satisfactory/unsatisfactory grades. Such classes cannot be used in degree, professional development or licensure programs. Students who wish to mix regular and Staff Development classes must seek regular admission as a graduate student.

Staff Development courses are offered exclusively as Credit/No Credit and *S/U*. They may not be taken under the audit option and may not be applied toward the credit hour requirement for a graduate degree.

Syllabus Policy

During the first two weeks of semester classes (first 3 days of each summer term), instructors must provide each student a copy of the course requirements which includes these items:

- Course name and number.
- Instructor's name, office location, phone, e-mail address and office hours.
- List of all required texts.
- Attendance policy.
- Grading policy.
- Due dates for major projects and exams.
- Course description from most recent catalog
- Course student learning outcomes.
- Schedule of class sessions and assignments.
- Grid showing how each course student learning outcome will be practiced, and assessed, in the course.
- Link to Official University Policies located on the Academic Affairs website.
- Semester course meets, e.g., Spring 2012
- Time course meets, e.g. M/W/F 1:00-1:50 p.m.
- Course location.

This policy may not apply to the following types of courses: thesis, seminar, problem report, independent study, field work, internships, practicum and medical clerkships.

Colleges may develop more detailed requirements concerning the content of the syllabus.

In many cases, syllabi will be available on the World Wide Web. In the case of an Independent Study, the student must complete the necessary form, obtain the required signatures, and submit it or a permission to enroll form to the Registrar before enrolling.

Thesis/Dissertation

Several degree programs require or allow a student to prepare a thesis/ dissertation as partial completion of the degree requirements. These programs will specify the number of credits required for the thesis/dissertation project. If optional, the thesis/dissertation advisor and student will design a project that meets departmental requirements and the student's needs and interests.

Students pursuing a master's degree who will profit more by doing additional coursework in lieu of a thesis must earn at least 36 course hours of credit in most programs.

Each student planning to write a thesis/dissertation will, in collaboration with his or her advisor, form a thesis/dissertation committee. Membership on the committee is determined by Board of Governor's Policy AA-20 which stipulates who may chair and serve on the committee. All thesis/dissertation committees must have at least a chair and two qualified faculty members. Before

starting the thesis/dissertation research, the student must submit required documentation to the Office of Research Integrity (https://www.marshall.edu/ori/) for approval.

- Students pursuing a master's degree who will prepare a thesis must register for a cumulative minimum of 3 credit hours of thesis. The maximum amount of credit that may be earned for the thesis is 6 hours for all departments except biology and chemistry. Research and thesis in those two fields are permitted to a maximum of 12 hours. Students in departments other than chemistry register for Thesis 681. Chemistry majors register for CHM 682 Research. The student continues to register for Thesis 681 or CHM 682 Research, as appropriate, and pay tuition for the number of hours per semester as agreed to between the student and the thesis advisor.
- Students pursuing a doctoral degree who will prepare with a dissertation will enroll in thesis hours as directed by the student's Plan of Study.
- Depending on the department's published grading system, the thesis/dissertation advisor reports an appropriate grade for satisfactory work at the end of each term or semester for which the student is registered with the total amount of credit to be allowed.
- The thesis/dissertation must be prepared according to the instructions provided at the Graduate Studies website, marshall.edu/graduate/etd/ (https://www.marshall.edu/graduate/etd/).
- When completed, the student submits a manuscript to the advisor and committee for tentative approval. The candidate must then give a presentation open to the academic community based upon the results of the thesis/dissertation and give a satisfactory defense of the work before the committee. Upon successful defense of the thesis/dissertation, the advisor with the concurrence of the committee assigns a grade which applies to all hours earned for the thesis.
- The members of the student's committee may require revision of the manuscript before it may be submitted for publication. Upon completion of all required revisions, they will submit the manuscript for publication following the instructions for electronic theses and dissertations (ETD's) located at: marshall.edu/graduate/etd/ (https://www.marshall.edu/graduate/etd/).
- Submission of the thesis must occur by the dates printed in the academic calendar of the term in which the student intends to graduate. If the student fails to meet these dates, the ETD Review Team may postpone the student's graduation until the end of the following term.
- The ETD Review Team will review the submitted thesis for style and format; students may be required to make modifications prior to final approval. The student is eligible to graduate once the ETD Review Director submits the manuscript for publication.
- The advisor may report a final grade of *F* or *NC* at the end of any semester or term when in his/her opinion, because of irregular reports or unsatisfactory progress, the student should not be permitted to continue to register for research.

Value and Nature of Thesis/Dissertation

The experience of collecting, assembling and interpreting a body of information for a thesis is essential in developing the capacity to do independent work. This is a primary difference between graduate and undergraduate work. For capable graduate students, preparation of the thesis/dissertation may be of great value. To be urged to write a thesis/dissertation is a compliment to one's ability. The presentation and oral defense of the project emphasizes the importance of graduate student research in the academic environment and give public credit to the student's achievements. The objectives of a thesis/dissertation project include development of the ability to plan and execute a scholarly and/or analytical study and the development of expertise in a specific subject area. The thesis should illustrate that a graduate student has:

- Comprehended the essentials of a selected subject area;
- Demonstrated understanding of the problem selected;
- Obtained working knowledge of research techniques appropriate to the graduate degree;
- Demonstrated the ability to write in a professional and scholarly style;
- Produced a study that is of value to the subject field or professional education.

Three-Plus-Two Programs

See Accelerated Graduate Degree Program and/or degree requirements section of the College of Business.

Time Limitation for Master's and Ed.S. Degrees

The time limit for the master's and Ed.S. degrees is *seven years* from the date of completion of the earliest course applied toward the degree, including transferred courses.

Time Requirement on Readmission

If a student has not completed his/her Master's or Ed.S. degree within *seven years* from the end of the first graduate course to be counted toward his/her degree, and if the student has not been enrolled in a course toward that degree for the most-recent one year when that seven-year limit is reached (meaning the seventh year), then the student will be dropped from the program. To continue to work on that degree, the student must reapply for admission to that degree program through the regular graduate admission process, and pay the appropriate admission fees.

Time Extension

To ensure that a student's knowledge base is current at the time the degree is awarded, all credit that exceeds the time limit must be revalidated.

When a student requests an extension of time, the advisor and program director or department chair should review the program of study, identify coursework which exceeds the time limit, and make a recommendation for revalidation of expired coursework through one or more of the following options: (*Note:* the current fee for course revalidation is $25/credit hour)

- Option 1: Examination: A validation exam shall be the equivalent to a comprehensive final exam for the course. In most cases, validation must be done by a written exam.
- Option 2: Independent Study: The department or program may elect to design an independent study if no course currently exists by which the student may update course content.
- Option 3: The student may repeat expired coursework.

- Option 4: Additional Hours: The department or program may assign additional hours of course work to ensure currency of knowledge in rapidly changing content areas.
- Option 5: Portfolio that revalidates objectives of course(s) and degree objectives (may include work experiences, thesis or final project).

Decisions about revalidation of credit are forwarded to the dean of the academic unit for approval. When the student has satisfied the conditions imposed for revalidation, the signed Plan of Study with a memorandum from the chair/program director confirming that the conditions were completed satisfactorily will be forwarded to the dean of the academic unit with the completed application for graduation. The memorandum will include a statement of evidence of completion (e.g., examination, grade report, portfolio).

Outdated courses which are not revalidated will not be used in computing Grade Point Averages for graduation, but they will remain on the record.

Students completing programs in the College of Education and Professional Development which lead to certification should contact the Dean of the College of Education and Professional Development for additional information on time limitations.

Transcript

Official transcripts cost $10.00 per paper copy and $12.00 per electronic copy. The Office of the Registrar will process transcript requests within 1-2 business days of receipt. Processing time may be delayed at the end of a term due to posting grades and degrees. Students with outstanding social or other obligations to the university forfeit rights to an official or unofficial transcript until the obligations are resolved.

Requests for official transcripts must be sent directly to the Office of the Registrar. Requests for official transcripts can be completed at https://www.marshall.edu/registrar/transcripts (https://www.marshall.edu/registrar/transcripts/), faxed, or made in person at the Office of the Registrar.

Students may obtain unofficial transcripts at no cost in the registrar's office or the college dean's office. Unofficial transcripts also may be accessed using the university's online self-service portal, myMU.

Transfer of Graduate Credits

A student with an approved Plan of Study may transfer to Marshall University credit earned in graduate coursework completed at another accepted, accredited graduate institution provided that the courses are appropriate to the student's program, acceptable to the advisor and college dean, all earned grades are equivalent to *B* or better, and courses do not exceed the time limitation of seven years from the date of enrollment in the first graduate course (Marshall course or transferred course) to be applied toward meeting degree requirements of the student's program. For master's, education specialist, and doctoral degree programs, transfer credits may not exceed 12 hours or one-third of the hours on the plan of study, whichever is higher. For graduate certificate programs, transfer credits may not exceed 6 credit hours. Individual programs may establish stricter limits on the number of transfer hours allowed. Exceptions to the limitation on the number of transfer hours must be approved by the Chief Academic Officer. Graduate credits transferred from other institutions will not become a part of the Grade Point Average recorded on the student's Marshall University transcript and will simply meet credit hour requirements toward graduation.

Transient Students

A student who is enrolled at another accredited graduate institution may, upon submission to the Graduate Admissions office an admission application and a letter of good standing from the home university, enroll for Marshall University graduate coursework. This admission is valid for one semester only. The student must submit a new application and letter of good standing each semester he/she wishes to attend.

Normally, up to twelve credit hours of coursework may be transferred back to the home institution.

Permission to transfer credits is arranged, by the student, with the home university. Transient students who wish to register for coursework beyond twelve credit hours at Marshall are required to obtain the approval of Marshall University's Graduate Dean.

Undergraduate Students in Graduate Courses

Seniors with a cumulative GPA of at least 2.75 may register for graduate classes (500 and 600 series) after they have received approval from their undergraduate dean, the chair of the department offering the course, and the appropriate college/school dean. Complete applications (available at the Graduate Studies website or the Graduate Studies office) must be on file in the appropriate dean's office and permission secured prior to the opening of the term of enrollment. Credit for graduate courses completed as a senior can be applied to either an undergraduate or a graduate degree at Marshall University but not to both. No more than 12 graduate hours may be taken as an undergraduate.

Withdrawal from the University

See Dropping Courses and Completely Withdrawing from the University *or* Medical Withdrawal.

Workshops

Workshops are highly practical, participatory courses usually designed for advanced students or professionals. They provide experience or instruction in a new technique, theory or development in a given discipline. If credit is granted, appropriate university guidelines will be followed.

Degree Programs by College

College of Arts and Media (p. 69)

Dr. Maria Gindhart, Dean
www.marshall.edu/cam (http://www.marshall.edu/cam/)

- Music, M.A.

College of Business (p. 79)

Dr. Rohan Christie-David, Dean
www.marshall.edu/cob (http://www.marshall.edu/cob/)

- Accountancy, M.S.
- Business Administration, D.B.A.

- Business Administration, M.B.A.
- Health Care Administration, M.S.
- Health Informatics, M.S.
- Human Resource Management, M.S.
- Information Systems, M.S.
- Doctor of Nurse Anesthesia Practice, D.N.A.P.
- Sport Administration, M.S.

Other programs: graduate certificates in Data Analytics in Health Care, Lab Management, and Technology Management.

College of Education and Professional Development (p. 104)

Dr. Kelly Bradley, Dean
www.marshall.edu/coepd (http://www.marshall.edu/coepd/)

- Adult and Continuing Education, M.S.
- Applied Behavior Analysis, M.A.
- Counseling, M.A.
- Curriculum and Instruction, Ed.D.
- Education, M.A.
- Education Specialist, Ed.S.
- Leadership Studies, Ed.D.
- Leadership Studies, M.A.
- Literacy Education, M.A.
- School Psychology, Ed.S.
- Special Education, M.A.
- Teaching, M.A.T.

Other programs: graduate certificates, teacher endorsements

College Of Engineering And Computer Sciences (p. 162)

Dr. David Dampier, Dean
www.marshall.edu/cecs (http://www.marshall.edu/cecs/)

- Civil and Environmental Engineering, M.S.E.
- Computer Science, M.S.
- Cybersecurity, M.S.
- Data Science, M.S.
- Electrical and Computer Engineering, M.S.E.E.
- Engineering Management, M.S.E.
- Engineering, Ph.D.
- Environmental, Safety and Health, M.S.
- Mechanical Engineering, M.S.M.E.
- Safety, M.S.

Other programs: minors in Environmental Science and Safety.

College of Health Professions (p. 194)

Dr. Michael Prewitt, Dean
www.marshall.edu/cohp (http://www.marshall.edu/cohp/)

- Athletic Training (Professional), M.S.
- Biomechanics, M.S.
- Communication Disorders, M.S.
- Dietetics, M.S.
- Exercise Physiology, M.S.
- Nursing, M.S.N.
- Nursing Practice, D.N.P.
- Physical Therapy, D.P.T.
- Public Health, M.P.H.
- Social Work, M.S.W.
- Sports Science, M.S.
- Strength and Conditioning, M.S.

Other programs: graduate certificates in Family Nurse Practitioner (post master's), Gerontology Social Work, School Social Work.

College of Liberal Arts (p. 246)

Dr. Kelli Prejean, Interim Dean
www.marshall.edu/cola (http://www.marshall.edu/cola/)

- Communication Studies, M.A.
- English, M.A.
- Geography, M.A., M.S.
- History, M.A.
- Humanities, M.A.
- Psychology, M.A.
- Doctor of Psychology, Psy.D.
- Public Administration, M.P.A.
- Sociology, M.A.

Other programs: minors in Anthropology, Geography, History, Philosophy, Psychology, and Sociology; graduate certificates in Accessibility Awareness, Aging in Appalachia, Appalachian Studies, Behavioral Statistics, Geospatial Information Science, Human Geography, Latin, Meteorology, Nonprofit Management, Psychology (post-master's), Public History, Women's Studies.

College of Science (p. 302)

Dr. Wesley Stites, Dean
www.marshall.edu/cos (http://www.marshall.edu/cos/)

- Biological Sciences, M.A., M.S.
- Chemistry, M.S.
- Criminal Justice, M.S.
- Forensic Science, M.S.
- Mathematics, M.S.
- Natural Resources and the Environment, M.S.
- Physical and Applied Sciences, M.S.
- Physics, M.S.

Other programs: minors in Criminal Justice, Geobiophysical Science, Mathematics; graduate certificate in Digital Forensics.

School of Library Science (p. 332)

Dr. Monica Brooks, Dean
www.marshall.edu/library (https://www.marshall.edu/library/)

- Library Science, M.S.

Joan C. Edwards School of Medicine (p. 335)

Dr. David Gozal, Dean and Vice President for Health Affairs
http://musom.marshall.edu

- Biomedical Research, M.D., Ph.D., M.S.
- Clinical and Translational Science, M.S.
- Physician Assistant, M.M.S.

School of Pharmacy (p. 353)

Dr. Eric Blough, Dean
www.marshall.edu/pharmacy (http://www.marshall.edu/pharmacy/)

- Pharmacy, Pharm.D.
- Pharmaceutical Sciences, M.S.
- Pharmaceutical Sciences, M.A.

Graduate Programs A-Z

A

- Accessibility Awareness, Graduate Certificate (p. 274)
- Accountancy, M.S. (p. 91)
- Adult and Continuing Education, M.S. (p. 133)
- Adult Education and Evaluation (p. 135)
- Advanced Standing Behavioral Health Administration, Emphasis (p. 242)
- Aging in Appalachia, Graduate Certificate (p. 274)
- Anthropology, Minor (p. 275)
- Appalachian Studies, Graduate Certificate (p. 275)
- Applied Behavior Analysis, M.A. (p. 135)
- Athletic Training (Professional), M.S. (p. 211)

B

- Behavioral Health Practice, Emphasis (p. 243)
- Behavioral Statistics, Graduate Certificate (p. 275)
- Biological Sciences M.A., Accelerated Graduate Degree (p. 316)
- Biological Sciences M.S., Accelerated Graduate Degree (p. 316)
- Biological Sciences, M.A. (p. 317)
- Biological Sciences, M.S. (p. 318)
- Biomechanics, M.S. (p. 213)
- Biomedical Research, M.D./Ph.D. (p. 342)
- Biomedical Research, M.S. (p. 345)
- Biomedical Research, Ph.D. (p. 346)
- Business Administration, D.B.A. (p. 92)
- Business Administration, M.B.A. (p. 94)
- Business Analysis and Reporting, Emphasis (p. 92)

C

- Career and Technical Center Teaching (p. 135)
- Chemistry, M.S. (p. 319)
- Civil and Environmental Engineering, Accelerated Graduate Degree (p. 174)
- Civil and Environmental Engineering, M.S.E. (p. 174)
- Clinical and Translational Science, M.S. (p. 348)
- Clinical Trials (p. 350)
- Communication Disorders, M.S. (p. 213)
- Communication Studies, M.A. (p. 276)
- Computer Science, Accelerated Graduate Degree (p. 176)
- Computer Science, M.S. (p. 177)
- Counseling, Accelerated Graduate Degree (p. 136)
- Counseling, M.A. (p. 136)
- Counseling, R.B.A. Accelerated Graduate Degree (p. 140)
- Crime Scene Investigation, Emphasis (p. 325)
- Criminal Justice, Accelerated Graduate Degree (p. 320)
- Criminal Justice, M.S. (p. 321)
- Criminal Justice, Minor (p. 322)
- Curriculum and Instruction, Ed.D. (p. 141)
- Curriculum and Instruction, Emphasis in Ed.S. (p. 148)
- Cybersecurity and Policy, Emphasis (p. 298)
- Cybersecurity, Accelerated Graduate Degree (p. 178)
- Cybersecurity, M.S. (p. 179)

D

- Data Analytics in Health Care, Graduate Certificate (p. 96)
- Data Science, Accelerated Graduate Degree (p. 180)
- Data Science, M.S. (p. 181)
- Dietetics, M.S. (p. 217)
- Digital Forensics, Emphasis (p. 325)
- Digital Forensics, Graduate Certificate (p. 322)
- DNA Analysis, Emphasis (p. 325)

E

- Early Childhood Education, Emphasis in M.A. (p. 146)
- Early Childhood Education, Graduate Certificate (p. 143)
- Education, M.A. (p. 144)
- Educational Leadership, Emphasis (p. 152)
- Educational Leadership, Post Masters Certificate (p. 148)
- Educational Specialist, Ed.S. (p. 148)
- Electrical and Computer Engineering M.S.E.E. (p. 182)
- Electrical and Computer Engineering, Accelerated Graduate Degree (p. 184)
- Elementary Mathematics Specialist, Emphasis in M.A. (p. 147)
- Elementary Mathematics Specialist, Graduate Certificate (p. 149)
- Engineering Management, B.S.C.E. Accelerated Graduate Degree (p. 184)
- Engineering Management, B.S.E.E. Accelerated Graduate Degree (p. 185)
- Engineering Management, M.S.E. (p. 186)
- Engineering, Ph.D. (p. 187)
- English, M.A. (p. 276)
- Environmental Safety and Health, Accelerated Graduate Degree (p. 189)
- Environmental Science, Minor (p. 190)

- Environmental, Safety and Health, M.S. (p. 190)
- Exercise Physiology, M.S. (p. 218)

F

- Family Nurse Practitioner (p. 225)
- Family Nurse Practitioner Program, Post Master's Certificate (p. 219)
- Forensic Chemistry, Emphasis (p. 326)
- Forensic Science, M.S. (p. 323)

G

- Geobiophysical Science, Minor (p. 326)
- Geography M.A., Accelerated Graduate Degree (p. 277)
- Geography M.S., Accelerated Graduate Degree (p. 278)
- Geography, M.A. (p. 279)
- Geography, M.S. (p. 280)
- Geography, Minor (p. 281)
- Geospatial Information Science, Graduate Certificate (p. 282)
- Gerontology Social Work, Graduate Certificate (p. 219)
- Government Relations, Emphasis (p. 298)

H

- Health Care Administration, M.S. (p. 96)
- Health Informatics, M.S. (p. 98)
- History, M.A. (p. 283)
- History, Minor (p. 284)
- Human Geography, Graduate Certificate (p. 284)
- Human Resource Management, M.S. (p. 99)
- Humanities, M.A. (p. 284)

I

- Individualized Plan of Study, Emphasis in M.A. (p. 147)
- Information Systems and Controls, Emphasis (p. 92)
- Information Systems, Accelerated Graduate Degree (p. 100)
- Information Systems, M.S. (p. 100)
- Instructional Processes and Strategies, Emphasis in M.A. (p. 147)
- Instructional Technology and Learning, Emphasis in M.A. (p. 147)
- Instructional Technology and Learning, Graduate Certificate (p. 149)

L

- Lab Management, Graduate Certificate (p. 101)
- Latin, Graduate Certificate (p. 285)
- Leadership Specialist, Emphasis (p. 152)
- Leadership Studies, Ed.D. (p. 149)
- Leadership Studies, M.A. (p. 151)
- Library Science, M.S. (p. 333)
- Literacy Education, Graduate Certificate (p. 153)
- Literacy Education, M.A. (p. 153)

M

- Mathematics through Algebra I, Emphasis in M.A. (p. 147)
- Mathematics through Algebra I, Graduate Certificate (p. 154)
- Mathematics, M.S. (p. 326)
- Mathematics, Minor (p. 328)
- Mechanical Engineering, M.S.M.E. (p. 191)
- Medical Science, Graduate Certificate (p. 350)
- Meteorology, Graduate Certificate (p. 286)
- Music Composition, Emphasis (p. 77)
- Music, M.A. (p. 75)

N

- Natural Resources and the Environment, M.S. (p. 328)
- Nonprofit Leadership, Emphasis (p. 298)
- Nonprofit Management, Graduate Certificate (p. 286)
- Nurse Anesthesia Practice, D.N.A.P. (p. 101)
- Nurse Midwifery (p. 226)
- Nursing Administration (p. 227)
- Nursing Education (p. 227)
- Nursing Practice, D.N.P. (p. 220)
- Nursing, M.S.N. (p. 222)

P

- Pharmaceutical Sciences, B.S. to Pharm.D. (3+4 Accelerated Program) (p. 358)
- Pharmaceutical Sciences, M.A. (Non-Thesis Option) (p. 359)
- Pharmaceutical Sciences, M.S. (p. 360)
- Pharmacy, Dual Degree: Pharm.D. and M.B.A. (p. 361)
- Pharmacy, Pharm.D. (p. 361)
- Philosophy, Minor (p. 286)
- Physical and Applied Sciences, Geology Emphasis (p. 330)
- Physical and Applied Sciences, M.S. (p. 329)
- Physical Therapy, D.P.T. (p. 228)
- Physical Therapy, Dual Degree: D.P.T. and M.B.A. (p. 234)
- Physician Assistant, M.M.S. (p. 351)
- Physics for Teachers, Emphasis (p. 330)
- Physics, Accelerated Graduate Degree (p. 331)
- Physics, M.S. (p. 331)
- Planning and Economic Development, Emphasis (p. 299)
- Post-Baccalaureate Teacher Certificate (p. 154)
- Psychiatric Mental Health Nurse Practitioner (p. 227)
- Psychology (Clinical), Post-Master's Certificate (p. 286)
- Psychology (Clinical), Psy.D. (p. 287)
- Psychology, Accelerated Graduate Degree (p. 292)
- Psychology, M.A. (p. 293)
- Psychology, Minor (p. 296)
- Public Administration, Accelerated Graduate Degree (p. 296)
- Public Administration, M.P.A. (p. 297)
- Public Health, Accelerated Graduate Degree (p. 235)
- Public Health, M.P.H. (p. 236)
- Public History, Graduate Certificate (p. 299)

S

- Safety, M.S. (p. 193)
- Safety, Minor (p. 194)

- School Counseling, Emphasis (p. 139)
- School Library Media Specialist, Emphasis in M.A. (p. 147)
- School Library Media Specialist, Graduate Certificate (p. 155)
- School Psychology, Ed.S. (p. 156)
- School Social Work, Graduate Certificate (p. 236)
- School Superintendent, Licensure (p. 157)
- Social Service and Attendance, Certificate/Licensure (p. 157)
- Social Work, Accelerated Graduate Degree (p. 237)
- Social Work, M.S.W. (p. 238)
- Sociology, Accelerated Graduate Degree (p. 299)
- Sociology, M.A. (p. 300)
- Sociology, Minor (p. 301)
- Special Education, M.A. (p. 157)
- Sport Administration, Accelerated Graduate Degree (p. 101)
- Sport Administration, M.S. (p. 102)
- Sports Science, M.S. (p. 244)
- Statistics, Emphasis (p. 328)
- Strength and Conditioning, M.S. (p. 245)
- Supervisor of Instruction, Licensure (p. 159)

T

- Tax Compliance and Planning, Emphasis (p. 92)
- Teaching English as a Second Language (Non-Licensure), Graduate Certificate (p. 160)
- Teaching English as a Second Language, Non-Licensure, Emphasis in M.A. (p. 147)
- Teaching, M.A.T. (p. 160)
- Technology Management, Graduate Certificate (p. 103)

V

- Violence, Loss and Trauma Counseling, Graduate Certificate (p. 161)

W

- Women's Studies, Graduate Certificate (p. 302)

College of Arts and Media

Contacts: Dr. Maria Gindhart, Dean; Dr. Vicki Stroeher, Associate Dean
Website: https://www.marshall.edu/cam (https://www.marshall.edu/cam/)

The **College of Arts & Media** at Marshall University includes the School of Art & Design, the W. Page Pitt School of Journalism & Mass Communications, the School of Music, and the School of Theatre & Dance.

The college is also home to the Marshall Artists Series; the student newspaper, *The Parthenon*; the student radio station, WMUL-FM; the student-produced television news broadcast, MU Report; JMCTV; Collective 37, a student-run advertising and public relations agency; the Marching Thunder; MU jazz festivals; MU Theatre productions; and the Birke, Carroll, and Pneumatic Art Galleries.

The College of Arts & Media offices are in various locations across campus.

- Dean's Office Smith Hall 158
- School of Art & Design Visual Arts Center 601
- W. Page Pitt School of Journalism & Mass Communications Building 100 Communications
- School of Music Smith Music Hall 154
- School of Theatre & Dance Center 230 JCE Performing Arts
- Marshall Artists Series Jomie Jazz Center

Art & Design courses, including filmmaking, are taught in the Visual Arts Center and the Art Warehouse. Journalism & Mass Communications courses are taught in Smith Hall and the Communications Building. Music courses are taught in Smith Music Hall, the Jomie Jazz Center, and the Henderson Center band facility. Theatre & Dance courses are taught in the Joan C. Edwards Performing Arts Center.

Mission Of The College

The College of Arts & Media is dedicated to the advancement of excellence, creativity, and integrity through arts and media. We value academic and creative excellence, global citizenship, collaboration and dialogue, community engagement and enrichment, and sustainability and innovation.

Our students receive professional, discipline-based training within the context of broad learning. They become critical thinkers, creative problem solvers, and collaborators. They are prepared for productive lives as global citizens and 21st- century leaders through their professions and in their communities.

The specific goals of the College of Arts & Media are:

1. To offer quality relevant, innovative, and inclusive curricula in the arts and in media that prepare our students for their futures;
2. To empower and sustain faculty and staff in their continued development and scholarly/creative endeavors;
3. To develop robust community relationships and provide quality arts and media programming for the university, region, state, and beyond; and,
4. To maintain a college of excellence through strategic growth in enrollment and funding.

Programs Of The College

The curricula of the College of Arts & Media are designed to certify that, upon graduation, students have completed a program that leads to development of the ability:

1. To recognize, investigate, and solve problems through critical thinking, analysis, and the application of appropriate research and creative strategies;
2. To integrate an array of skills and knowledge in preparation for a professional career; and,
3. To demonstrate an awareness of the value of the arts and media in society and in the global community in preparation for becoming citizen-artists.

Special Opportunities For All Students

Center for Wellness in the Arts

In August of 2014, the College of Arts & Media and the College of Health Professions launched an exciting venture on behalf of students that has become the Marshall University Center for Wellness in the Arts (CWA). The center is a place where performing and visual artists can be evaluated by licensed athletic trainers, skilled vocal and hearing clinicians, dietitians, exercise physiologists, and performance anxiety specialists who have the proper knowledge and equipment to assess discipline-specific health risks and offer wellness strategies. The CWA contributes to the academic and professional development of students and faculty through education, treatment, and research.

The CWA draws upon university resources in behavioral and physical health, exercise science, communication disorders, and speech and hearing, to provide students with a groundbreaking system of support and learning. Rejecting the premise that a certain amount of pain is part of the artist's process, the CWA promotes a culture in which pain is a problem to be treated and wellness is an essential component of successful careers in the arts. For further information, please consult the CWA website at www.marshall.edu/cwa (http://www.marshall.edu/cwa/).

Exhibitions

The Visual Arts Center across from Pullman Square at 927 Third Avenue in downtown Huntington features student, faculty, and guest artist exhibitions in three galleries—the Birke Gallery, the Charles W. and Norma C. Carroll Art Gallery, and the Pneumatic Gallery. These galleries are open year-round and are free to students and the public.

Non-major Participation in Arts and Media Courses and Minors

Students wishing to develop or advance their artistic, journalistic, mass communications, musical, or theatrical skills are welcome to enroll in courses in the college and to join the various student organizations. Students who desire a minor in the arts or journalism and mass communications should refer to the school listings for the sequence of courses in each program.

Music and Theatre Performances and Productions

All university students are encouraged to participate in the many music ensembles and theatrical productions offered by the School of Music and the School of Theatre & Dance.

Professional and Student Organizations

The College of Arts & Media houses a number of professional and student organizations that enhance and explore various aspects of its majors and areas of specialization. Please consult with the school director(s) for more information.

Student Media

The student newspaper, *The Parthenon*, is published Monday through Friday online and in print Wednesdays during the fall and spring semesters. The student radio station, WMUL-FM, 88.1 FM, is on the air 24 hours daily throughout the year. All university students are encouraged to volunteer at WMUL-FM. MU Report is a student-produced, 15-minute television newscast seen throughout West Virginia on public television. Collective 37 is a student-run advertising and public relations agency serving the Huntington campus and communities.

Community Engagement

The College of Arts & Media enriches the Huntington campus and regional community with many performances, exhibitions, broadcasts, publications, lectures, and special presentations. Students are cordially welcomed to all events and are urged to explore the excitement, enrichment, and entertainment offered by the College of Arts & Media.

As the second oldest town and gown organization in the U.S., the Marshall Artists Series presents a variety of professional arts programs for students and the general public. Programming includes Broadway, music, authors, comedy, opera, dance, and international films. Tickets are available to students at no charge. For information, call 304-696-3326 or visit www.marshallartistsseries.org (https://nam02.safelinks.protection.outlook.com/?url=http%3A%2F%2Fwww.marshallartistsseries.org%2F&data=05%7C02%7Cjennifer.morgan%40marshall.edu%7C2776daffb3294a52b3ff08dda75a8034%7C239ab2783bba4c78b41d8508a541%7CTWFpbGZsb3d8eyJFbXB0eU1hcGkiOnRydWUsIlYiOiIwLjAuMDAwMCIsIlAiOiJXa%3D%3D%7C0%7C%7C%7C&sdata=4Z6AUJox2ENcyC3%2Bwok8BaYFW7ROYSiywcdvAemNotg%3D&reserved=0).

The School of Art & Design presents exhibitions in multiple venues.

The Parthenon, MU Report, and WMUL in the School of Journalism & Mass Communications inform the community.

Marshall University Music presents many recitals and concerts by its faculty, students, and ensembles, in addition to programs featuring guest artists.

Throughout the academic year, the School of Theatre & Dance stages many theatrical and dance productions.

Programs

- Music, M.A. (p. 75)

Courses

Applied Music

MUSA 676 Graduate Recital **1 Credit hour**
The culminating recital for graduate-level applied music study in the principal applied area.
Grade Mode: Normal Grading Mode

MUSA 680 Original Composition **2 Credit hours**
Master's level individual studies in composition. May be repeated for credit.
Grade Mode: Normal Grading Mode

MUSA 681 Saxophone **1-2 Credit hours**
Master's level individual studies in saxophone. May be repeated for credit.
Grade Mode: Normal Grading Mode

MUSA 682 Flute **1-2 Credit hours**
Master's level individual studies in flute. May be repeated for credit.
Grade Mode: Normal Grading Mode

MUSA 683 Oboe **1-2 Credit hours**
Master's level individual studies in oboe. May be repeated for credit.
Grade Mode: Normal Grading Mode

MUSA 684 Clarinet **1-2 Credit hours**
Master's level individual studies in clarinet. May be repeated for credit.
Grade Mode: Normal Grading Mode

MUSA 685 Bassoon **1-2 Credit hours**
Master's level individual studies in bassoon. May be repeated for credit.
Grade Mode: Normal Grading Mode

MUSA 686 French Horn **1-2 Credit hours**
Master's level individual studies in French horn. May be repeated for credit.
Grade Mode: Normal Grading Mode

MUSA 687 Trumpet **1-2 Credit hours**
Master's level individual studies in trumpet. May be repeated for credit.
Grade Mode: Normal Grading Mode

MUSA 688 Trombone **1-2 Credit hours**
Master's level individual studies in trombone. May be repeated for credit.
Grade Mode: Normal Grading Mode

MUSA 689 Euphonium **1-2 Credit hours**
Master's level individual studies in euphonium. May be repeated for credit.
Grade Mode: Normal Grading Mode

MUSA 690 Tuba **1-2 Credit hours**
Master's level individual studies in tuba. May be repeated for credit.
Grade Mode: Normal Grading Mode

MUSA 691 Violin **1-2 Credit hours**
Master's level individual studies in violin. May be repeated for credit.
Grade Mode: Normal Grading Mode

MUSA 692 Viola **1-2 Credit hours**
Master's level individual studies in viola. May be repeated for credit.
Grade Mode: Normal Grading Mode

MUSA 693 Cello **1-2 Credit hours**
Master's level individual studies in cello. May be repeated for credit.
Grade Mode: Normal Grading Mode

MUSA 694 String Bass **1-2 Credit hours**
Master's level individual studies in string bass. May be repeated for credit.
Grade Mode: Normal Grading Mode

MUSA 695 Piano **1-2 Credit hours**
Master's level individual studies in piano. May be repeated for credit.
Grade Mode: Normal Grading Mode

MUSA 696 Voice **1-2 Credit hours**
Master's level individual studies in voice. May be repeated for credit.
Grade Mode: Normal Grading Mode

MUSA 697 Organ **1-2 Credit hours**
Master's level individual studies in organ. May be repeated for credit.
Grade Mode: Normal Grading Mode

MUSA 698 Percussion **1-2 Credit hours**
Master's level individual studies in percussion. May be repeated for credit.
Grade Mode: Normal Grading Mode

MUSA 699 Guitar **1-2 Credit hours**
Master's level individual studies in guitar. May be repeated for credit.
Grade Mode: Normal Grading Mode

Music

MUS 502 Grad Music History Rev 2 **2 Credit hours**
Review of the history of Western music from 1750 to the present for entering graduate students who are deficient or wish to review their content knowledge.
Grade Mode: Normal Grading Mode

MUS 510 Intro to World Music **3 Credit hours**
This course will survey native musics of Africa, Asia, and the Americas as an aspect of culture. No formal background in music is required, as students will learn techniques for listening and articulating responses to music.
Grade Mode: Normal Grading Mode

MUS 511 Orff-Schulwerk **3 Credit hours**
Experiences in Orff-Schulwerk include poetry, rhymes, games, songs and dances in teaching music. Singing, movement, and instrument playing and the spoken word are the primary learning tools.
Grade Mode: Normal Grading Mode

MUS 512 Adv Jazz Ped & Cond **3 Credit hours**
Advanced study of methods and materials for jazz curriculum. Ensemble organization, rehearsal and conducting techniques. Selection of literature and equipment. Organization and presentation of public performances.
Grade Mode: Normal Grading Mode

MUS 513 Adv Jazz Styles / Analysis **2 Credit hours**
Advanced study of structural forms used in jazz. Detailed analysis of extended forms. Techniques for solo transcriptions. Harmonic practices in specific styles. In-depth study of significant jazz composers, performers, genres.
Grade Mode: Normal Grading Mode

MUS 532 Music Production **2 Credit hours**
Music production techniques for a variety of genres using a digital audio workstation.
Grade Mode: Normal Grading Mode

MUS 540 Graduate Theory Review **3 Credit hours**
Review of undergraduate music theory for entering graduate students who are deficient or wish to review music theory skills. Pre: Graduate standing or POI.
Grade Mode: Normal Grading Mode

MUS 550 Guitar Literature **2 Credit hours**
A survey of the literature for guitar from c. 1400 to the twentieth century.
Grade Mode: Normal Grading Mode

MUS 551 Guitar Pedagogy **2 Credit hours**
A survey of guitar pedagogy literature, and a practicum in teaching classical guitar.
Grade Mode: Normal Grading Mode

MUS 552 Cello Ensemble **1 Credit hour**
Cello students will rehearse and perform works from the major literature for cello ensemble.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 554 Flute Ensemble **1 Credit hour**
Performs a wide variety of musical styles from full choir to quartets, trios, etc. (PR: Audition)
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 566 Marching Thunder **1 Credit hour**
The Marching Thunder rehearses three times a week and performs a varied selection of music every home game as well as exhibitions around the country.
Attributes: No Textbook Required, Onsite Learning Experience
Grade Mode: Normal Grading Mode

MUS 568 Sixth Man Band **1 Credit hour**
The Marshall University Sixth Man Band performs at all home men's and women's basketball games. The band provides music to enhance the overall game experience for players and fans.
Attributes: No Textbook Required, Onsite Learning Experience
Grade Mode: Normal Grading Mode

MUS 570 Musical Prods Practicum **1 Credit hour**
Specialized practical training in aspects of performance production, preparation, and execution. May be repeated once. may be taken four times.
Grade Mode: Normal Grading Mode

MUS 572 Fife and Drum Corps **1 Credit hour**
Performing/marching/uniformed ensemble devoted to the music of the American Revolution and Chief Justice John Marshall. Instruments featured include fifes and drums. (PR: Permission or Audition Required)
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 574 Irish Ceili Band **1 Credit hour**
Ensemble devoted to the performance of Irish Ceili and dance music.
Grade Mode: Normal Grading Mode

MUS 580 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

MUS 581 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

MUS 582 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

MUS 583 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

MUS 585 Independent Study **1-4 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 586 Independent Study **1-4 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 587 Independent Study **1-4 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 588 Independent Study **1-4 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 601 Orchestral Literature **3 Credit hours**
A survey of orchestra literature beginning with the 16th century; the Mannheim composers, Viennese classics, the Romantists, the national schools, and late European, South American and American developments.
Grade Mode: Normal Grading Mode

MUS 602 Band/Wind Ens Lit **3 Credit hours**
A survey of major works originally written for wind band, major transcriptions, and works in all grade levels for school bands.
Grade Mode: Normal Grading Mode

MUS 604A Keyboard Literature **2 Credit hours**
A survey ofkeyboard literature from the 14th to the 20th century. Emphasis is on stylistic developments and formal procedures.
Grade Mode: Normal Grading Mode

MUS 604B Chamber Music Literature **2 Credit hours**
A survey of chamber music literature from the Baroque Era to the 20th century. Analysis of form emphasized in the study of string quartet trio, quintet, and various other combinations.
Grade Mode: Normal Grading Mode

MUS 604C Song Literature **2 Credit hours**
The song literature of Western Europe and America, also including contemporary material from other countries; interpretation, song study, program building, languages, and interpretation of accompaniments. For singers and accompanists.
Grade Mode: Normal Grading Mode

MUS 604D Choral Literature **2 Credit hours**
A comprehensive study of the forms and styles of Choral Composition from Renaissance to present day.
Grade Mode: Normal Grading Mode

MUS 604F Percussion Lit **2 Credit hours**
A survey of instructional and performance literature for solo brass instruments and brass ensembles.
Grade Mode: Normal Grading Mode

MUS 604G String Literature **2 Credit hours**
A survey of instructional and performance literature for solo violin, viola, cello, bass, guitar, and string ensembles.
Grade Mode: Normal Grading Mode

MUS 604H Woodwind Literature **2 Credit hours**
A survey of instructional and performance literature for flute, oboe, clarinet, bassoon and/or saxophone in both solo and ensemble settings.
Grade Mode: Normal Grading Mode

MUS 604I Brass Literature **2 Credit hours**
A survey of instructional and performance literature for solo brass instruments and brass ensembles.
Grade Mode: Normal Grading Mode

MUS 610 Hist and Phil of Music Ed **3 Credit hours**
Basic concepts of music education and their application to problems of music teaching, supervision and administration.
Grade Mode: Normal Grading Mode

MUS 611 Music Psy and Lrng Theory **3 Credit hours**
Vibrational stimuli, resultant reactions, and factors involved in development of musical skills, as well as measures of aptitude and achievement.
Grade Mode: Normal Grading Mode

MUS 612 Projects & Problems Music **1-3 Credit hours**
Detailed investigation of problems and/or projects in the student's area of specialization.
Grade Mode: Normal Grading Mode

MUS 614 Sem in Teach Mus Appreciation **1 Credit hour**
Methods and materials for teaching music appreciation. Required of all graduate assistants teaching MUS 142 Music Appreciation. May be repeated for credit.
Grade Mode: Normal Grading Mode

MUS 615 Adv Tech for Marching Band **3 Credit hours**
The marching band. The marching and musical problems which are encountered in training and operating a band for football games and other events involving marching and playing.
Grade Mode: Normal Grading Mode

MUS 616 Mus Curr and Admin **3 Credit hours**
Survey of recent developments in public school curricula and their effect on music offerings. Preparation of course and curricular content.
Grade Mode: Normal Grading Mode

MUS 617 Seminar Music Education **3 Credit hours**
Specialized study of advanced concepts and current problems in music education.
Grade Mode: Normal Grading Mode

MUS 619A Seminar in Vocal Pedagogy **2 Credit hours**
A study of the techniques of singing and their application to private and class voice instruction. Emphasis placed upon diagnosis of problems, and teaching under supervision.
Grade Mode: Normal Grading Mode

MUS 619B Seminar in Piano Pedagogy **2 Credit hours**
An analytical survey of developments in piano techniques and pedagogical procedures with open discussions on various facets of piano teaching.
Grade Mode: Normal Grading Mode

MUS 620A Instrumental Tech and Material **3 Credit hours**
Problems of the instrumental teacher at all levels; practical work in the techniques of handling beginning classes and ensembles of all types.
Grade Mode: Normal Grading Mode

MUS 620B Choral Tech and Materials **3 Credit hours**
A practicum approach to problems of choral techniques and materials with special emphasis placed upon high school and junior high school levels.
Grade Mode: Normal Grading Mode

MUS 620C Elem Tech and Materials **3 Credit hours**
A practical approach to techniques and materials in elementary music examining a variety of learning modalities.
Grade Mode: Normal Grading Mode

MUS 621 Music Research Methods **3 Credit hours**
Introduction to music research with emphasis on investigative methods and applications, procedures, and bibliography. Concentration on expository writing style and format.
Grade Mode: Normal Grading Mode

MUS 622 Styles and Analysis **3 Credit hours**
Identification of structural principles and compositional idioms characteristic of historical eras and representative composers from the Ars Antiqua to the present day.
Grade Mode: Normal Grading Mode

MUS 629 Choral Conduct and Interp **3 Credit hours**
Advanced study in literature, conducting techniques, score preparation and analysis, interpretation, rehearsal planning and execution for the choral ensemble. May be repeated for credit three times.
Grade Mode: Normal Grading Mode

MUS 630 Instru Conduct & Interp **3 Credit hours**
Advanced study in literature, conducting techniques, score preparation and analysis, interpretation, rehearsal planning and execution for the instrumental ensemble. May be repeated for credit three times.
Grade Mode: Normal Grading Mode

MUS 631 Adv Jazz Improv **2 Credit hours**
Advanced skills, techniques, and performance practices for jazz improvisation. Continued study of bebop, post-bebop, extended forms, contemporary, and non-Western styles and improvisation techniques. Transcription and performance of representative literature.
Grade Mode: Normal Grading Mode

MUS 640A Music Theory **3 Credit hours**
Analytical and writing techniques of 19th and 20th music.
Grade Mode: Normal Grading Mode

MUS 641 Advanced Counterpoint **3 Credit hours**
An intensive study of contrapuntal techniques, styles, and forms through composition and analysis.
Grade Mode: Normal Grading Mode

MUS 646 Advanced Choral Arranging **3 Credit hours**
Techniques of choral composition and arranging with emphasis on the mixed choir. Arrangements and original works sung by choral groups and conducted by students.
Grade Mode: Normal Grading Mode

MUS 647 Advanced Band Arranging **3 Credit hours**
A study of the scoring for modern concert and marching bands , the transcription of works for other media as well as original works; analysis of band literature, harmonic and formal.
Grade Mode: Normal Grading Mode

MUS 648 Advanced Orchestration **3 Credit hours**
Scoring compositions from other media for modern orchestras of various sizes.
Grade Mode: Normal Grading Mode

MUS 649 Advanced Jazz Arranging & Comp **3 Credit hours**
Comprehensive techniques and analysis of jazz masterworks applied to composing and arranging in various instrumental and vocal jazz styles. Techniques of orchestration and composition for both large and small ensembles.
Grade Mode: Normal Grading Mode

MUS 650 Music of the Middle Ages **3 Credit hours**
Ancient Greek musical theory, Gregorian chant and its outgrowths, secular monophony, sacred and secular polyphony and its development through the fourteenth century.
Grade Mode: Normal Grading Mode

MUS 651 Music of the Renaissance **3 Credit hours**
The historical and sylistic study of music of the Renaissance, ca 1400 to ca 1600.
Grade Mode: Normal Grading Mode

MUS 652 Music of the Baroque Era **3 Credit hours**
The historical and stylistic study of music of the Baroque Era, ca 1600 to ca 1750.
Grade Mode: Normal Grading Mode

MUS 653 Music in Classical Era **3 Credit hours**
The historical and stylistic study of music of the Classical Era, ca 1720 to ca. 1820.
Grade Mode: Normal Grading Mode

MUS 654 Music in the Romantic Era **3 Credit hours**
The historical and stylistic study of music of the Classical Era, ca 1800 to ca. 1900
Grade Mode: Normal Grading Mode

MUS 655 Music ca 1900 to the Present **3 Credit hours**
Musical developments since Wagner: Debussy, Stravinsky, Mahler, Strauss, Schoenberg, Bartok and their contemporaries . Developments in electronic and aleotoric music, and new notations.
Grade Mode: Normal Grading Mode

MUS 656 Sem Performance Practice **2 Credit hours**
Students will prepare and perform music from a selected style period using editorial methods and research as appropriate to the chosen period. May be repeated for credit.
Grade Mode: Normal Grading Mode

MUS 657 Jazz History **3 Credit hours**
Comprehensive study of the development of jazz and related forms from its inception to recent trends. Relationships between aesthetic, technological, and social changes and their effects. Study of historic recordings.
Grade Mode: Normal Grading Mode

MUS 658 Technology in Music Edu **3 Credit hours**
An intensive exploration of technological resources specific to music education and instruction on effective strategies for implementation in a classroom setting.
Grade Mode: Normal Grading Mode

MUS 670 Cur Trends in Mus Ed PreK-5 **3 Credit hours**
A comprehensive survey of available materials in singing, reading, listening, rhythm, and creating program of school music for the elementary grades; use of such materials in the methodology of teaching.
Grade Mode: Normal Grading Mode

MUS 675 Music in Erly Child (Birth-5) **3 Credit hours**
Ways of using creative activity in the music program, methods of presenting creative song writing, rhythms, instrument construction, instrumental expressing, dramatization, program building.
Grade Mode: Normal Grading Mode

MUS 679 Critical Review in Music **1-3 Credit hours**
Exploration of problems and solutions related to various methodologies in music.
Grade Mode: Normal Grading Mode

MUS 681 Thesis **1-6 Credit hours**
Attributes: No Textbook Required, Thesis
Grade Mode: Normal Grading Mode

Music Ensembles

MUSE 501 Chamber Choir **1 Credit hour**
Advanced, auditioned choral ensemble open to all university students. Repertoire performed locally and on tour includes great chamber literature of the past five centuries. Three rehearsals per week. Course is repeatable for credit. (PR: Audition with Director)
Grade Mode: Normal Grading Mode

MUSE 502 University Chorus **1 Credit hour**
A mixed chorus of 60-90 singers open to all university students without audition. Public performances of a variety of music are given each semester. Three rehearsals per week.
Grade Mode: Normal Grading Mode

MUSE 503 Choral Union **1 Credit hour**
Large choral ensemble available to university and regional singers without audition. May be repeated for credit.
Grade Mode: Normal Grading Mode

MUSE 506 Opera Workshop **1 Credit hour**
Preparation and performance of opera scenes and full operas. Membership open to students as singers, pianists, and technical personnel. Roles assigned by audition. Two rehearsals per week plus private coaching. (PR: Audition with Director)
Grade Mode: Normal Grading Mode

MUSE 508 3rd Avenue **1 Credit hour**
A mixed a capella ensemble dedicated to the performance of a variety of popular, jazz, and contemporary styles. Open to all students regardless of major. PR: Permission.
Grade Mode: Normal Grading Mode

MUSE 511 Orchestra **1 Credit hour**
The Marshall Orchestra is open to all university students, faculty, and interested musicians in the community with permission of the instructor. Concerts are presented each semester. (PR: Audition with Director)
Grade Mode: Normal Grading Mode

MUSE 520 Wind Symphony **1 Credit hour**
A select, auditioned group of wind and percussion players who study and perform original and transcribed works for wind orchestra and works for small mixed chamber ensembles. (PR: Audition)
Grade Mode: Normal Grading Mode

MUSE 521 Symphonic Band **1 Credit hour**
The Marshall University Symphonic Band rehearses twice a week and presents two concerts each semester. Symphonic Band performs a varied repertoire of music from wind band staples to contemporary works.
Grade Mode: Normal Grading Mode

MUSE 530 Jazz Ensemble **1 Credit hour**
Study and performance of traditional and progressive jazz repertoire in a big band ensemble. Open to all university students by audition. May be repeated for credit.
Grade Mode: Normal Grading Mode

MUSE 533 Jazz Improv Ensemble **1 Credit hour**
Ensemble improvisation from duet to tentet. Emphasis on music sightreading, recognition and application of chord/scale relationships in a performance setting. Ensemble playing skills. May be repeated for credit.
Grade Mode: Normal Grading Mode

MUSE 540 Brass Band of the TriState **1 Credit hour**
A community/university ensemble modeled after the British-style brass band. May be repeated for credit.
Grade Mode: Normal Grading Mode

MUSE 543 Contemporary Music Ensemble **1 Credit hour**
Performance of contemporary music in various media.
Grade Mode: Normal Grading Mode

MUSE 544 Collegium Musicum **1 Credit hour**
An ensemble for the performance of Medieval, Renaissance, and Baroque music, with special attention to performance practices and instrumental and vocal techniques. May be repeated for credit.
Grade Mode: Normal Grading Mode

MUSE 546 African Drum & Dance Ensemble **1 Credit hour**
Ensemble devoted to the performance fo traditional African drumming and dance. May be repeated for credit.
Grade Mode: Normal Grading Mode

MUSE 552 Woodwind Ensemble **1 Credit hour**
Chamber ensemble experience for woodwind players. May be repeated for credit.
Grade Mode: Normal Grading Mode

MUSE 555 Brass Ensemble **1 Credit hour**
Chamber ensemble experience for brass players. May be repeated for credit.
Grade Mode: Normal Grading Mode

MUSE 558 Percussion Ensemble **1 Credit hour**
An ensemble dedicated to performing a wide variety of musical styles on instruments in the percussion family. May be repeated for credit.
Grade Mode: Normal Grading Mode

MUSE 561 String Ensemble **1 Credit hour**
Chamber ensemble experience for string players. May be repeated for credit.
Grade Mode: Normal Grading Mode

MUSE 564 Piano Ensemble **1 Credit hour**
Study and perform a wide variety of musical styles for multiple pianists on 1-5 pianos. Audition with instructor required. May be repeated for credit.
Grade Mode: Normal Grading Mode

MUSE 567 Guitar Ensemble **1 Credit hour**
An ensemble for guitar majors and qualified guitar elective students; focus on sight reading skills, ensemble accuracy and position playing. May be repeated for credit.
Grade Mode: Normal Grading Mode

Music Program Courses

MUSP 580 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

MUSP 581 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

MUSP 582 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

MUSP 583 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

MUSP 584 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

MUSP 585 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

MUSP 586 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

MUSP 587 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

MUSP 588 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

MUSP 591 Workshop **1-4 Credit hours**
Grade Mode: Normal Grading Mode

MUSP 592 Workshop **1-4 Credit hours**
Grade Mode: Normal Grading Mode

MUSP 593 Workshop **1-4 Credit hours**
Grade Mode: Normal Grading Mode

MUSP 594 Workshop **1-4 Credit hours**
Grade Mode: Normal Grading Mode

Music, M.A.

Program Description

The mission of the Marshall University School of Music is to cultivate excellence in musical artistry, elevate cultural experiences on campus and in the community, and advance development and growth.
We value academic & musical excellence, richness of perspective, international collaboration, research, education, performance, and industry, regional musical ambassadorship, and innovation and integration. In pursuit of our mission and values, we are committed to the following goals:

- To offer comprehensive music programs that provide for varied musical interests and aspirations and prepare students for an evolving and diverse future as music professionals
- To empower and sustain faculty and staff in their continued development and scholarly/creative endeavors
- To function as a vital and visible contributor to the cultural life of the community through performances, festivals, and other presentations, as well as engaging in collaborative partnerships
- To foster a vibrant, student-centered community that inspires music and academic excellence, personal growth, and entrepreneurship.

The School of Music is a fully accredited institutional member of the National Association of Schools of Music. The music program offers the following areas of emphasis within the Master of Arts degree which require 32 to 36 hours:

- Applied Music Performance
- Jazz Studies
- Music Composition
- Music Education
- Music History and Literature

An Emphasis is required to complete the Degree.

Admission Requirements

Applicants should follow the admissions process described in this catalog or at the Graduate Admissions website at www.marshall.edu/graduate/admissions/how-to-apply-for-admission (https://www.marshall.edu/graduate/admissions/how-to-apply-for-admission/).

To be admitted to the School of Music, you must:

- Have a bachelor's degree from an accepted, accredited institution with a major in music or the equivalent.
- Have an undergraduate cumulative grade point average of at least 2.75 on a 4.0 scale, with no grade lower than a C in any music course.

- Perform an audition or submit a video audition (Jazz Studies, Applied Music Performance) or submit additional application materials (Music Composition, Music Education, Music History).
- Entering vocal performance majors with fewer than two (2) semesters of study of French, German, or Italian must complete two (2) semesters of undergraduate study in one of those languages.
- Submit an application to the School of Music, available at https://www.marshall.edu/music/school-of-music-graduate-application/.

Potential graduate students should contact the School of Music Graduate Coordinator for more specific information. Requirements for performance levels in applied music can be found in the School of Music Graduate Handbook.

Video Audition

In lieu of a live audition, prospective students may submit an unedited video, including unedited videos of a live performance. Any performance included on the video must have taken place no earlier three (3) months prior to submission. Please upload your video to an unlisted YouTube channel and provide a link on your application form

Provisional Admittance

Applicants not meeting one or more these requirements may be admitted provisionally but will not be considered degree-seeking students until all requirements are satisfied. In certain instances, after an evaluation of the undergraduate transcript, incoming graduate students will need to take remedial courses to meet academic requirements for specific emphases. These classes will be documented to the student at the time of acceptance into the graduate program in music.

Placement Examinations

All entering graduate music students must take diagnostic exams in music theory and music history prior to the start of their first semester of enrollment. Entering vocal performance majors must take a diagnostic exam in diction, covering Italian, English, French, and German languages.

Graduation Requirements

Credit Hours and Minimum GPA

Students must meet the minimum number of credit hours for their emphasis area and have a minimum grade point average (GPA) of 3.0. No more than six (6) hours in which a grade of *C* is earned and no grades below *C* may be applied toward the degree.

Plan of Study

Students must have an approved Plan of Study on file in the College of Arts & Media office.

Comprehensive Exams

The graduate comprehensive examinations in music (written and oral) are required of all candidates for the Master of Arts in Music degrees. These examinations provide an opportunity for the student to demonstrate a thorough knowledge of the student's subject area, music history and literature, music theory, and/or area pedagogy and literature.

Graduate Recital (Applied Music Performance, Jazz Studies, Music Composition)

Candidates for the Master of Arts in Music with an Emphasis in Applied Music Performance and Jazz Studies are required to present a recital of a minimum of 60 minutes duration for which one (1) semester credit hour MUSA 676 Graduate Recital is earned. Candidates for the Master of Arts in Music with an Emphasis in Music Composition are required to present a recital of original music (or an approved equivalent) of a minimum of 60 minutes duration for which one (1) semester credit hour in MUSA 676 Graduate Recital is earned. Students must successfully pass a Recital Hearing as detailed below. Graduate recitals may be scheduled at any time, but usually occur in the final semester of the student's applied study program. An archival recording will be made of the recital.

MUSIC COMPOSITION DIGITAL AND/OR AUDIO PORTFOLIOS

Music Composition students will submit their approved digital and/or audio portfolios of the works performed on their degree recital to their committee chair. The committee chair will ensure that the School of Music office receives the portfolio(s).

Thesis Option (Music History and Literature, and Music Education)

Students electing to write a thesis will enroll in MUSP 681 Thesis. In the semester prior to enrollment in MUSP 681, the student must submit a research proposal to their thesis committee and to the Institutional Review Board (IRB) for approval of their topic. Students will:

- Research and write a 60–80-page, documented thesis on an approved topic with comprehensive bibliography and abstract supporting a subject in music history using appropriate sources and voice, relevant evidence, and correct report format, including relevant permissions for copyrighted materials.
- Justify thesis research in an oral defense by citing methodology and evidence in support.
- Present the findings of the research paper in a formal, public setting (30-minute presentation).
- Submit their approved thesis according to MU Graduate Studies Electronic Thesis & Dissertation Guidelines, https://libguides.marshall.edu/etd/guidelinesandtemplates (https://libguides.marshall.edu/etd/guidelinesandtemplates/).

Non-Thesis Option (Music History and Literature, and Music Education)

Students electing the non-thesis option track in the Music History and Literature or Music Education program will prepare a portfolio of their semester research projects to submit to their portfolio committee. During the preparation of their portfolios, students will consult with the faculty member who oversaw the original research project(s) for the purposes of feedback, revision, and editing. The student will be asked to justify aspects of their research in an oral defense by citing methodology and evidence in support. Following their oral exam, the student will submit and electronic copy of their portfolio, including any necessary revisions, to their committee chair, who will ensure that the School of Music office receives the portfolio.

Additional Music History and Literature Emphasis Requirements

Students enrolled in the M.A. program in Music History and Literature (Thesis or Non-Thesis Option) must demonstrate reading knowledge of a foreign language (German preferred). This requirement can be satisfied by one of the following actions:

1. Pass the music history area foreign language translation exam (administered as needed) with a score of 75% or higher
2. Successfully complete four (4) semesters of a foreign language offered by the Marshall University Department of Modern Languages.
3. Successfully complete a University of Wisconsin Independent Learning course in Reading and Translation. For more information, see their website: https://continuingstudies.wisc.edu/classes/?topics=Exams.

Course Requirements

Code	Title	Credit Hours
Music Major		
MUS 621	Music Research Methods	3
MUS 622	Styles and Analysis	3
Emphasis Area Requirements		**26-30**
Total Credit Hours		**32-36**

- Applied Music Performance (p. 77)
- Jazz Studies (p. 77)
- Music Composition, Emphasis (p. 77)
- Music Education (p. 78)
- Music History and Literature (p. 78)

Applied Music Performance

M.A. in Music with an emphasis in Applied Music Performance

The Master's program in Applied Music Performance at Marshall University offers advanced training on your instrument for honing your technical and artistic skills. Graduates of the program are prepared to enter the profession as performers and educators, to teach at the collegiate level, or to enter a doctoral-level performance program.

Course Requirements

Applied Music Performance

Area of Emphasis for the Master of Arts in Music

(32 credits)

Code	Title	Credit Hours
Required Courses		
MUS 622	Styles and Analysis	3
MUS 621	Music Research Methods	3
MUS 640A	Music Theory	3
Applied Music		8
Literature course in Principal Applied Area		2
Graduate History Course		3
MUSA 676	Graduate Recital	1
Instrumental Track Electives		
Select 9 credits from any MUSA, MUSE, or MUS courses.		9
Vocal Track Electives [2]		
MUS 619A	Seminar in Vocal Pedagogy	2
Select 7 credits from any MUSA, MUSE, or MUS courses.		7

[1] Students must follow departmental policies in preparing and presenting the graduate performance recital.

[2] Voice performance majors with fewer than 2 semesters study of French, German, or Italian must complete 2 semesters of undergraduate study in one of those languages.

Jazz Studies

M.A. in Music with an Emphasis in Jazz Studies

The Master's program in Jazz Studies at Marshall University offers advanced training in jazz improvisation, composition and arranging, conducting, history, and jazz performance. Graduates of the program are prepared to join the profession as jazz performers, composers, arrangers, and educators, to teach at the collegiate level, or to enter a doctoral-level jazz program.

Course Requirements

Code	Title	Credit Hours
Required Courses		
MUS 621	Music Research Methods	3
MUS 512	Adv Jazz Ped & Cond	3
MUS 513	Adv Jazz Styles / Analysis	2
MUSE 530	Jazz Ensemble	4
MUSE 533	Jazz Improv Ensemble	4
Applied Music		8
MUSA 676	Graduate Recital	1
Electives		
Select five (5) credits from the following:		5
MUS 649	Advanced Jazz Arranging & Comp	
MUS 631	Adv Jazz Improv	
MUS 657	Jazz History	
Select 2 credits from any MUSA, MUSE, or MUS courses.		2
Total Credit Hours		**32**

Students must follow departmental policies in preparing and presenting the graduate performance recital.

Music Composition, Emphasis

M.A. in Music with an emphasis in Music composition

The Master's program in Music Composition at Marshall University offers advanced training on in composition and music production. Graduates of the program are prepared to enter the profession as

performers and educators, to teach at the collegiate level, or to enter a doctoral-level composition program.

Course Requirements

Code	Title	Credit Hours
Required Courses		
MUS 532	Electronic Music Composition	2
MUS 622	Styles and Analysis	3
MUS 621	Music Research Methods	3
MUS 640A	Music Theory	3
MUS 641	Advanced Counterpoint	3
MUS 655	Music ca 1900 to the Present	3
MUSA 680	Original Composition	2
MUSA 680	Original Composition	2
MUSA 680	Original Composition	2
MUSA 680	Original Composition	2
MUSA 676	Graduate Recital	1
Electives		
Select 4 credits from the following:		4
MUS 646	Advanced Choral Arranging	
MUS 647	Advanced Band Arranging	
MUS 648	Advanced Orchestration	
MUS 649	Advanced Jazz Arranging & Comp	
Select 2 credits from any MUSA, MUSE, or MUS courses.		2
Total Credit Hours		**32**

[1] Students must follow departmental policies in preparing and presenting the graduate performance recital.

Music Education

M.A. In Music With An Emphasis in Music Education

The Master's program in Music Education (Online) at Marshall University offers you a chance to transform your teaching practice with the latest advanced methods and research in music while in the comfort of your own home. Graduates of the program earn a higher pay scale and are prepared to teach at the collegiate level or to enter a doctoral level music education program.

Course Requirements

Music Education – Thesis Option

Area of Emphasis in Master of Arts in Music

(32 credits)

Code	Title	Credit Hours
Required Courses		
MUS 610	Hist and Phil of Music Ed	3
MUS 611	Music Psy and Lrng Theory	3
MUS 616	Mus Curr and Admin	3
MUS 617	Seminar Music Education	3
MUS 621	Music Research Methods	3
MUS 622	Styles and Analysis	3
MUS 658	Technology in Music Edu	3
MUS 679	Problem Report	3
MUS 681	Thesis	3
Specialization		
Select 6-12 credits from the following:		6-12
MUS 512	Adv Jazz Ped & Cond	
MUS 612	Projects & Problems Music	
MUS 620A	Instrumental Tech and Material	
MUS 620B	Choral Tech and Materials	
MUS 620C	Elem Tech and Materials	
MUS 629	Choral Conduct and Interp	
or MUS 630	Instru Conduct & Interp	
MUS 670	Cur Trends in Mus Ed PreK-5	
Total Credit Hours		**33-39**

Music Education – Non-Thesis Option

Area of Emphasis in Master of Arts in Music

(36 credits)

Code	Title	Credit Hours
Required Courses		
MUS 610	Hist and Phil of Music Ed	3
MUS 611	Music Psy and Lrng Theory	3
MUS 616	Mus Curr and Admin	3
MUS 617	Seminar Music Education	3
MUS 621	Music Research Methods	3
MUS 622	Styles and Analysis	3
MUS 658	Technology in Music Edu	3
MUS 679	Problem Report	3
Specialization		
Select 12 credits from the following:		12
MUS 512	Adv Jazz Ped & Cond	
MUS 612	Projects & Problems Music	
MUS 620A	Instrumental Tech and Material	
MUS 620B	Choral Tech and Materials	
MUS 620C	Elem Tech and Materials	
MUS 629	Choral Conduct and Interp	
or MUS 630	Instru Conduct & Interp	
MUS 670	Cur Trends in Mus Ed PreK-5	
Total Credit Hours		**36**

Music History and Literature

M.A. In Music With An Emphasis in Music History and Literature

The Master's program in Music History & Literature offers advanced study in the history & literature of music, music research, and musicological and ethnomusicological methods. Graduates of the program are prepared to teach at the collegiate level or enter a doctoral-level program in musicology and related fields.

Course Requirements

Music History/Literature – Thesis Option

Area of Emphasis in Master of Arts in Music

(32 credits)

Code	Title	Credit Hours
Required Courses		
MUS 622	Styles and Analysis	3
MUS 612	Projects & Problems Music	2
MUS 621	Music Research Methods	3
MUS 640A	Music Theory	3
Music History Period Courses		
Select 12 credits from the following:		12
MUS 510	Intro to World Music	
MUS 650	Music of the Middle Ages	
MUS 651	Music of the Renaissance	
MUS 652	Music of the Baroque Era	
MUS 653	Music in Classical Era	
MUS 654	Music in the Romantic Era	
MUS 655	Music ca 1900 to the Present	
MUS 681	Thesis	3
Electives		
Select 6 credits from the following:		6
Graduate Music Course		
1-4 credits in Applied Music		
1-2 credits in Ensembles		
Total Credit Hours		**32**

Music History/Literature – Non-Thesis Option

Area of Emphasis in Master of Arts in Music

(36 credits)

Code	Title	Credit Hours
Required Courses		
MUS 622	Styles and Analysis	3
MUS 612	Projects & Problems Music	2
MUS 621	Music Research Methods	3
MUS 640A	Music Theory	3
Music History Period Courses		
Select 12 credits from the following:		12
MUS 510	Intro to World Music	
MUS 650	Music of the Middle Ages	
MUS 651	Music of the Renaissance	
MUS 652	Music of the Baroque Era	
MUS 653	Music in Classical Era	
MUS 654	Music in the Romantic Era	
MUS 655	Music ca 1900 to the Present	
Music Electives		
Select 7 credits from the following:		7
Graduate Music Courses		
1-4 credits in Applied Music		
1-2 credits in Ensembles		
Non-Music Electives		
Select 6 credits in consultation with advisor from the following areas: Art, Classics, English, Humanities, Languages, Philosophy, Religious Studies, Sociology, Theatre		6
Total Credit Hours		**36**

Lewis College of Business

Contacts: Dr. Rohan Christie-David, Dean; Dr. Doohee Lee, Associate Dean
Website: https://www.marshall.edu/cob (https://www.marshall.edu/cob/)

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Brad D. Smith Schools of Business

Programs

Brad D. Smith School of Business

- Accountancy, M.S. (p. 91)
- Business Administration, D.B.A. (p. 92)
- Business Administration, M.B.A. (p. 94)
- Business Analysis and Reporting, Emphasis (p. 92)
- Data Analytics in Health Care, Graduate Certificate (p. 96)
- Health Care Administration, M.S. (p. 96)
- Health Informatics, M.S. (p. 98)
- Human Resource Management, M.S. (p. 99)
- Information Systems and Controls, Emphasis (p. 92)
- Information Systems, Accelerated Graduate Degree (p. 100)
- Information Systems, M.S. (p. 100)
- Lab Management, Graduate Certificate (p. 101)
- Nurse Anesthesia Practice, D.N.A.P. (p. 101)
- Sport Administration, Accelerated Graduate Degree (p. 101)
- Sport Administration, M.S. (p. 102)
- Tax Compliance and Planning, Emphasis (p. 92)
- Technology Management, Graduate Certificate (p. 103)

Courses

Accounting

ACC 510 Survey of Accounting **3 Credit hours**
A survey of financial and managerial accounting principles and procedures that supports external financial reporting and management decision making for business entities.
Grade Mode: Normal Grading Mode

ACC 512 Govt NFP Accounting **3 Credit hours**
Accounting, reporting, and analysis of both governmental entities and not-for-profit entities will be examined with the focus on the preparation and use of the information for decision makers.
Grade Mode: Normal Grading Mode

ACC 514 Corp and Partner Accounting **3 Credit hours**
Accounting, reporting, and analysis of complex corporate transactions, with an emphasis on business combinations and international transactions. Accounting for and understanding issues related to partnerships is also covered.
Grade Mode: Normal Grading Mode

ACC 544 Consulting for CPAs **3 Credit hours**
To acclimate students to the consulting work environment; emphasis on collecting relevant information to provide comprehensive solutions. To provide concrete examples of this process. The course will focus on estate tax calculations and planning; retirement and investment planning.
Grade Mode: Normal Grading Mode

ACC 548 Taxation of Entities **3 Credit hours**
Advanced course that emphasizes the taxation of entities such as corporations, partnerships, estates, trusts, and not-for-profits. Includes state and local taxation and multinational taxation.
Grade Mode: Normal Grading Mode

ACC 580 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ACC 581 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ACC 582 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ACC 612 Account Function Business **3 Credit hours**
The meaning, uses, and limitations of the historical and projected quantitative data produced by the accounting process. Emphasis is given to the utilization of accounting information: (1) by marketing, production, and financial executives in planning and controlling business operations and (2) by investors, creditors, governmental agencies, and other external groups having an interest in the operating results and financial position of business firms.
Grade Mode: Normal Grading Mode

ACC 613 Profit Planning & Control **3 Credit hours**
Determination, analysis, and reporting of data for planning and controlling operations. Includes flexible budgets, standard costs, and systems of determining historical costs.
Grade Mode: Normal Grading Mode

ACC 614 Theory of Accounting **3 Credit hours**
History and development of accounting principles; intensive study of theoretical problems related to determination of income and presentation of financial conditions.
Grade Mode: Normal Grading Mode

ACC 615 Audit Practice & Analytics **3 Credit hours**
Legal and social responsibilities of the auditor. Verification of financial statements by independent public accountants and internal auditors including analytics, sampling, and substantive testing.
Grade Mode: Normal Grading Mode

ACC 616 Adv Income Tax Procedure **3 Credit hours**
A study of selected topics in the Internal Revenue code and Regulations with emphasis on tax accounting and research.
Grade Mode: Normal Grading Mode

ACC 617 Advanced Controllership **3 Credit hours**
Functions of the modern corporate controller. Topics and problems demonstrating the integrative nature of the controller's role are investigative. The use of the computer is integrated into the course.
Grade Mode: Normal Grading Mode

ACC 618 Accounting Research **3 Credit hours**
Examination and evaluation of current theories, issues, and problems relating to accounting. Primary emphasis on accounting theory and research.
Grade Mode: Normal Grading Mode

ACC 620 Analytic Modeling Acct **3 Credit hours**
Students will learn how to build accounting analytic models and analyze accounting data to increase profitability, reduce costs, and improve operational costs.
Grade Mode: Normal Grading Mode

ACC 632 AIS Controls **3 Credit hours**
An overview of accounting information systems auditing, controls, and governance. Uses both lecture and case analyses to learn about controls and identify their strengths and weaknesses.
Grade Mode: Normal Grading Mode

ACC 640 Forensic ACC Civil Litigation **3 Credit hours**
This course involves the examination of various services provided by financial experts during the litigation process and the financial theory and methodology behind analytic and damage issues in civil litigation.
Grade Mode: Normal Grading Mode

ACC 648 Tax Research **3 Credit hours**
Examines the primary and secondary sources of income tax law. Assignments will address using paper and electronic research tools to locate, understand and interpret primary and secondary source materials.
Grade Mode: Normal Grading Mode

ACC 650 Special Topics **1-3 Credit hours**
Grade Mode: Normal Grading Mode

ACC 651 Special Topics **1-3 Credit hours**
Grade Mode: Normal Grading Mode

ACC 660 Independent Study **1-4 Credit hours**
Independent study of a specific nature under the supervision of a faculty member with graduate status. Hours determined by the magnitude of the project. (PR: Permission of the division head and full M.B.A. admissions or permission of GSM academic advisor)
Grade Mode: Normal Grading Mode

ACC 681 Thesis **1-6 Credit hours**
Permission of the department head and full M.B.A. admission.
Attributes: Thesis
Grade Mode: Normal Grading Mode

ACC 698 Ethics in Accounting **3 Credit hours**
This course examines ethical issues facing professional accountants. Professional coles of conduct and corporate governance mechanisms will be applied to manage ethical situations.
Grade Mode: Normal Grading Mode

ACC 699 Bus Policy & Strategy **3 Credit hours**
Study of administrative decision making under conditions of uncertainity. Policy construction are top administrative level with emphasis on strategy with consideration of major functions of the business organization.
Grade Mode: Normal Grading Mode

Economics

ECN 501 Economic Analysis **3 Credit hours**
A survey of essential economics principles and techniques, including both microeconomic and macroeconomics topics. For students who have not had a two semester principles of economics sequence as undergraduates.
Grade Mode: Normal Grading Mode

ECN 515 Regional Economics **3 Credit hours**
A study of location theory and regional development within a framework of economic theory.
Grade Mode: Normal Grading Mode

ECN 561 Economic Educ Workshop **3 Credit hours**
Intensive review of subject matter and teaching methods in economics for elementary and high school teachers.
Grade Mode: Normal Grading Mode

ECN 580 Special Topics **1-4 Credit hours**
Members of the department may teach, when necessary, any economics subject not listed amoung the current course offerings.
Grade Mode: Normal Grading Mode

ECN 630 Managerial Economics **3 Credit hours**
Utilization of microeconomic theory and optimization techniques for management decision making.
Pre-req: (MGT 601 with a minimum grade of C or MGT 500 with a minimum grade of C) and ECN 501 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ECN 650 Special Topics **1-3 Credit hours**
Members of the department may teach, when necessary, any economics subject not listed among current course offerings.
Grade Mode: Normal Grading Mode

ECN 651 Special Topics **1-3 Credit hours**
Members of the department may teach, when necessary, any economics subject not listed among current course offerings.
Grade Mode: Normal Grading Mode

ECN 660 Independent Study **1-4 Credit hours**
Independent study of a specific nature under the supervision of a qualified faculty member. Hours of credit are determined by the magnitude of the project. (PR: Permission of division head and of GSM academic advisor)
Grade Mode: Normal Grading Mode

ECN 681 Thesis **3-6 Credit hours**
(PR: Permission of division head and full M.B.A. admissions)
Attributes: Thesis
Grade Mode: Normal Grading Mode

ECN 699 Bus Policy & Strategy **3 Credit hours**
Study of administrative decisions making under conditions of uncertainty. Policy constuction at top administrative level with emphasis on strategy with consideration of major functions of the business organization.
Grade Mode: Normal Grading Mode

Entrepreneurship

ENT 680 Entrepreneurship **3 Credit hours**
The management of small business emphasizes how they are started and financed, how they produce and market their products and services and how they manage their human resources.
Grade Mode: Normal Grading Mode

Finance

FIN 510 Prin Business Finance **3 Credit hours**
Business finance from the viewpoint of the financial manager. Use of financial statements, tools, and concepts for measuring and planning for profitability and liquidity. (PR: Permission of MBA director).
Pre-req: ACC 510 with a minimum grade of C and ECN 501 with a minimum grade of C and MGT 500 with a minimum grade of C.
Grade Mode: Normal Grading Mode

FIN 532 Fin Advising FINRA S-7 **3 Credit hours**
This course prepares students for the Series 7 exam that entitles the holder to sell all types of securities products with the exception of commodities and futures.
Grade Mode: Normal Grading Mode

FIN 556 Income Tax Planning **3 Credit hours**
This course focuses on principles and current law of income taxation and its impact on financial planning for individuals, couples and families as investors, employees and business owners.
Pre-req: FIN 551 with a minimum grade of C.
Grade Mode: Normal Grading Mode

FIN 558 Estate Planning **3 Credit hours**
Estate Planning focuses on the efficient conservation and transfer of wealth, consistent with the client's goals such as trusts, wills, probate, advanced directives, charitable giving, wealth transfers and related taxes.
Pre-req: FIN 551 with a minimum grade of C.
Grade Mode: Normal Grading Mode

FIN 580 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

FIN 581 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

FIN 620 Financial Management **3 Credit hours**
An examination of business corporations practicing at the level of the individual firm with emphasis on quantitative analysis of the variables which affect liquidity and profitability.
Pre-req: MGT 601 with a minimum grade of C.
Grade Mode: Normal Grading Mode

FIN 623 Investments **3 Credit hours**
A study of fundamental investment principles, modern portfolio theory, and portfolio formation process and the evaluation of portfolio performance.
Pre-req: FIN 501G with a minimum grade of C or FIN 501 with a minimum grade of C.
Grade Mode: Normal Grading Mode

FIN 625 Financial Prob Business **3 Credit hours**
Recognizing and solving financial problems through the use of case presentations and/or corporate annual and interim reports.
Pre-req: FIN 620 with a minimum grade of C.
Grade Mode: Normal Grading Mode

FIN 626 Sec Anlysis-Portfolio Mgt **3 Credit hours**
Analytical procedures used by institutional portfolio managers to measure both past performance of holdings and anticipated market performance of current offerings. Emphasis in this course may be expected to be more centralized in the area of fundamental analysis.
Pre-req: FIN 620 with a minimum grade of C.
Grade Mode: Normal Grading Mode

FIN 627 Fin Institution & Markets **3 Credit hours**
An in-depth study of the flow of funds in the aggregate financial systems, with emphasis on those in the United States. Because interest rates, and bank reserve requirements of Federal Reserve System are all dynamic in character, the content of this course may be expected to vary as financial events of the future dictate.
Pre-req: FIN 620 with a minimum grade of C.
Grade Mode: Normal Grading Mode

FIN 630 Multinational FIN MGT **3 Credit hours**
This course analyzes the challenges of multinational corporations' financial management. It covers three areas: foreign exchange market transactions, exchange rate risk and hedging, and corporate financial decisions of an MNC.
Grade Mode: Normal Grading Mode

FIN 650 Special Topics **1-3 Credit hours**
(Permission of the division head, full M.B.A. admission, and permission of GSM academic advisor)
Pre-req: FIN 501G with a minimum grade of C or FIN 510 with a minimum grade of C.
Grade Mode: Normal Grading Mode

FIN 651 Special Topics **1-3 Credit hours**
Pre-req: FIN 620 with a minimum grade of C.
Grade Mode: Normal Grading Mode

FIN 660 Independent Study **1-4 Credit hours**
Independent study of a specific nature under the supervision of a qualified faculty member. Hours of credit are determined by the magnitude of the project. (PR: FIN 620 and permission of division head or permission of GSM academic advisor)
Pre-req: FIN 620 with a minimum grade of C.
Grade Mode: Normal Grading Mode

FIN 681 Thesis **1-6 Credit hours**
(PR: Permission of the division head and full M.B.A. admission)
Attributes: Thesis
Grade Mode: Normal Grading Mode

FIN 699 Business Policy & Strategy **3 Credit hours**
Study of administrative decisions making under conditions of uncertainty. Policy construction at top administrative level with emphasis on strategy with consideration of major functions of the business organization.
Grade Mode: Normal Grading Mode

Health Care Administration

HCA 600 The Health Care System **3 Credit hours**
This course is designed to provide managers with in-depth knowledge of the current health care system, covering the structure and delivery of care, the providers and payers, and the various players in the system. The internal and external forces impacting the system are discussed. Problems in the health care system are explored and evaluated with respect to the issues of access, cost, and effectiveness.
Grade Mode: Normal Grading Mode

HCA 610 Health Care Financial Mgt **3 Credit hours**
Course provides an overview of health care financial management, with special emphasis upon the aspects of financial systems in hospitals that differ from typical financial systems. It includes analysis of capital formation cash flow management and determination of working capital requirements. (PR: HCA 600)
Pre-req: HCA 600 with a minimum grade of C.
Grade Mode: Normal Grading Mode

HCA 611 QUANT METHODS IN HEALTH CARE M **1 Credit hour**

HCA 615 Health Care Econ **3 Credit hours**
The health care industry is unique. Unlike in other markets, the consumer finds it difficult to evaluate quantity, quality, and pricing. Traditional market forces are modified by government, third-party payers, and professional interests. This course applies economic principles to this unique environment.
Pre-req: HCA 600 with a minimum grade of C.
Grade Mode: Normal Grading Mode

HCA 620 Ethical Dimensions/Hlth Care **3 Credit hours**
Emphasis in this course is on the way managers in health care settings incorporate ethical dimensions into their decision-making. It looks at the wide variety of ethical issues faced by these managers, focusing on those related specifically in the decisions they make about their organization, personnel, and services. Specifically covered are issues regarding all allocation of scarce resources, the type and availability of care for special populations, and conflicts of interest. (PR: HCA 600)
Pre-req: HCA 600 with a minimum grade of C or HCA 600G with a minimum grade of C.
Grade Mode: Normal Grading Mode

HCA 622 Utilization of HSR **3 Credit hours**
Provides an introduction to methods of undertaking research and program evaluation within health services organizations and delivery systems.
Pre-req: HCA 600 with a minimum grade of C and MKT 511 with a minimum grade of C.
Grade Mode: Normal Grading Mode

HCA 630 Legal Issues/Health Care Mgt **3 Credit hours**
This course provides students with a legal framework to analyze health care organizations and their operations. The federal and state legal systems are reviewed and regulatory programs and their requirements discussed. Topics include: tax exemptions, antitrust laws, corporate liability, provider-patient legal issues (contracts and negligence), patient rights, facilities licensure and accreditation, and reimbursement issues. Court cases, as well as governmental agency rulings and findings, are analyzed for their applications to health care management.
Grade Mode: Normal Grading Mode

HCA 640 The Health Care Professional **3 Credit hours**
This course presents an overview of various professional and managerial topics relevant to the health care professional. Each offering of the course focuses on a particular health profession. Emphasis is on defining the profession, understanding its historical development and evolution, examining professional roles, tasks, responsibilities, and accountabilities in current practice, studying the interaction with other professionals, delineating the parameters of the professional in ethical decision-making, and recognizing and responding to challenges faced in contemporary practice and in planning for the future.
Grade Mode: Normal Grading Mode

HCA 641 Clinical Experiences at CAMC **3-9 Credit hours**
Grade Mode: Credit/No Credit Grade Only

HCA 650 Comparative Health Systems **3 Credit hours**
A survey of health care provision systems throughout the world.
Pre-req: HCA 600 with a minimum grade of C.
Grade Mode: Normal Grading Mode

HCA 651 Health Care Operations **3 Credit hours**
Investigation of the use of operations managment techniques and methodologies that are useful in the health care industry.
Pre-req: HCA 600 with a minimum grade of C.
Grade Mode: Normal Grading Mode

HCA 652 Health Care Finance **3 Credit hours**
Examination of the various financial systems present within the American health care systems. Special emphasis placed upon the management of assets, cost control, and budgeting.
Pre-req: HCA 600 with a minimum grade of C.
Grade Mode: Normal Grading Mode

HCA 653 Integrated Health Care Del Sys **3 Credit hours**
Provides an in-depth knowledge of health care delivery systems with emphasis on the major managerial issues faced by integrated delivery systems.
Pre-req: HCA 600 with a minimum grade of C.
Grade Mode: Normal Grading Mode

HCA 654 Human Res Manage in Hlth Care **3 Credit hours**
Investigation of the human resource function found withiin contemporary health care provision systems. Discussion of future challenges facing the function in this turbulent environment.
Pre-req: HCA 600 with a minimum grade of C.
Grade Mode: Normal Grading Mode

HCA 655 Health Care Marketing **3 Credit hours**
An investigation of the role of marketing in today's health care organizations. Specific topics include market segmentation, consumer behavior, promotion, and environmental analysis.
Pre-req: HCA 600 with a minimum grade of C.
Grade Mode: Normal Grading Mode

HCA 656 Mgt of Medical Technology **3 Credit hours**
An investigation of the place technology, primarialy hard technology plays in the formulation of health care policy and strategies. Special emphais placed on the management of medical information systems.
Pre-req: HCA 600 with a minimum grade of C.
Grade Mode: Normal Grading Mode

HCA 657 Health Care Law and Policy **3 Credit hours**
An examination of the legal, regulatory, and policy-making interactions between government, society, and health care organizations and providers.
Pre-req: HCA 600 with a minimum grade of C.
Grade Mode: Normal Grading Mode

HCA 658 Long Term Care **3 Credit hours**
Examination of the range of health and social services that are needed to compensate for the functional disabilities of people. Review of available services and governmental policies and regulations.
Pre-req: HCA 600 with a minimum grade of C.
Grade Mode: Normal Grading Mode

HCA 659 Rural Health Care **3 Credit hours**
An investigation of how health care is provided to rural Americans. Special attention given to the health care systems that provide medical care to the peoples of Appalachia.
Pre-req: HCA 600 with a minimum grade of C.
Grade Mode: Normal Grading Mode

HCA 671 Health Care Practicum **1-6 Credit hours**
Project-oriented experience in health care operations and organizations. Intended for those students with insufficient experience in the field.
Pre-req: HCA 600 with a minimum grade of C.
Attributes: Onsite Learning Experience
Grade Mode: Normal Grading Mode

HCA 695 Fld Res/Health Care Mgt **3 Credit hours**
In this course, each student selects an in-depth organizational research project on a particular management problem in a health care organization. In this "hands-on" project, the student services as a consultant to the health care organization, conducting research, analyzing data, and making recommendations for the solution(s) to the management problem. Projects focus on such topics as strategic planning, productivity, quality assurance, risk management, and joint ventures. Field research projects are selected in conjunction with the program coordinator during the semester prior to course enrollment. (PR: Completion of all 600-level required HCA courses, plus permission of program director)
Pre-req: HCA 600 with a minimum grade of C.
Grade Mode: Normal Grading Mode

HCA 697 Topics Health Care Admin **3 Credit hours**
The course is designed to allow group study of selected topics of current interest in health care management. (PR: Consent of instructor)
Pre-req: HCA 600 with a minimum grade of C.
Grade Mode: Normal Grading Mode

HCA 698 Indpndnt Study-Hlth Care Admn **1-3 Credit hours**
Pre-req: HCA 600 with a minimum grade of C or HCA 600G with a minimum grade of C.
Grade Mode: Normal Grading Mode

HCA 699 Seminar in Health Care Admin **3 Credit hours**
Grade Mode: Normal Grading Mode

HCA 750 Field Research/Health Care Mgt **3 Credit hours**
Pre-req: (HCA 610 with a minimum grade of C or HCA 610G with a minimum grade of C) and (HCA 620 with a minimum grade of C or HCA 620G with a minimum grade of C) and (HCA 630 with a minimum grade of C or HCA 630G with a minimum grade of C).
Grade Mode: Normal Grading Mode

HCA 797 Thesis **6 Credit hours**
Attributes: Thesis
Grade Mode: Normal Grading Mode

Health Informatics

HIN 535 Applied Healthcare DB **3 Credit hours**
To understand the logical and physical design of data stored and retrieved from relational databases, how it applies to healthcare, and how HIM professionals can effectively communicate business requirements.
Grade Mode: Normal Grading Mode

HIN 545 Healthcare Data Analytics **3 Credit hours**
The course focuses on the systems, techniques, strategies and methods of big data analysis, data mining and machine learning algorithms and data visualization in healthcare settings.
Grade Mode: Normal Grading Mode

HIN 605 The Role of EHR and PHR **3 Credit hours**
Students will be introduced to the main concepts and software applications of Electronic Health Records and Personal Health Records.
Grade Mode: Normal Grading Mode

HIN 610 Intro to Health Informatics **3 Credit hours**
Introductory health informatic tools for data analysis and administrative decision-making including for example, Excel, Tableau, and machine learning.
Grade Mode: Normal Grading Mode

HIN 615 Health Quality and Safety **3 Credit hours**
Provide an experience that will prepare students to work effectively in professional positions, and to bridge the learning gained in course work with the world of practice.
Grade Mode: Normal Grading Mode

HIN 620 Legal Health & Informat **3 Credit hours**
The course will introduce students to IT governance, health information ethic and legal requirements to improve health care processes, customer response and business competitiveness.
Grade Mode: Normal Grading Mode

HIN 630 Research Methods and Data **3 Credit hours**
The course will introduce a compendium of methods for evaluation of IT-based systems and solutions within health care. Students will acquire knowledge in research process.
Grade Mode: Normal Grading Mode

HIN 650 Health Informatics Practicum **3 Credit hours**
Provide an experience to prepare students to work effectively in professional positions, and bridge the learning gained in course work with the world of practice.
Pre-req: HIN 605 with a minimum grade of C and HCA 656 with a minimum grade of C.
Attributes: Onsite Learning Experience
Grade Mode: Normal Grading Mode

HIN 664 Advanced Health Informatics **3 Credit hours**
Advanced aspects and use of health informatic tools, including management and analysis of data, modeling and simulation, data communications, on-line databases, clinical decision analysis, and enterprise systems.
Grade Mode: Normal Grading Mode

HIN 665 Health Care Enterpr Info Syste **3 Credit hours**
A hands-on introduction to using a health care enterprise information system providing students opportunity to work with elements of an EIS.
Grade Mode: Normal Grading Mode

HIN 685 Independent Study **1-4 Credit hours**
Independent Study relates to projects that do not fall specifically within an individual department's curriculum.
Grade Mode: Normal Grading Mode

HIN 686 Independent Study **1-4 Credit hours**
Independent Study relates to projects that do not fall specifically within an individual department's curriculum.
Grade Mode: Normal Grading Mode

HIN 687 Independent Study **1-4 Credit hours**
Independent Study relates to projects that do not fall specifically within an individual department's curriculum.
Grade Mode: Normal Grading Mode

HIN 688 Independent Study **1-4 Credit hours**
Independent Study relates to projects that do not fall specifically within an individual department's curriculum.
Grade Mode: Normal Grading Mode

Human Resources Management

HRM 600 Development of Labor Relations **3 Credit hours**
An historical survey of the organized labor movement in the United States and review of legislation affecting the American worker. Attention is given to the industrial relations system of the United States as it relates to those of Western Europe and other nations. (PR: GSM admission or permission of GSM academic advisor)
Grade Mode: Normal Grading Mode

HRM 605 Human Resource Economics **3 Credit hours**
Economic issues in the employment and compensation of labor. Topics emphasized include labor force composition and growth, structure and functioning of labor markets, unemployment, wage theories, wage levels and structures, the economic influence of unions, income distribution, and human capital models. (PR: ECN 253 or ECN 501 plus GSM admission)
Grade Mode: Normal Grading Mode

HRM 610 Collective Bargaining **3 Credit hours**
A comprehensive survey of collective bargaining with special emphasis given to philosophy, structure and the process of negotiations. attention is also given to important developments and emerging trends in collective bargaining. (PR: HRM 600)
Grade Mode: Normal Grading Mode

HRM 615 Arbitration/Grievance Procedur **3 Credit hours**
A study of grievance procedures and arbitration as formalized in labor-management relations, including an analysis of principles and practices of complaint handling, review of concepts and methodology in such grievance handling, review of the role of arbitration as a dispute resolution mechanism, utilization of factfinding and mediation as alternate mechanisms, the preparation and handling of materials in briefs or oral presentations, and the function or role of the arbitrator, impartial chairman, umpire, or similar neutral. (PR: HRM 600)
Grade Mode: Normal Grading Mode

HRM 625 HRIS and Knowledge Mgmt **3 Credit hours**
The development, use, and impact of Human Resource Information Systems and the management of organizational knowledge including knowledge management systems, procedures, policies, and other issues.
Grade Mode: Normal Grading Mode

HRM 630 Labor Law **3 Credit hours**
A survey and analysis of the labor relations law; examination of the extent to which the law regulates and protects concerted action by employees in the labor market; considerations and analysis of the legal framework within which collective bargaining occurs; and analysis of major aspects of employer-employee law, such as wrongful discharge, discrimination, and safety and health law. (PR: HRM 600)
Grade Mode: Normal Grading Mode

HRM 632 HR for Special Population **3 Credit hours**
An introduction to disabilities focusing on adulthood and employment. The course includes a survey of disability laws, disabilities (physical, sensory, and cognitive), and workplace impacts (accessibility, assistive technology, accommodations).
Grade Mode: Normal Grading Mode

HRM 650 Industrial Psychology **3 Credit hours**
Survey of the applications of psychological principles and of research methodologies to the various human problems in industry, such as personnel selection and appraisal; the organizational and social context of human work; the job and work situation; human errors, accidents, and safety; and the psychological aspects of consumer behavior. (PR: GSM admission)
Grade Mode: Normal Grading Mode

HRM 660 Adm of Compen/Fringe Benefits **3 Credit hours**
The development and administration of wage and salary programs, and an analysis of both private and public health, welfare and pension plans. Topics investaged include motivation theory, factors influencing compensation levels, forms of compensation,including incentive plans and fringe benefits, a critacal examination of financing, administration, and general effectiveness of the plans, special issues of managerial compensation, comparable worth, special and related issues. (PR: MGT 620 and GSM admission)
Grade Mode: Normal Grading Mode

HRM 670 Personnel Select & Trng **3 Credit hours**
A study of the personnel employment and selection processes. Emphasis is placed on the rationale for selection and placement; the procedures and problems in recruitment and selection; and the use of tests, interviews, and other selection devices. Special attention is given to the criterion problem and legislation and/or governmental regulations affecting selection procedures. (PR: GSM admission)
Grade Mode: Normal Grading Mode

HRM 671 Human Resource Internship **3 Credit hours**
Project-oriented experience in Human Resources intended for those students with insufficient experience in the field. (PR: Permission of program director and HRM 600)
Pre-req: HRM 600.
Grade Mode: Normal Grading Mode

HRM 675 Human Resource Devel & Trng **3 Credit hours**
This course teaches students how to develop management training modules and materials. Students also learn and use advanced techniques in training design and group facilitation. (PR: GSM admission)
Grade Mode: Normal Grading Mode

HRM 680 Labor Rel in Public Empl **3 Credit hours**
An examination of the development, practices and extent of collective bargaining between federal, state, and local governments and their employees. Emphasis is on the public issues related to sovereignty, unit determinations, impact on budgetary and financing processes, representation precedures, unfair practices, scope of bargaining, impasse resolution, and the strike. Some attention is devoted to the legal and ethical problems inherent in these issues. (PR: HRM 600)
Grade Mode: Normal Grading Mode

HRM 698 Independent Study in Ind Rel **1-3 Credit hours**
Independent study of a specific nature under the supervision of a qualified faculty member. Hours of credit are determined by the magnitude of the project. (PR: Permission of division head or GSM academic advisor)
Grade Mode: Normal Grading Mode

Marketing

MKT 511 Marketing and Management **3 Credit hours**
A comprehensive survey of the fundamental principles of management and marketing applicable to all organizations. Provides the student with a basis for analyzing appropriate situations in a managment/ marketing framework.
Grade Mode: Normal Grading Mode

MKT 580 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

MKT 581 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

MKT 600 Marketing Management **3 Credit hours**
Grade Mode: Normal Grading Mode

MKT 610 Mkt/Nonprofit Organizations **3 Credit hours**
Grade Mode: Normal Grading Mode

MKT 625 Hosp and Tourism Marketing **3 Credit hours**
Examinatino of marketing principles and the unique aspects of services marketing for the purpose of strategic decision making, marketing management and developing marketing plans in the tourism and hospitality industry.
Grade Mode: Normal Grading Mode

MKT 650 Special Topics **1-4 Credit hours**
Pre-req: MKT 501 with a minimum grade of C.
Grade Mode: Normal Grading Mode

MKT 651 Special Topics **1-3 Credit hours**
Grade Mode: Normal Grading Mode

MKT 660 Independent Study **1-4 Credit hours**
Pre-req: MKT 682 with a minimum grade of C.
Grade Mode: Normal Grading Mode

MKT 681 Thesis **1-6 Credit hours**
Attributes: Thesis
Grade Mode: Normal Grading Mode

MKT 682 Adv Marketing Management **3 Credit hours**
An integrated approach to marketing from a managerial point of view-making use of economic, quantitative, and behavioral concepts in analyzing and developing a framework for the dicision-making and implementation of the firm's marketing program.
Grade Mode: Normal Grading Mode

MKT 683 Adv Marketing Research **3 Credit hours**
A study of research methods and procedures used in the marketing process; emphasis will be given to the sources of market data, sampling, preparation of questionnaires, collection and interpretation of data.
Pre-req: MKT 682 with a minimum grade of C and MGT 601 with a minimum grade of C.
Grade Mode: Normal Grading Mode

MKT 684 Global Marketing **3 Credit hours**
This course provides a decision-oriented approach to global marketing; focus will be placed on market entry strategies, segmentation techniques, and marketing mix decisions in a multi-national environment.
Grade Mode: Normal Grading Mode

MKT 685 Marketing Problems **3 Credit hours**
Determination of the marketing mix within the framework of the problem-solving and decision-making process.
Pre-req: MKT 682 with a minimum grade of C.
Grade Mode: Normal Grading Mode

MKT 686 IMC for Prof Services **3 Credit hours**
The importance and application of integrated marketing communications in marketing professional services are examined. Information is drawn from business and other areas of study and experiential learning activities are incorporated.
Pre-req: MKT 501 with a minimum grade of C.
Grade Mode: Normal Grading Mode

MKT 698 Independent Study in Marketing **1-3 Credit hours**
Grade Mode: Normal Grading Mode

MKT 749 Research Paper **3 Credit hours**
Grade Mode: Normal Grading Mode

MKT 797 THESIS **6 Credit hours**
Attributes: Thesis
Grade Mode: Normal Grading Mode

Management

MGT 500 Analytic Methods & Tech **3 Credit hours**
Provides competency in some of the basic quantitative skills necessary for analytical work in business administration. Required of all candidates who have had little or no undergraduate background in mathematics.
Grade Mode: Normal Grading Mode

MGT 578 Import Export Management **3 Credit hours**
Students will learn the general and specific information relevant to conducting import/export business to/from the United States to different parts of the world.
Grade Mode: Normal Grading Mode

MGT 580 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

MGT 601 Quant Methods-Business **3 Credit hours**
The use of quantitative methods for managerial decision making. A review of basic calculus and statistics as required in business. Other topics indlude decision analysis, linear programming and queuing. (PR: Full MBA Admission or Permission of MBA Director)
Grade Mode: Normal Grading Mode

MGT 610 OPERATIONS MANAGEMENT **3 Credit hours**
Grade Mode: Normal Grading Mode

MGT 611 Military Management I **3-9 Credit hours**
MGT 611 concerns the theory and practice of a military officer's management plans to attain outcomes consistent with the organization's mission and goals including strategy formulation, implementation and control.
Grade Mode: Credit/No Credit Grade Only

MGT 612 Military Management II **3-9 Credit hours**
MGT 612 concerns the theory and practice of a military officer's strategic human resource management plans to attain outcomes consistent with the organization's mission and goals including strategy formulation, implementation and control.
Grade Mode: Credit/No Credit Grade Only

MGT 613 Military Management III **3-9 Credit hours**
MGT 613 concerns the theory and practice of a military officer's quantitative and analytical management plans to attain outcomes consistent with the organization's mission and goals including strategy formulation, implementation and control.
Grade Mode: Credit/No Credit Grade Only

MGT 615 Mgmt of Innovation & Tech **3 Credit hours**
Provides a comprehensive introduction to technology and innovation management. Considers issues relating to international markets, innovation, and rapidly changing technology. Also covers effective organizational and managerial approaches to technology.
Grade Mode: Normal Grading Mode

MGT 620 Human Resource Management **3 Credit hours**
The study of policies, methods, and techniques utilized in personnel management and human relations. Specific attention is given to problems of recruitment, selection. compensation, motivation, communications, training , service and benefit programs, performance evaluation, safety, discipline, business ethics, and community relations. (PR: MGT 320 or MKT 511; and GSM admission or permission of GSM academic advisor)
Pre-req: MKT 511 with a minimum grade of C.
Grade Mode: Normal Grading Mode

MGT 630 Mgt & Supervisory Skills Devel **3 Credit hours**
An analysis and application of personal and organizational skills associated with the effective management of both public and private sector organizations. Skills to be developed or refined include time management,decision making, delegation, stress management, oral and written communication, team-building and others. Applied exercises, case studies, simulation, role play, films, and other learning methods are emphasized. (PR: MGT 672)
Pre-req: MGT 672 with a minimum grade of C or MGT 503G with a minimum grade of C.
Grade Mode: Normal Grading Mode

MGT 650 Special Topics **1-4 Credit hours**
PR: Permission of the division head and full M.B.A. admission or permission of GSM academic advisor.
Pre-req: MGT 503 with a minimum grade of C or MGT 503G with a minimum grade of C.
Grade Mode: Normal Grading Mode

MGT 651 Special Topics **1-3 Credit hours**
PR: Permission of the division head and full M.B.A. admission or permission of GSM academic advisor.
Grade Mode: Normal Grading Mode

MGT 655 Management of Small Business **3 Credit hours**
Pre-req: MGT 501 with a minimum grade of C or MGT 501G with a minimum grade of C.
Grade Mode: Normal Grading Mode

MGT 660 Independent Study **1-4 Credit hours**
Independent study of a specific nature under the
Grade Mode: Normal Grading Mode

MGT 665 MANAGEMENT INFORMATION SYSTEMS **3 Credit hours**
Grade Mode: Normal Grading Mode

MGT 670 Management Consulting Skills **3 Credit hours**
Pre-req: MGT 672 with a minimum grade of C or MGT 503G with a minimum grade of C.
Grade Mode: Normal Grading Mode

MGT 671 Business Admin Internship **3 Credit hours**
Project-oriented experience in business operations and organizations intended for those students with insufficient experience in the field. (PR: Full Admission and permission of program director)
Grade Mode: Normal Grading Mode

MGT 672 Organizational Behavior **3 Credit hours**
Basic ideas and concepts for the effective management of an organization. Major topics include motivation, communication and decision-making processes, group dynamics, leadership study, conflict management, work and organizational design, and organization development. Emphasis on the organizational behavior and theory.
Grade Mode: Normal Grading Mode

MGT 673 Prob Personnel Management **3 Credit hours**
Principles and procedures of the personnel system in the firm; selected areas of recruitment and selection; training and development; performance appraisal and evaluation; general communications system; role of government in manpower administration.
Pre-req: MGT 672 with a minimum grade of C or MGT 503G with a minimum grade of C.
Grade Mode: Normal Grading Mode

MGT 674 Prod/Operation Management **3 Credit hours**
The study of operations management methods used in production, manufacturing, services and other business operations. Includes project management, capacity planning and transportation problems.
Pre-req: MGT 601 with a minimum grade of C.
Grade Mode: Normal Grading Mode

MGT 675 Prob Labor-Mgt Relations **3 Credit hours**
Comprehensive coverage of the development of the field of industrial relations. The impact of organized labor and federal social legislation of management decision. Alternative directions for future developments are studied.
Pre-req: MGT 672 with a minimum grade of C or MGT 503G with a minimum grade of C.
Grade Mode: Normal Grading Mode

MGT 676 Organization Theory Desgn **3 Credit hours**
Analysis of organizational systems and subsystems incorporating, traditional, behavioral, and situational approaches to organizational and work unit design. Emphasizes environmental interface and interdependencies as function of internal systems phenomena.
Pre-req: MGT 672 with a minimum grade of C or MGT 503G with a minimum grade of C.
Grade Mode: Normal Grading Mode

MGT 677 Supply Chain Management **3 Credit hours**
This course is a study of efforts to optimize actions of manufacturers, suppliers, distributors, retailers, and other selected modes in their endeavors to serve the ultimate customers.
Grade Mode: Normal Grading Mode

MGT 680 Entrepreneurship **3 Credit hours**
The management of small business emphasizes how they are started and financed, how they produce and market their products and services and how they manage their human resources.
Grade Mode: Normal Grading Mode

MGT 681 Thesis **1-6 Credit hours**
Attributes: Thesis
Grade Mode: Normal Grading Mode

MGT 692 Ethics/Global Aspects Bus **3 Credit hours**
An examination of the Manager's social, ethical, and environmental responsibilities, not only to their domestic constituents, but also in the increasingly competitive international arena.
Pre-req: MGT 672 with a minimum grade of C.
Grade Mode: Normal Grading Mode

MGT 696 Admin Policy & Strategy **3 Credit hours**
Capstone graduate business course for Master of Science students (HRM & HCA). Emphasis on policy and strategy issues in a service and/or public setting instead of within a "for-profit" environment.
Grade Mode: Normal Grading Mode

MGT 698 Independent Study in Mgmt **1-3 Credit hours**
Grade Mode: Normal Grading Mode

MGT 699 Strategic Management **3 Credit hours**
The study and application of top management's plan to attain outcomes consistent with the organization's mission and goals, including; strategy formulation, implementation and control. (PR: Permission of GSM academic advisor)
Grade Mode: Normal Grading Mode

MGT 749 RESEARCH PAPER **3 Credit hours**
Grade Mode: Normal Grading Mode

MGT 797 THESIS **6 Credit hours**
Attributes: Thesis
Grade Mode: Normal Grading Mode

MGT 799 Business Policy **3 Credit hours**
Grade Mode: Normal Grading Mode

Management and Practice, Nurse Anesthesia

MPNA 700 Health Policy and Delivery **3 Credit hours**
This course is designed to provide the student with an overview of the development of health policy and delivery in the United States. Emphasis is placed onthe evolution of the structure, financing and function of the current delivery system in America and how these aspects complare to those of other countries.
Grade Mode: Normal Grading Mode

MPNA 710 Fin Mgmt for Health Care Prof **3 Credit hours**
Application of financial management techniques to decision making for health care providers. Focus is on financial statement analysis, working capital management, capital budgeting, evaluating financial risk and return, long-term debt financing, and developing a financial portfolio.
Grade Mode: Normal Grading Mode

MPNA 711 Mkt & Mgt for Health Care Prof **3 Credit hours**
This course will provide an overview of the basic components of marketing such as the marketing mix and SWOT analysis. It will also enlighten the students regarding the various established basic management theories.
Grade Mode: Normal Grading Mode

MPNA 715 Health Economics **3 Credit hours**
Economic analysis applied to the health services sector. Traditional concepts such as efficiency, production and distribution are discussed within the context of the unique health care environment. The micro/macro economic impacts of health insurance, government participation, credentialing and regulation are analyzed.
Grade Mode: Normal Grading Mode

MPNA 724 Evidence Based Rscrch Mthds I **3 Credit hours**
This course is designed to provide the student with the necessary foundation to participate in the design, implementation and evaluation of field and/or clinical research. Upon completion of this course, the student will understand the basics of the scientific method and its application to research design. The role of the Institutional Review Board, including the Belmont Report, will be discussed. Student will be IRB certified by the end of the course.
Pre-req: MPNA 700.
Grade Mode: Normal Grading Mode

MPNA 725 Evidence Based Rsrch Mthds II **3 Credit hours**
To provide the student with an understanding of the appropriateness, benefits and limitations of statistical methods when applied to field and/or clinical research. Upon completion of the course, the student will understand the theory behind parametric and nonparametric statistical techniques. At this point, students will begin to conceptualize their research projects.
Pre-req: MPNA 724.
Grade Mode: Normal Grading Mode

MPNA 726 Statistical Methods for Resear **3 Credit hours**
To provide the student with the skills necessary to apply the appropriate statistical techniques for field and/or clinical research. Topics include analysis of variance, correlation and regression, chi-square, t-tests, etc.
Pre-req: MPNA 700.
Grade Mode: Normal Grading Mode

MPNA 730 Medical/Legal Issues **3 Credit hours**
Legal aspects of corporate liability, medical malpractice, informed consent, patient rights, privacy, fraud and abuse, plus governmental regulation of health professionals and health facilities. The legislative process, legislative oversight and regulatory agencies are discussed in depth.
Grade Mode: Normal Grading Mode

MPNA 734 Principles of Anesthesia Prac **4 Credit hours**
Principles of patient assessment, airway management, anesthesia machine, monitoring devices, fluid and blood therapy, positioning, and prevention of infection. Recognition and management of selected anesthetic complications.
Grade Mode: Normal Grading Mode

MPNA 734A Simulation Lab **1-5 Credit hours**
In this course students will apply knowledge of the basic principles of anesthesia to "hands on" experience in the simulation lab. Areas covered include the anesthesia machine and other equipment, monitoring modalities, airway management, and all phases of anesthetic management.
Co-req: MPNA 734
Attributes: Onsite Learning Experience
Grade Mode: Normal Grading Mode

MPNA 735 Senior Seminar **3 Credit hours**
Management decisions related to complex anesthesia situations including but not limited to: unusual co-existing disease, uncommon operative procedure, adverse complications or unexpected events.
Grade Mode: Normal Grading Mode

MPNA 743 Management and Leadership **6 Credit hours**
The application of management and leadership principles via clinical job rotation, implementation of advanced management principles to the delivery of nurse anesthesia patient care in various settings.
Pre-req: NUR 741.
Grade Mode: Normal Grading Mode

MPNA 745A Pediatrics for Nurse Anesth I **3 Credit hours**
In-depth study of the specialty of pediatric anesthesia. Subject matter will include: anatomy, physiology, and pathophysiology of the pediatric patient, preoperative evaluation and preparation, airway management, implications of rare pediatric disorders, and management for painful procedures.
Grade Mode: Normal Grading Mode

MPNA 745B Obstetrics for Nurse Anesth II **3 Credit hours**
Course takes an in-depth look at the normal physiological changes associated with pregnancy. It will investigate management issues starting from the basic advancing to the complex. Issues include maternal fetal physiology, fetal monitoring, anesthetic techniques, high-risk pregnancy, emergency management, and fetal and neonatal resuscitation.
Grade Mode: Normal Grading Mode

MPNA 745C Case Seminar **6 Credit hours**
Management decisions related to complex anesthesia situations including but not limited to: unusual co-existing disease, uncommon operative procedure, adverse complications or unexpected events. Study of the anesthetic care of specialized patient populations requiring advanced planning, decision making and case management proficiency.
Pre-req: NUR 741.
Grade Mode: Normal Grading Mode

MPNA 753 Mgmt Complex Health Care **3 Credit hours**
In this course, emphasis is placed on the management of complex health care institutions representing the organizational spectrum from horizontally integrated group practices to large integrated health centers.
Pre-req: MPNA 700.
Grade Mode: Normal Grading Mode

MPNA 755 Mkt Goods/Serv Med Env **3 Credit hours**
An investigation of the role of marketing in today's health care environment. Topics include traditional marketing concepts such as segmentation and promotion blended with unique issues like health services marketing, direct to consumer pharmaceutical advertising, mass media ethics, the role of the Internet in health product/services marketing etc.
Pre-req: MPNA 700.
Grade Mode: Normal Grading Mode

MPNA 756 Clinical and Admin IS **3 Credit hours**
Foundations of clinical information use starting with information collection, processing, decision making and recording. Special emphasis on management information systems to support the nurse's work and health care delivery.
Pre-req: MGT 678.
Grade Mode: Normal Grading Mode

MPNA 772 Organizational Behavior **3 Credit hours**
Advanced level theories of effective organization management as they relate to health care organizations will be provided. Topics include: managing diverse work groups in the health care system, planning and organizing, decision making models, various leadership styles, and controlling and evaluating management effectiveness.
Grade Mode: Normal Grading Mode

MPNA 777 Moral Management **3 Credit hours**
A discussion of the concept of Moral Management. Guidelines for how to make thical decisions and tough choices are included. Cases relevant to ethical/unethical scenarios will be analyzed. Students will view ethics videos and write a Credo term paper.
Grade Mode: Normal Grading Mode

MPNA 796 Policy Strategy Entrepreneur **3 Credit hours**
The study of administrative decision making under conditions of uncertainty. Policy construction at top administrative levels with emphasis on strategy and ethics with consideration of major functions of an organization. Includes developing a business plan, assessing the environment, evaluating markets, securing financing, marketing services, analyzing and negotiating managed care, and insurance contracts.
Grade Mode: Normal Grading Mode

MPNA 799 Research Project **3 Credit hours**
This is a 9 credit hour sequence of three (3 credit hours) courses. The student is required to apply the principles of scientific research methods to a field and/or clinical investigation. Students are required to design, implement, evaluate and present (written and oral) a research project approved and guided by the student's research project committee. Each student will have a research project committee chair and two toher designated committee members.
Grade Mode: Normal Grading Mode

Management Information Systems

MIS 600 Management Information Systems **3 Credit hours**
The course examines personal, work group, and enterprise information systems with respect to their value, their components, and the process of developing them.
Grade Mode: Normal Grading Mode

MIS 605 Systems Analysis and Design **3 Credit hours**
Introduction to information systems from system implementor's viewpoint; information systems life cycle; techniques of analysis; data dictionaries and data flow diagrams; computer-oriented system description. (PR: Admission to program)
Grade Mode: Normal Grading Mode

MIS 610 Systems Quality Assurance **3 Credit hours**
This course will cover the steps in developing enterprise IT policies, standards, guidelines and procedures while ensuring quality and compliance responsible for the design, implementation , and evaluation, and monitoring of a comprehensive system. Physical design of information systems; hardware selection; software design; database considerations; program development; software structuring techniques; cost/performance trade-offs; system implementation; evaluation and optimization techniques.
Pre-req: MIS 605 with a minimum grade of C.
Grade Mode: Normal Grading Mode

MIS 612 ITM Capstone Project **3 Credit hours**
Tools and techniques for analyzing companies and their financial statements and for evaluating financial alternatives, including discounted cash flow, net present value and returned on investment.
Grade Mode: Normal Grading Mode

MIS 615 Info Tech Strategies **3 Credit hours**
This course provides sound principles for managing information technology computers and telecommunications systems as well as the processes and procedures for applying the principles.
Grade Mode: Normal Grading Mode

MIS 620 Technology Planning **3 Credit hours**
Methods of technology planning, strategic management, and forecasting for use in technology intensive organizations are discussed, including technology life cycles and strategies for commercializing products.
Grade Mode: Normal Grading Mode

MIS 621 Information Structures I **3 Credit hours**
Representation and manipulation of numeric and non-numeric information, linear lists, strings, multilinked structures; sorting and searching; storage management; data structures in programming language. Relevant aspects of discrete mathematics.
Grade Mode: Normal Grading Mode

MIS 622 Emerging Tech in Info Systems **3 Credit hours**
This course will explore the emerging technologies in information systems. These technologies are generally new but include older technologies that are still controversial and relatively undeveloped in potential. A continuation of MIS 621. Tree, graph, and set structures; file structures for secondary storage; aspects of discrete mathematics.
Pre-req: MIS 621 with a minimum grade of C.
Grade Mode: Normal Grading Mode

MIS 623 Database Management **3 Credit hours**
Review of information structures and of relationships among data elements and objects. Relational database theory; design and organization of databases, retrieval structures, and query mechanisms.
Grade Mode: Normal Grading Mode

MIS 624 Data Warehousing **3 Credit hours**
A hand-on introduction to the concepts and techniques of data warehousing and data mining.
Pre-req: MIS 623 with a minimum grade of C.
Grade Mode: Normal Grading Mode

MIS 630 Qual & Prod Methods **3 Credit hours**
Study of quality and productivity improvement methods with emphasis on applications to knowledge worker organizations. Examines total quality management, and personal and organizational productivity improvement processes.
Grade Mode: Normal Grading Mode

MIS 647 IT Disaster Plan and Recovery **3 Credit hours**
This course provides the skills necessary to manage IT disaster recovery planning. The course focuses on the protection of information. Students will analyze risk, design a plan, and explore available technologies.
Grade Mode: Normal Grading Mode

MIS 650 Special Topics **1-4 Credit hours**
Permission of the division head and full MBA admission.
Grade Mode: Normal Grading Mode

MIS 651 Special Topics **1-4 Credit hours**
Permission of the division head and full MBA admission
Grade Mode: Normal Grading Mode

MIS 659 Digital Access Pol & Strats **3 Credit hours**
An introductory course for creating digital accessibility policies and plans for the workplace. Includes strategies to create accessible documents, evaluate web site accessibility, and investigate assistive technologies.
Grade Mode: Normal Grading Mode

MIS 660 Computing & Info Sys Tech **3 Credit hours**
Provides a board understanding of computing and information systems technologies with emphasis on development, current trends, strategic and tactical management, and legal and regulatory issues.
Grade Mode: Normal Grading Mode

MIS 670 Business Sys Proj Mgt **3 Credit hours**
This course presents concepts, structures and experiential learning strategies to help lead and participate in successful business systems projects using the Project Management Institute's (PMI's) methodology.
Grade Mode: Normal Grading Mode

MIS 678 Management Infor Systems **3 Credit hours**
To familiarize students with the characteristics and functions of management information systems, as well as the benefits, limitations, and applications for advanced management information systems.
Grade Mode: Normal Grading Mode

MIS 680 Health Comm Telematics **3 Credit hours**
A presentation and analysis of the primary and emerging technological means of communication, collaboration, and information search and retrieval within the healthcare and medical fields.
Grade Mode: Normal Grading Mode

MIS 681 Thesis **1-6 Credit hours**
Investigate a research problem of theoretical interest and practical value under mentorship of a management information systems faculty.
Attributes: Thesis
Grade Mode: Credit/No Credit Grade Only

MIS 685 Bus Intel/Analytics **3 Credit hours**
Introduction to methods to improve fact-based managerial decision making. Focus on analytics types and data manipulation to discover patterns and generate information associated with products and services.
Pre-req: MIS 678 with a minimum grade of C.
Grade Mode: Normal Grading Mode

MIS 688 Independent Study **1-4 Credit hours**
An approved study of special interests concerning information technology management, under the supervision of a faculty member.
Grade Mode: Normal Grading Mode

MIS 698 Internship **3 Credit hours**
Supervised on-the-job experience. The student will work in a technology company or technical department within an organization. (PR: Permission)
Attributes: No Textbook Required, Onsite Learning Experience
Grade Mode: Credit/No Credit Grade Only

MIS 699 Capstone **3 Credit hours**
An individualized information technology management capstone project, which will be planned and carried out under the supervision of a faculty member. (PR: Full Admission to the ITM program, and completion of 28 hours min toward ITM degree).
Grade Mode: Credit/No Credit Grade Only

Sport, Tourism and Hospitality Management

STHM 505 Sport Psychology **3 Credit hours**
An examination of theory, research, and application of psychological principles related to sport and exercise.
Grade Mode: Normal Grading Mode

STHM 511 Ethics in Sports **3 Credit hours**
A philosophical examination of both the fundamental ethical principles, as well as, the most common ethical dilemmas and controversies found in sports.
Grade Mode: Normal Grading Mode

STHM 516 Facility Design & Management **3 Credit hours**
This course covers quantity, location, and design standards for facilities. Includes safety, functionality, durability, and maintenance requirements in planning and design.
Grade Mode: Normal Grading Mode

STHM 525 Sport in Film **3 Credit hours**
The relationship between sports and feature motion pictures are analyzed in the historical, social and cultural contexts.
Grade Mode: Normal Grading Mode

STHM 530 Sport Law **3 Credit hours**
The study of the basic principles of the legal system as they operate in the environment of American sport.
Grade Mode: Normal Grading Mode

STHM 540 Women in Sport **3 Credit hours**
The history of women in sport, gender equity, opportunities for women in intercollegiate and professional sports (such as participant, coach, trainer, journalist, agent and promoter), and physiological perspectives.
Grade Mode: Normal Grading Mode

STHM 575 Sem Sport MGT MKT **3 Credit hours**
This course is designed to provide students with an overview of all aspects involved in the Sports Management and Marketing field through classroom lectures, guest speakers, and field trips.
Grade Mode: Normal Grading Mode

STHM 580 Special Topics **1-4 Credit hours**
Special topics are experimental courses that offered by the Sport, Tourism and Hospitality Management department.
Grade Mode: Normal Grading Mode

STHM 581 Special Topics **1-4 Credit hours**
Special topics are experimental courses that offered by the Sport, Tourism and Hospitality Management department.
Grade Mode: Normal Grading Mode

STHM 582 Special Topics **1-4 Credit hours**
Special topics are experimental courses that offered by the Sport, Tourism and Hospitality Management department.
Grade Mode: Normal Grading Mode

STHM 583 Special Topics **1-4 Credit hours**
Special topics are experimental courses that offered by the Sport, Tourism and Hospitality Management department.
Grade Mode: Normal Grading Mode

STHM 596 Olympic Games **3 Credit hours**
Exploring the important role of the Olympic Movement in politics since the modern Olympic Movement in 1896.
Grade Mode: Normal Grading Mode

STHM 601 Sports Analytics **3 Credit hours**
This course helps students to develop analytical techniques for sports teams, focusing on player performance prediction and business modeling, covering critical thinking, statistical analysis, predictive analytics, optimization, and simulation skills.
Grade Mode: Normal Grading Mode

STHM 615 Legal Concerns in Sport Admin **3 Credit hours**
This course is designed to prepare students with the knowledge to apply the legal doctrines that will enhance their ability as sport leaders to make prudent management and operational decisions.
Grade Mode: Normal Grading Mode

STHM 624 Current Issues in Sport Admin **3 Credit hours**
An in-depth look at current issues affecting all areas of the Sport Administration field.
Grade Mode: Normal Grading Mode

STHM 643 Sport in Social Process **3 Credit hours**
An in depth analysis of the processes by which sport evolved as a significant component of modern American life.
Grade Mode: Normal Grading Mode

STHM 652 Organ Behav Sprt Leis Indus **3 Credit hours**
Examine the complexity of human behavior in organizational settings in sport and leisure industry, and the role of managers and leaders in affecting that behavior.
Grade Mode: Normal Grading Mode

STHM 660 Internship **3-6 Credit hours**
The placement of an individual into a Sport, Tourism and Hospitality agency to observe and participate in its operation.
Attributes: Onsite Learning Experience
Grade Mode: Normal Grading Mode

STHM 671 Sport Admin Research Methods **3 Credit hours**
This course introduces students to key research methods in Sport Administration, with a focus on both quantitative and qualitative approaches and their practical applications in the field.
Grade Mode: Normal Grading Mode

STHM 674 Sport Finance and Business **3 Credit hours**
This course covers financial principles and business strategies in the sport industry, students will learn financial statement analysis, budgeting skills, and economic concepts for informed decision-making in sport organizations
Grade Mode: Normal Grading Mode

STHM 675 MKT MGT of Sport Industry **3 Credit hours**
This course explores consumer-centered branding strategies and their application in the sports industry. It offers frameworks for building brand equity and connects theory to global practices through real-world case studies
Grade Mode: Normal Grading Mode

STHM 681 Thesis **1-6 Credit hours**
Research opportunities in the STHM field are broad. Students can choose to work with one of the faculty members on a research direction which the faculty and student choose.
Attributes: Thesis
Grade Mode: Normal Grading Mode

STHM 685 Independent Study **1-4 Credit hours**
Independent studies are tutorials, directed and independent readings, directed and independent research, problem reports, and other individualized activities which allow students to explore in depth a specific aspect.
Grade Mode: Normal Grading Mode

STHM 686 Independent Study **1-4 Credit hours**
Independent studies are tutorials, directed and independent readings, directed and independent research, problem reports, and other individualized activities which allow students to explore in depth a specific aspect.
Grade Mode: Normal Grading Mode

STHM 687 Independent Study **1-4 Credit hours**
Independent studies are tutorials, directed and independent readings, directed and independent research, problem reports, and other individualized activities which allow students to explore in depth a specific aspect.
Grade Mode: Normal Grading Mode

STHM 688 Independent Study **1-4 Credit hours**
Independent studies are tutorials, directed and independent readings, directed and independent research, problem reports, and other individualized activities which allow students to explore in depth a specific aspect.
Grade Mode: Normal Grading Mode

STHM 696 **Seminar in Sport Admin** **3 Credit hours**
This course explores consumer-centered branding strategies and their application in the sports industry. It offers frameworks for building brand equity and connects theory to global practices through real-world case studies.
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

Accountancy, M.S.

Program Description

The Master of Science in Accountancy emphasizes skills necessary to succeed in the profession of public accounting. The program requires 30 semester hours of study.

3+2 Program (B.B.A., With M.B.A. Or M.S. In Accountancy, HRM Or HCA)

The 3+2 Program offered by the College of Business allows students to earn both their Bachelor of Business Administration and Master of Accountancy, Business Administration, Human Resources Management, or Health Care Administration degrees in a total of five years. Students are allowed to double-count up to nine hours of graduate-level courses from the master's degree toward their bachelor's degree requirements. Please contact the College of Business Graduate Academic Advisor for the specific entrance requirements.

Admission Requirements

Applicants should follow the admissions process described in the Graduate Catalog, or at the Graduate Admissions website at www.marshall.edu/graduate/admissions/how-to-apply-for-admission (https://www.marshall.edu/graduate/admissions/how-to-apply-for-admission/).

In addition to the requirements for admission to Marshall University as a graduate student, applicants must either have:

1. An undergraduate degree in business from an accepted, accredited institution with an undergraduate Grade Point Average (GPA) of 3.0 or higher on a 4.0 scale for all previously completed coursework;
   or
2. Completed the following or equivalent with a 3.0 GPA or higher:

Code	Title	Credit Hours
ACC 311	Intermediate Accounting I	3
ACC 312	Intermediate Accounting II	3

ACC 318	Cost Accounting I	3
ACC 341	Acc Information Systems	3
ACC 348	Federal Taxation	3
ACC 429	Auditing I	3

Applicants who do not meet either of the above criteria may be granted provisional admission by the Coordinator of the M.S. in Accountancy program (or other person or persons designated by the Chair of the Department) on a case-by-case basis. Applicants seeking provisional admission should supply relevant information in support of admission, such as a resume, letters of recommendation, and any relevant test scores (GMAT, GRE, or professional certification exams for example).

- All students admitted to the program will complete the following undergraduate courses with a *C* or better. Students who have completed equivalent courses will receive credit for this requirement. Those who have not completed the courses will complete them or their equivalent as a part of the degree requirements.

Code	Title	Credit Hours
ACC 311	Intermediate Accounting I	3
ACC 312	Intermediate Accounting II	3
ACC 318	Cost Accounting I	3
ACC 341	Acc Information Systems	3
ACC 348	Federal Taxation	3
ACC 429	Auditing I	3

- Conditional Admission can be granted for one term if the applicant meets all program requirements for admission except they have not officially graduated with their bachelor's degree. Once the degree is granted, the applicant would need to resubmit his or her official transcripts for full admission.

Plan of Study

The following courses must be completed:

Code	Title	Credit Hours
Required Courses		
ACC 615	Audit Practice & Analytics	3
ACC 620	Analytic Modeling Acct	3
ACC 632	AIS Controls	3
ACC 698	Ethics in Accounting	3
LE 691	Gov Bus Relationships	3
MGT 601	Quant Methods-Business	3
Business Elective		3
Area of Emphasis: Select from Business Analysis and Reporting, Tax Compliance and Planning, or Information Systems and Controls		9
Total Credit Hours		**30**

In addition, a student with an undergraduate degree other than business must complete a program of study approved by the Coordinator of the M.S. program.

Students may choose any Business Elective course with the approval of the MS in Accountancy program coordinator. If the Emphasis Information Systems and Controls is selected the Business Elective must be an Accounting course. If the Emphasis Tax Compliance and Planning is selected, the Business Elective must have at least fifty percent STEM content.

- Business Analysis and Reporting, Emphasis (p. 92)
- Information Systems and Controls, Emphasis (p. 92)
- Tax Compliance and Planning, Emphasis (p. 92)

Business Analysis and Reporting, Emphasis

Plan of Study

Code	Title	Credit Hours
Select nine hours from the following courses:		9
ACC 512	Govt NFP Accounting	
ACC 514	Corp and Partner Accounting	
ACC 617	Advanced Controllership	
ACC 618	Accounting Research	
ACC 640	Forensic ACC Civil Litigation	
Total Credit Hours		**9**

Information Systems and Controls, Emphasis

Plan of Study

Select nine hours from any graduate MIS courses.

Tax Compliance and Planning, Emphasis

Tax Compliance and Planning, Emphasis

Plan of Study

Code	Title	Credit Hours
Select nine hours from the following courses:		9
ACC 544	Consulting for CPAs	
ACC 548	Taxation of Entities	
ACC 616	Adv Income Tax Procedure	
ACC 648	Tax Research	

Business Administration, D.B.A.

Program Description

The Marshall University Doctor of Business Administration program is a research-based doctoral program that combines a disciplined approach to scholarship with a focus on compelling problems of practice. Students will study seminal and contemporary business literature to develop research questions in their area of interest.

They will perform literature reviews, design and perform research studies, analyze data, and draw relevant conclusions that affect economic development and business innovation. Students will choose a concentration that focuses on one broad business area, and they will be required to complete a proposal and dissertation as part of the program.

Duration of Degree Program

The D.B.A. program is a minimum 66-credit hour cohort program typically completed within three years with the coursework completed during the first two years. The third year is devoted to the completion of the dissertation. Electives and other courses may be approved by the D.B.A. Program Director. It is normally a full-time program. The entry term is in August (Fall Semester).

Concentrations

There are three concentration areas to choose from: accounting, health care management, or management and entrepreneurship. Students must declare one of these concentration areas when entering the program and finalize their choice during the first semester of study.

Program Delivery

Classes in the D.B.A. program are delivered using the hybrid method, which includes both online and face-to-face interactions. The face-to-face portion of the classes meet two times during the fall and spring semesters, and once in the summer semester. These face-to-face classes will be scheduled on Fridays and Saturdays and will consist of approximately 12 to 15 hours of instruction. There are three virtual classes held each fall and spring semester (two virtual classes during the summer semester) on Saturdays. The remainder of the instruction and coursework will be completed online (i.e., asynchronously and virtually) using Marshall's MUOnline learning platform. Students will be required to possess a personal computer that is compatible with MU software for completion of the coursework.

Program Requirements:

Proposal

D.B.A. program students are required to complete and submit a *dissertation proposal* to their Dissertation Committee. Students take nine hours of the dissertation course DBA 790 Dissertation Design, during the spring and summer semesters of their second year. In the last semester enrolled in DBA 790 Dissertation Design, students must defend their dissertation proposal and receive final approval from their dissertation committee. If students do not defend the proposal and receive final approval, within the nine required hours of DBA 790 Dissertation Design, they must register for additional hours (i.e. up to 12 cumulative additional hours) of DBA 790 Dissertation Design until this is completed.

Dissertation

D.B.A. program students are required to complete and submit a *doctoral dissertation* to their Dissertation Committee. Students take nine hours of dissertation courses DBA 791 Dissertation, both semesters of the third year upon satisfactory completion of all other coursework and the proposal defense. In the last semester enrolled in DBA 791 Dissertation, students may defend their dissertation and receive final approval from their dissertation committee. If students do not defend and receive approval, within the eighteen required hours of DBA 791 Dissertation, they must register for additional hours (i.e. up to 36 cumulative additional hours) of DBA 791 Dissertation until this is completed.

Grades And Time Frame

Proposal and dissertation courses are graded credit/no credit. Students must pass these courses and complete other courses with a cumulative grade point average of 3.0 or better with not more than three-credit hours of "C". Should a student fail to pass or complete a course with the required grade, the D.B.A. Program Committee may offer an alternative activity as a substitute. In some circumstances, the student may be placed on academic probation with an improvement plan from the Dean's Office. Subsequent academic deficiencies could lead to dismissal from the program. The D.B.A. Program Committee will handle other delays in progress on a case-by-case basis. Students must complete the D.B.A. program within six years of starting the program.

Academic Conference Requirement

Students are required to present at two academic conferences, approved by the Program Director, prior to graduation.

Admission Requirements

The program will admit students every fall semester in a cohort. Students must meet all MU requirements for admission and be admitted to graduate study. Please refer to the Graduate Studies webpage at http://www.marshall.edu/graduate/admissions/how-to-apply-for-admission (http://www.marshall.edu/graduate/admissions/how-to-apply-for-admission/).

The admission process for the D.B.A. program is competitive and emphasizes academic ability, professional work experience, and other indicators of potential for program success. The D.B.A. Program Committee will consider the following items as preferred qualifications:

- A completed master's degree in business or a related area from an accepted, accredited institution (must have a bachelor's degree at minimum);
- Relevant professional and/or senior level management experience;
- Other evidence of achievements and experience including written or oral contributions to the field of expertise, professional certifications, professional development programs, and awards/honors; and
- GMAT or GRE scores (optional).

The D.B.A. Program Committee is more likely to consider candidates for admission to the program if they have more of these qualifications. The materials that are required in the application package include:

- A cover letter and resume or curriculum vitae listing and describing the applicant's academic and work experience, and other qualifications;
- A personal interest statement that is 4 to 5 pages in length and explains the candidate's objectives for joining the program, goals upon graduation, potential research questions of interest, and how the candidate's work experience will contribute to this research;
- Academic transcripts showing all undergraduate work and graduate work, if applicable; and
- Three letters of recommendation.

The D.B.A. Program Committee will review all documents to identify candidates who have a high likelihood of succeeding in the program. The D.B.A. Program Committee may interview these candidates before making an admission decision.

Plan of Study

Code	Title	Credit Hours
First Semester (Fall)		
DBA 701	Res Bus & Econ Dev	3
DBA 710	Bus Research Design Method	3
DBA 711	Bus Quant Methods I	3
Second Semester (Spring)		
DBA 702	Cur Research Bus Innovation	3
DBA 712	Bus Quant Method II	3
Choose one of the following depending on area of emphasis:		3
DBA 720	Research Sem in Man Acct	
DBA 730	Research Sem in HC Delivery	
DBA 740	Research Sem HRM	
Third Semester (Summer)		
DBA 703	Cur Research Issues Bus Tech	3
Choose one of the following depending on area of emphasis:		3
DBA 721	Research Sem in Audit	
DBA 731	Res Mgr Epidemiology	
DBA 741	Res Op Bus Models & Strat	
Fourth Semester (Fall)		
DBA 704	Research Global & Intl Bus	3
DBA 713	Bus Quant III	3
Choose one of the following depending on area of emphasis:		3
DBA 722	Research Sem in Fin Acct	
DBA 732	Res Sem HC Inform Mgt	
DBA 742	Res Sem in Entr, Sm Bus, & FF	
Fifth Semester (Spring)		
DBA 705	Ped in Bus Schools	3
DBA 714	Qual Methods	3
DBA 790	Dissertation Design	3
Sixth Semester (Summer)		
DBA 790	Dissertation Design	6
Seventh Semester (Fall)		
DBA 791	Dissertation	9
Eighth Semester (Spring)		
DBA 791	Dissertation	9
Total Credit Hours		**66**

- Accounting, Area of Emphasis in D.B.A. (p. 94)
- Health Care Management, Area of Emphasis in D.B.A. (p. 94)
- Management and Entrepreneurship, Area of Emphasis in D.B.A. (p. 94)

Accounting, Area of Emphasis in D.B.A.

Code	Title	Credit Hours
D.B.A. program students will be required to attend two academic conferences related to their concentration area that are approved by the D.B.A. Program Committee.		
DBA 722	Research Sem in Fin Acct	3
DBA 720	Research Sem in Man Acct	3
DBA 721	Research Sem in Audit	3

Health Care Management, Area of Emphasis in D.B.A.

Code	Title	Credit Hours
D.B.A. program students will be required to attend two academic conferences related to their concentration area that are approved by the D.B.A. Program Committee.		
DBA 730	Research Sem in HC Delivery	3
DBA 731	Res Mgr Epidemiology	3
DBA 732	Res Sem HC Inform Mgt	3

Management and Entrepreneurship, Area of Emphasis in D.B.A.

Code	Title	Credit Hours
D.B.A. program students will be required to attend two academic conferences related to their concentration area that are approved by the D.B.A. Program Committee.		
DBA 740	Research Sem HRM	3
DBA 741	Res Op Bus Models & Strat	3
DBA 742	Res Sem in Entr, Sm Bus, & FF	3

Business Administration, M.B.A.

Program Description

Qualified candidates are given an opportunity to earn the Master of Business Administration degree. In keeping with its purpose of providing professional preparation and foundation, the M.B.A. program gives emphasis to building a strong fundamental framework and to developing skills in managerial problem-solving and decision-making.

Program Design

Business policies and procedures, reflecting rapid advancement in technology, are subject to change over time. Methods and practices in current use may be totally inadequate for coming decades. For this reason, greater emphasis is placed on sound general principles

and decision-making techniques which provide a base for continuous learning.

To accomplish this purpose, the program involves a broad study of functional areas of business and their interrelationships, with emphasis on application of knowledge, concepts, and analytical methods for problem-solving.

The program can be completed in one year, attending on a full-time basis, depending on the candidate's previous training.

The University and the College of Business reserve the right, even after the enrollment of students, to make individual curricular adjustments whenever serious deficiencies or needs are found. This may involve additional coursework in speech and/or English whenever necessary. Deficiencies will be determined by the M.B.A. program director. Students may be required to take such courses without credit toward the master's degree and at their own expense.

3+2 Program (B.B.A., with M.B.A. or M.S. in Accountancy, HRM or HCA)

The 3+2 Program offered by the College of Business allows students to earn both their Bachelor of Business Administration and Master of Accountancy, Business Administration, Human Resources Management, or Health Care Administration degrees in a total of five years. Students are allowed to double-count up to nine hours of graduate-level courses from the master's degree toward their bachelor's degree requirements. Please contact the College of Business Graduate Academic Advisor for the specific entrance requirements.

Dual Degree: Pharm.D. and M.B.A.

Students admitted to the School of Pharmacy may also seek admission to the Lewis College of Business to pursue a Master of Business Administration (M.B.A.) degree. The application procedure and the student's enrollment status will vary depending on the student's undergraduate degree.

All students wishing to pursue the dual degree option must first consult with the Pharm. D. advisor regarding when they should apply for admission. Students who are admitted to the M.B.A. program will be advised by a Pharm. D. advisor and an M.B.A. advisor. The advisors are responsible for ensuring students are making appropriate progress toward both degrees, enroll in the proper sequence of courses, and enroll in the proper section of the courses.

Pharm. D. Students Holding a Baccalaureate Degree: All students who have earned a baccalaureate degree from a regionally accredited college or university may apply for admission to the M.B.A. program. Students must meet the published admission criteria and complete the published degree requirements for the M.B.A. program. When admitted, the student will be classified depending upon his or her completion of core business courses.

Pharm. D. Students Who Do Not Have a Baccalaureate Degree: Students who have not earned a baccalaureate degree from a regionally accredited college or university may apply for admission to the M.B.A. program and pursue the degree under the following conditions. During their enrollment in the two degree programs, students who do not hold the baccalaureate will be continuously classified as Provisionally Admitted for the M.B.A. program. Students beginning the final semester of the Pharm. D. program of study will apply for graduation. Students in good academic standing in both programs and eligible to receive both degrees at the end of the term will be reclassified as Fully Admitted to the M.B.A. program. Students who withdraw or are dismissed from the Pharm. D. program will also be withdrawn from the M.B.A. program regardless of level of degree completion or academic standing.

Full Admission

Applicants should follow the admissions process described in this catalog or the Graduate Admissions website: https://www.marshall.edu/admissions/graduate/.

Applicants must have the following:

1. An undergraduate degree in business from an accepted, accredited institution with an undergraduate Grade Point Average (GPA) of 3.0 or higher on a 4.0 scale for all previously completed undergraduate coursework.

OR

1. An undergraduate degree from an accepted, accredited institution with a minimum undergraduate GPA of 2.5 or higher on a 4.0 scale for all previously completed undergraduate university work, 2 letters of recommendation. The applicant may also submit additional documents such as a statement of purpose, test scores, etc.

OR

1. Have completed any required undergraduate prerequisite business course(s) (ECN250 or equivalent, ACC215 or equivalent, and/or FIN323 or equivalent) with a 3.0 or higher on a 4.0 scale in each course.

OR

1. Have a doctoral degree from an accepted, accredited institution.

Program Requirements

Plan of Study

The student and their advisor shall prepare a Plan of Study which must be approved during the semester in which the student initially enrolls. A plan should be appropriate to meet the needs of the student in their chosen field. It shall include the specific courses the student is expected to complete; and shall also list all other requirements of the program or school. Courses listed on the Plan of Study shall be those judged appropriate by the faculty. Subsequent requests for changes in the plan must be formally approved by the M.B.A. Director or the Academic Advisor. Any deviation from the final Plan of Study and/or discrepancy between it and the student's official transcript will delay graduation. Any Plan of Study that was approved may become void if a student is inactive for one year (unless on an official leave of absence).

Grade Point Average Requirement

A student must have a 3.0 overall GPA in all program coursework, with no more than two *C*'s in their 33 hours of Functional Studies courses. In addition, the student must maintain a cumulative 3.0 GPA in all courses completed after admission to the degree program, along with any previous Marshall University coursework to be counted toward the current degree. This standard must be met for the student to

graduate. If the student falls below these standards, then that student shall be placed on academic probation and will be subject to dismissal from the program.

Course Enrollment Policy

In order to take any 600-level course in the College of Business, students must be enrolled in a graduate program in the college. On an exception basis, a student not enrolled in an LCOB graduate program may take only one 600- level course with the written approval of the Academic Advisor or the MBA Director. Cooperative programs with other departments must by approved by the MBA Director. It is the responsibility of the student to obtain this approval before attempting to register. Additionally, the student must meet the specific course prerequisites. Students who violate this policy will be administratively withdrawn.

Course Requirements

All students are required to complete 33 hours of M.B.A. Functional Studies courses and any additional foundation work, as determined by the M.B.A. Director, or the COB Associate Director of Graduate Programs. The 33-hour M.B.A. courses must be completed with a GPA of 3.0 (*B* or better) with no more than 2 *C*'s.

Plan of Study

Code	Title	Credit Hours
Undergraduate Foundation Courses [1]		
ACC 215	Intro Financial Accounting(CT)	
ECN 250	Principles Microeconomics	
FIN 323	Principles of Finance	
M.B.A. Functional Studies Courses		
ACC 613	Profit Planning & Control	3
ECN 630	Managerial Economics	3
FIN 620	Financial Management	3
MGT 601	Quant Methods-Business	3
MGT 672	Organizational Behavior	3
MGT 674	Prod/Operation Management	3
MGT 692	Ethics/Global Aspects Bus	3
MIS 678	Management Infor Systems	3
MKT 682	Adv Marketing Management	3
MGT 699	Strategic Management	3
Select one elective course		3
Total Credit Hours		**33**

[1] Courses require at least a grade of B or successful completion of approved module with score of 80% or higher.

Data Analytics in Health Care, Graduate Certificate

Program Description

Data analytics is the process of acquiring, extracting, integrating, transforming, and modeling data with the goal of deriving useful information. Its application is growing rapidly in health care organizations across the globe. Data Analytics in Health Care enables the systematic use of data to drive fact-based decision-making to assist in health care planning, management and measurement. However, many organizations lack the knowledge to effectively utilize data analytics. As a result, health care big data analytics and informatics skills are among the most sought-after competencies for health information management professionals.

The Marshall University Data Analytics in Health Care certificate is designed to provide health care professionals with the skills required to compete for data analysis jobs amid rising demand in the health care industry. The certificate program will explore the intricacies of data analytics and expose students to various topics related to data processing, integration, analysis, and visualization. Individuals who complete this program will have a solid framework of data analytics methodologies accompanied by exposure to the tools used for knowledge discovery pertinent to health care.

The certificate is intended for students who are interested in transforming the massive data being produced in the health care industry into meaningful information. They are the individuals who want to determine what decisions or actions should be taken to generate value from the healthcare data produced every day.

Admission Requirements

Applicants should follow the admissions process described in the Graduate Catalog, or at the Graduate Admissions website at www.marshall.edu/graduate/admissions/how-to-apply-for-admission (http://www.marshall.edu/graduate/admissions/how-to-apply-for%C2%AD-admission/). (Submit all materials to the Graduate Admissions Office.) Students must have an undergraduate Grade Point Average (GPA) of 2.5 or higher on a 4.0 scale from their undergraduate degree-granting institution.

Course Requirements

Students must take the following courses:

Code	Title	Credit Hours
HCA 600	The Health Care System	3
MIS 678	Management Infor Systems	3
Choose any 12 credit hours from the remaining required courses in the MS Health Informatics degree program		12
Total Credit Hours		**18**

Courses in this certificate program can also be applied to a master's degree in health informatics.

Health Care Administration, M.S.

Program Description

The Master of Science in Health Care Administration is designed to provide individuals with a comprehensive perspective of the health care environment. Emphasis is placed on a global view of health care rather than a targeted sector (such as hospitals, nursing homes, etc.) of the industry. Students completing the program frequently pursue employment opportunities in environments ranging from hospitals to medical practices to health insurers/buyers. While the program attracts individuals from all undergraduate disciplines, many of the students

have strong clinical backgrounds and are interested in building their management skills with a focus toward their clinical expertise.

3+2 Program (B.B.A., With M.B.A. Or M.S. In Accountancy, HRM Or HCA)

The 3+2 Program offered by the College of Business allows students to earn both their Bachelor of Business Administration and Master of Accountancy, Business Administration, Human Resources Management, or Health Care Administration degrees in a total of five years. Students are allowed to double-count up to nine hours of graduate-level courses from the master's degree toward their bachelor's degree requirements. Please contact the College of Business Graduate Academic Advisor for the specific entrance requirements.

Admission Requirements

Full Admission

Applicants should follow the admissions process described in this catalog or at the Graduate Admissions website: www.marshall.edu/graduate/admissions/how-to-apply-for-admission (https://www.marshall.edu/graduate/admissions/how-to-apply-for-admission/).

Applicants also must submit a copy of their resume and must either have:

1. An undergraduate degree from an accepted, accredited institution with an undergraduate Grade Point Average (GPA) of 3.0 or higher on a 4.0 scale for all previously completed undergraduate coursework.
   or
2. An undergraduate degree from an accepted, accredited institution with a minimum undergraduate GPA of 2.5-2.99 on a 4.0 scale for all previously completed undergraduate university work, and, in addition to the resume, two letters of recommendation. Applicants may also submit additional documents such as statement of purpose, test scores, etc.
   or
3. A doctoral degree from an accepted, accredited institution.

Conditional Admission

Conditional Admission can be granted for one term if the applicant meets all program requirements for admission except they have not officially graduated with their bachelor's degree. Once the degree is granted, the applicant would need to resubmit his or her official transcripts for full admission.

Note: Applicants may be asked to submit additional material if needed before an admission decision is made. Generally, more students apply to the H.C.A. program than are accepted each year; therefore, the selection process is competitive.

Program Requirements

Plan of Study

The student and his/her advisor shall prepare a Plan of Study which must be approved during the semester in which the student initially enrolls. A plan should be appropriate to meet the needs of the student in his/her chosen field. It shall include the specific courses the student is expected to complete; and shall also list all other requirements of the program or school. Courses listed on the Plan of Study shall be those judged appropriate by the faculty. Subsequent requests for changes in the plan must be formally approved by the Academic Advisor. Any deviation from the final Plan of Study and/or discrepancy between it and the student's official transcript will delay graduation. Any Plan of Study that was approved may become void if a student is inactive for one year (unless on an official leave of absence).

Grade Point Average Requirement

A student must have a 3.0 overall GPA in all program coursework, with no more than two *C*'s in his or her program, In addition the student must maintain a cumulative 3.0 GPA in all courses completed after admission to the degree program, along with any previous Marshall University coursework to be counted toward the current degree. This standard must be met for the student to graduate. If the student falls below these standards, then that student shall be placed on academic probation and will be subject to dismissal from the program.

Comprehensive Assessment

Degree candidates are required to complete a comprehensive assessment prior to receipt of the master's degree. The timing and form of a student's comprehensive assessment shall be approved in advance by the Director of the Graduate School of Management. The comprehensive assessment is usually a written term paper required within the final, integrated capstone course, HCA 695 Fld Res/Health Care Mgt.

Course Enrollment Policy

In order to take any 600-level course in the College of Business, students must be enrolled in a graduate program in the college. On an exception basis, a student not enrolled in an LCOB graduate program may take only one 600- level course with the written approval of the Academic Advisor or the M.B.A. Director. Cooperative programs with other departments must by approved by the M.B.A. Director. It is the responsibility of the student to obtain this approval before attempting to register. Additionally, the student must meet the specific course prerequisites. Students who violate this policy will be administratively withdrawn.

Plan of Study

Code	Title	Credit Hours
Course Requirements		
HCA 600	The Health Care System	3
HCA 640	The Health Care Professional	3
HCA 610	Health Care Financial Mgt	3
HCA 615	Health Care Econ	3
HCA 653	Integrated Health Care Del Sys	3
HCA 630	Legal Issues/Health Care Mgt	3
HCA 656	Mgt of Medical Technology	3
HCA 658	Long Term Care	3
HCA 655	Health Care Marketing	3
HCA 695	Fld Res/Health Care Mgt	3
Two Electives approved by advisor (one must be an HCA elective)		6
Total Credit Hours		**36**

Health Informatics, M.S.

Program Mission

The mission of the Master of Science in Health Informatics (MSHI) program is to provide students with high quality education and training that will make them valuable employees in today's data- and information-driven health care enterprises.

The relevance of this mission is reflected in the fact that health informatics professionals are in great demand. According to the U.S. Bureau of Labor Statistics, 10 of the 20 fastest growing occupations in the country are concentrated in health care services, making it an ideal career field for people who are looking for a growth opportunity and enjoy helping people (https://www.bls.gov (http://www.bls.gov))

With the health care environment enjoying such growth, this has a direct impact on the demand for health informatics professionals in the United States; this area is expected to see an 18 percent increase in the number of jobs available through 2016. With the 2010 enactment of the Affordable Care Act (ACA) and the Federal Government mandate that every U.S. citizen have an electronic health record (EHR) by 2015, together with the 2009 American Recovery and Reinvestment Act (ARRA) via the associated Health Information Technology Economic and Clinical Health (HITECH) Act, and the requirement by the federal government that each state develop a Health Information Exchange in order to become part of a vast electronic national health information infrastructure, the health informatics job growth rate will undoubtedly only continue to increase.

Accreditation

The Master of Science in Health Informatics is accredited by the Commission on Accreditation for Health Informatics and Information Management Education (CAHIIM) Currently, it is one of first three nationally accredited programs in the United States. It is also the only accredited, graduate-level program in health informatics in the state of West Virginia.

Program Description

Health Informatics is a cutting-edge, multidisciplinary profession that utilizes information technologies, informatics and information systems and integrates them into the health care arena; it is the science that defines how health information is technically captured, transmitted and utilized, consisting of 3 core areas:

- **Information Systems** – focuses on such issues as information systems analysis, design, implementation, management and leadership;
- **Informatics** – focuses on the study of structure, function and transfer of information, socio-technical aspects of health computing, and human-computer interaction;
- **Information Technology** – focuses on computer networks, database and systems administration, security and programming

The combination of skills and knowledge acquired through coursework in these three areas, together with student internships in the health informatics field at the academic, government or industry levels, provides students with the high quality multidisciplinary education and real-world training that will result in valuable employees who are well prepared for the multifaceted demands and complexities in today's data- and information-driven health care enterprises.

The program requires at least 4 semesters of coursework, including an educationally directed practicum (Health Informatics Internship) experience. The total number of credits includes at least 39 post-baccalaureate hours of study. Because this graduate degree focuses both on didactic and clinical applications, the program is a combination of classroom and clinical application credits. Graduate-level credits will be provided for the supervised practicum.

For more information regarding the Master of Science in Health Informatics program at Marshall University, please visit the health informatics website at https://www.marshall.edu/cob/graduate/health-informatics/.

Admission Requirements

Applicants should follow the admissions process described in the Graduate Catalog, or at the Graduate Admissions website at www.marshall.edu/graduate/admissions/how-to-apply-for-admission (http://www.marshall.edu/graduate/admissions/how-to-apply-for-admission/). (Submit all materials to the Graduate Admissions Office.) Students must have an undergraduate Grade Point Average (GPA) of 2.5 or higher on a 4.0 scale from their undergraduate degree granting institution.

Provisional Admission

The Health Informatics program may admit applicants provisionally on a limited basis at the discretion of the program director. Example: If a student does not meet the GPA admission requirement, but believes he or she had the necessary qualifications to succeed in the Health Informatics program, he or she may still be accepted at the discretion of the program director.

Health Informatics Practicum

MSHI students will be required to complete the Health Informatics Practicum (HIN 650 Health Informatics Practicum), which includes successfully completing at least 400 hours in an educationally directed Health Informatics internship at one of several Health Informatics job sites which have been approved by the MSHI program director. The student internships consist of job placements within the Health Informatics field at academic, government or healthcare industry levels.

Besides successful completion of the required health informatics courses at MU, graduation from the MSHI program will be contingent upon successfully completing the HP 650 Health Infor Practicum. For more details about the practicum, see the MSHI Practicum Web page.

Plan of Study

Code	Title	Credit Hours
HCA 600	The Health Care System	3
HIN 605	The Role of EHR and PHR	3
HIN 610	Intro to Health Informatics	3
HIN 620	Legal Health & Informat	3
HIN 650	Health Informatics Practicum	3
HCA 656	Mgt of Medical Technology	3
HIN 664	Advanced Health Informatics	3
MIS 623	Database Management	3
MIS 624	Data Warehousing	3
STA 518	Biostatistics	3

Select one of the following:		3
EM 660	Project Management	
MIS 670	Business Sys Proj Mgt	
Total Credit Hours		**33**

Human Resource Management, M.S.

Program Description

The Master of Science in Human Resource Management degree program prepares graduates for research and administrative positions in human resource management. Graduates will be qualified for careers in both the public and private sector. Potential employers would include: small, mid-size, and large private sector organizations; labor unions; other employee associations; local, state, and federal government; and agencies concerned with employer-employee relations. Content areas include: human resource management; trade unionism and collective bargaining; the recruitment and selection process; employee training and development; and legal and public policy issues, which may relate to any of the preceding. Content is examined through the varied paradigms of societal, legal, organizational, economic, and political considerations. The study of human resource management is grounded in the knowledge and methods developed in a number of traditional areas of study. The major disciplines represented in the program are psychology, sociology, management, and law.

3+2 Program (B.B.A., With M.B.A. Or M.S. In Accountancy, HRM Or HCA)

The 3+2 Program offered by the College of Business allows students to earn both their Bachelor of Business Administration and Master of Accountancy, Business Administration, Human Resources Management, or Health Care Administration degrees in a total of five years. Students are allowed to double-count up to nine hours of graduate-level courses from the master's degree toward their bachelor's degree requirements. Please contact the College of Business Graduate Academic Advisor for the specific entrance requirements.

Admission Requirements

Full Admission

Applicants should follow the admissions process described in this catalog or at the Graduate Admissions website: www.marshall.edu/graduate/admissions/how-to-apply-for-admission (https://www.marshall.edu/graduate/admissions/how-to-apply-for-admission/).

Applicants also must submit a copy of their resume and must either have:

1. An undergraduate degree from an accepted, accredited institution with an undergraduate Grade Point Average (GPA) of 3.0 or higher on a 4.0 scale for all previously completed undergraduate coursework.
   or
2. An undergraduate degree from an accepted, accredited institution with a minimum undergraduate GPA of 2.5-2.99 on a 4.0 scale for all previously completed undergraduate university work, and, in addition to the resume, two letters of recommendation. Applicant may also submit additional documents such as statement of purpose, test scores, etc.
   or
3. Have successfully completed the Management Foundations Certificate program with a 3.0 or higher
   or
4. Have a doctoral degree from an accepted, accredited institution; and completed all of the required Business Foundation courses or their equivalents within seven years of application.

Conditional Admission

Conditional Admission can be granted for one term if the applicant meets all program requirements for Admission except they have not officially graduated with their bachelor degree. Once the degree is granted the applicant would need to resubmit their official transcripts for full admission.

Note: Applicants may be asked to submit additional material if needed before an admission decision is made. Generally, more students apply to the HRM program than are accepted each year; therefore, the selection process is competitive.

Program Requirements

Plan of Study

The student and his/her advisor shall prepare a Plan of Study which must be approved during the semester in which the student initially enrolls. A plan should be appropriate to meet the needs of the student in his/her chosen field. It shall include the specific courses the student is expected to complete; and shall also list all other requirements of the program or school. Courses listed on the Plan of Study shall be those judged appropriate by the faculty. Subsequent requests for changes in the plan must be formally approved by the Academic Advisor. Any deviation from the final Plan of Study and/or discrepancy between it and the student's official transcript will delay graduation. Any Plan of Study that was approved may become void if a student is inactive for one year (unless on an official leave of absence).

Grade Point Average Requirement

A student must have a 3.0 overall GPA in all program coursework, with no more than two *C*'s in his or her program. In addition the student must maintain a cumulative 3.0 GPA in all courses completed after admission to the degree program, along with any previous Marshall University coursework to be counted toward the current degree. This standard must be met for the student to graduate. If the student falls below these standards, then that student shall be placed on academic probation and will be subject to dismissal from the program.

Comprehensive Assessment

Degree candidates are required to complete a comprehensive assessment prior to receipt of the master's degree. The timing and form of a student's comprehensive assessment shall be approved in advance by the Director of the Graduate School of Management. The comprehensive assessment is usually a written term paper required within the final, integrated capstone course, MGT 696 Admin Policy & Strategy.

Course Enrollment Policy

In order to take any 600-level course in the College of Business, students must be enrolled in a graduate program in the college. On an

exception basis, a student not enrolled in an LCOB graduate program may take only one 600-level course with the written approval of the Academic Advisor or the MBA Director. Cooperative programs with other departments must be approved by the MBA Director. It is the responsibility of the student to obtain this approval before attempting to register. Additionally, the student must meet the specific course prerequisites. Students who violate this policy will be administratively withdrawn.

Plan of Study

Code	Title	Credit Hours
Foundation Courses		
Required as determined by the Academic Advisor		0-3
M.S.H.R.M Core Courses		
HRM 600	Development of Labor Relations	3
HRM 610	Collective Bargaining	3
MGT 620	Human Resource Management	3
HRM 630	Labor Law	3
HRM 660	Adm of Compen/Fringe Benefits	3
HRM 670	Personnel Select & Trng	3
HRM 675	Human Resource Devel & Trng	3
MGT 672	Organizational Behavior	3
MGT 696	Admin Policy & Strategy	3
Electives		
Select three hours of electives		3
Total Credit Hours		**30-33**

Information Systems, Accelerated Graduate Degree

Undergraduates in the College of Business that are accepted to an Accelerated Graduate Degree (AGD) program in the M.S. in Information Systems can begin taking graduate level classes while still in their undergraduate program. These graduate credits can be used for both the undergraduate and graduate level coursework and will help facilitate an easy and fast transition into a graduate program if a student is accepted. To be accepted into the AGD, please see your advisor to see if you qualify for one of these positions.

Undergraduates accepted into an AGD program can begin taking graduate coursework during their junior or senior year. Programs offering an AGD option may allow up to 12 hours of graduate level coursework to also count towards an undergraduate degree.

Graduate coursework/credit will appear only on the graduate transcript, and graduate course grades will be calculated towards the graduate GPA.

Eligibility Requirements for AGD Program

- Must have completed at least 60 hours toward the Bachelor's degree;
- Must have at least a 3.30 overall undergraduate GPA;
- Must have at least a 3.30 GPA in the major;
- Must meet the admission requirements of the chosen graduate degree program, apart from the receipt of a bachelor's degree. Students must earn a bachelor's degree to be fully admitted into the graduate degree program.

AGD programs may have admission requirements that differ from the admission requirements for the regular graduate degree. For example, some departments might waive the required admission test, such as the GRE or GMAT. Students should check with the chosen graduate degree program.

How to Apply

1. During the junior or senior year, eligible students should meet with their Undergraduate Advisor and the Director of Graduate Studies of their chosen graduate degree program to develop an AGD plan of study. Any changes to the AGD plan of study must be approved by the undergraduate advisor and director of graduate studies in writing to the dean of the college housing the graduate program.
2. The student's acceptance into the AGD program is subject to the approval of the plan of study by the dean of the college housing the graduate program.
3. Students accepted into the AGD program should apply for admission to the chosen graduate degree program for the first semester after the bachelor's degree is awarded. Admission applications should be submitted during the last semester of the senior year.

Students must maintain a minimum GPA of 3.0 for all graduate credit toward their graduate degree program.

Withdrawal from the AGD

A student may withdraw at any time from the AGD by informing in writing the undergraduate advisor, the director of graduate studies and the dean of the college housing the graduate program. The student's status will then revert to the standard undergraduate degree program. Any graduate hours earned must be approved for use in fulfillment of bachelor's degree requirements by the student's undergraduate dean.

From Undergraduate to Graduate Student

Beginning with the semester after the student has earned the bachelor's degree and has been accepted into a graduate degree program, the student is enrolled in the graduate program and is assessed tuition and fees at the graduate rate. All rules regarding graduate education will apply to the student once admitted into the graduate degree program.

Courses

Up to 12 credit hours can count for free electives for any B.B.A. student, or B.A. in General Business student. Students may substitute MIS 605 Systems Analysis and Design for MIS 310 Bus Sys Analysis & Design, MIS 623 Database Management for MIS 340 Intro to Database Mgt Systems, and EM 660 Project Management or MIS 670 Business Sys Proj Mgt for MIS 470 Business Sys Proj Mgt once accepted into the AGD program.

Information Systems, M.S.

Program Description

The Master of Science in Information Systems program addresses the effective analysis, design, creation, management and evaluation of

information systems for individuals and organizations. The role of the Information Systems professional is to understand and improve the ways organizations derive value from information. The Lewis College of Business Information Systems graduate degree program offers an immersive educational experience blending business, information technology and the human element. An MS in IS degree provides graduates with the knowledge and skills to:

- Use information technology to improve organizational effectiveness
- Manage complex business and information system challenges
- Apply design thinking, critical thinking, problem solving, and information technology skills to assist organizations meet current needs, changing demands and future growth.

Admission Requirements

A four-year bachelor's degree with a GPA of 2.75 or higher out of 4.0 is required. Students must also have taken a programming language class with a C or better, or complete one during their first semester of coursework with a C or better.

Applicants should follow the admissions process described in the Graduate Catalog or on the Graduate Admissions website at http://www.marshall.edu/graduate/admissions/how-to-apply-for-admission (http://www.marshall.edu/graduate/admissions/how-to-apply-for-admission/). If you are from outside the U.S., you may find Marshall's International Student Services website a useful resource (www.marshall.edu/i (https://www.marshall.edu/cip/)ss (http://www.marshall.edu/iss/)).

Program Requirements

Students must complete 36 graduate credit hours, including at least 24 credit hours at Marshall University.

Plan of Study
Plan Of Study

Code	Title	Credit Hours
Required Courses		
MIS 605	Systems Analysis and Design	3
MIS 610	Systems Quality Assurance	3
MGT 615	Mgmt of Innovation & Tech	3
MIS 620	Technology Planning	3
MIS 623	Database Management	3
MIS 647	IT Disaster Plan and Recovery	3
MIS 659	Digital Access Pol & Strats	3
MIS 670	Business Sys Proj Mgt	3
or EM 660	Project Management	
MGT 672	Organizational Behavior	3
MIS 678	Management Infor Systems	3
MIS 685	Bus Intel/Analytics	3
Select one of the following:		3
MIS 681	Thesis	
MIS 698	ITM Internship	
MIS 699	ITM Capstone Project	
Total Credit Hours		**36**

Lab Management, Graduate Certificate

The Lab Management Graduate Certificate Program is for lab professionals, especially forensic lab managers, who want to have increased training in management topics. The need for lab management training and education has been an on-going concern. This program, with its courses in accounting, organizational behavior, marketing, supply chain, and legal/regulatory issues, provides the necessary skills and background to manage a successful lab. The experiential projects incorporates a research project on a copial expenditure purchase or a process improvement important to forensic labs.

Students must have a bachelor's degree in Forensic Science, Biology, Chemistry, or other related degree.

Applicants should follow the admissions process described in the Graduate Catalog, or at the Graduate Admissions website at www.marshall.edu/graduate/admissions/how-to-apply-for--admission (http://www.marshall.edu/graduate/admissions/how-to-apply-for%C2%AD-admission/). (Submit all materials to the Graduate Admissions Office.)

Code	Title	Credit Hours
ACC 613	Profit Planning & Control	3
FSC 646	Lab Management	2
FSC 660	Independent Study	2
MGT 672	Organizational Behavior	3
MGT 674	Prod/Operation Management	3
MKT 682	Adv Marketing Management	3
Total Credit Hours		**16**

Nurse Anesthesia Practice, D.N.A.P.

Admissions to this program are currently suspended.

Sport Administration, Accelerated Graduate Degree

Sport Administration, Accelerated Graduate Degree

Undergraduates accepted to an Accelerated Graduate Degree (AGD) program can begin taking graduate level classes while still in their undergraduate program. These graduate credits can be used for both the undergraduate and graduate level coursework and will help facilitate an easy and fast transition into a graduate program if a student is accepted. To be accepted into the AGD, please see your advisor to see if you qualify for one of these positions.

Undergraduates accepted into an AGD program can begin taking graduate coursework during their junior or senior year. Programs

offering an AGD option may allow up to 12 hours of graduate level coursework to also count towards an undergraduate degree.

Graduate coursework/credit will appear only on the graduate transcript, and graduate course grades will be calculated towards the graduate GPA.

Eligibility Requirements for AGD Program

- Must have completed at least 60 hours toward the Bachelor's degree;
- Must have at least a 3.30 overall undergraduate GPA;
- Must have at least a 3.30 GPA in the major;
- Must meet the admission requirements of the chosen graduate degree program, apart from the receipt of a bachelor's degree. Students must earn a bachelor's degree to be fully admitted into the graduate degree program.

AGD programs may have admission requirements that differ from the admission requirements for the regular graduate degree. For example, some departments might waive the required admission test, such as the GRE or GMAT. Students should check with the chosen graduate degree program.

How to Apply

1. During the junior or senior year, eligible students should meet with their Undergraduate Advisor and the Director of Graduate Studies of their chosen graduate degree program to develop an AGD plan of study. Any changes to the AGD plan of study must be approved by the undergraduate advisor and director of graduate studies in writing to the dean of the college housing the graduate program.
2. The student's acceptance into the AGD program is subject to the approval of the plan of study by the dean of the college housing the graduate program.
3. Students accepted into the AGD program should apply for admission to the chosen graduate degree program for the first semester after the bachelor's degree is awarded. Admission applications should be submitted during the last semester of the senior year.

Students must maintain a minimum GPA of 3.0 for all graduate credit toward their graduate degree program.

Withdrawal from the AGD

A student may withdraw at any time from the AGD by informing in writing the undergraduate advisor, the director of graduate studies and the dean of the college housing the graduate program. The student's status will then revert to the standard undergraduate degree program. Any graduate hours earned must be approved for use in fulfillment of bachelor's degree requirements by the student's undergraduate dean.

From Undergraduate to Graduate Student

Beginning with the semester after the student has earned the bachelor's degree and has been accepted into a graduate degree program, the student is enrolled in the graduate program and is assessed tuition and fees at the graduate rate. All rules regarding graduate education will apply to the student once admitted into the graduate degree program.

Students enrolled in the Accelerated Graduate Degree (AGD) in the M.S. in Sport Administration program can substitute up to a maximum of twelve hours of graduate courses which can count for any B.B.A. Student or B.A. in General Business student.

Students in the AGD will enroll in twelve hours from 500 and 600 level STHM graduate courses during their senior year. Specifically, the 12 hours courses for the senior year can be selected from, but are not limited to, courses such as:

Code	Title	Credit Hours
STHM 511	Ethics in Sports	3
STHM 516	Facility Design & Management	3
STHM 601	Sports Analytics	3
STHM 596	Olympic Games	3
STHM 615	Legal Concerns in Sport Admin	3
STHM 624	Current Issues in Sport Admin	3
STHM 671	Sport Admin Research Methods	3
STHM 674	Sport Finance and Business	3
STHM 675	MKT MGT of Sport Industry	3

Sport Administration, M.S.

Program Description

The mission of the Master of Science in Sport Administration program at the Lewis College of Business (LCOB) is to educate students to become reflective, principled, knowledgeable, and creative learners who will succeed in the global sports management community in the 21st century. Sports are a significant provider of high-dollar entertainment, making the industry business oriented. Due to the economic magnitude of the sports industry, the demand for higher educated sports managers is at an all-time high. According to the Occupational Outlook Handbook, employment in entertainment and sports occupations is projected to grow 13 percent from 2021 to 2031, much faster than the average for all occupations. This master's degree program will provide the diverse knowledge and skill set needed in all areas that will optimize your chance for future employment in the sports business field.

Admission Requirements

Applicants should follow the admissions process described in this catalog or at the Graduate Admissions website at www.marshall.edu/graduate/admissions/how-to-apply-for-admission (http://www.marshall.edu/graduate/admissions/how-to-apply-for-admission/).

Full Admission

(Submit all materials directly to the Graduate Admissions office):

1. An undergraduate degree from an accredited institution with an undergraduate Grade Point Average (GPA) of 3.0 or higher on a 4.0 scale for all previously completed undergraduate coursework;
   or
2. An undergraduate degree from a regionally accredited institution with a minimum undergraduate GPA. of 2.5-2.99 on a 4.0 scale for all previously completed undergraduate university work and, in addition to the resume, two letters of recommendation. Applicants may also submit additional documents such as the statement of purpose, test scores, etc.

A limited number of students may be admitted provisionally or conditionally (see definition of Provisional Enrollment and Conditional Enrollment in this catalog):

Note: Applicants may be asked to submit additional material if needed before an admission decision is made. Acceptance into the M.S. Sport Administration program is competitive and not guaranteed.

Program Requirements

Students are required to complete 30 credit hours and successfully pass a comprehensive assessment or thesis defense. The student and his/her advisor shall prepare a Plan of Study, which must be approved during the semester in which the student initially enrolls. A plan should be appropriate to meet the student's needs in his/her chosen field. It shall include the specific courses the student is expected to complete; and list all other requirements of the program or school. Courses listed on the Plan of Study shall be those judged appropriate by the faculty. Subsequent requests for changes in the plan must be formally approved by the Academic Advisor. Any deviation from the final Plan of Study and/or discrepancy between it and the student's official transcript will delay graduation. Any approved Plan of Study may become void if a student is inactive for one year (unless on an official leave of absence).

Grade Point Average Requirement

A student must have a 3.0 overall G.P.A. in all program coursework, with no more than two Cs in his or her program; in addition, the student must maintain a cumulative 3.0 GPA in all courses completed after admission to the degree program, along with any previous Marshall University coursework to be counted toward the current degree. This standard must be met for the student to graduate. If the student falls below these standards, that student shall be placed on academic probation and be subject to the program's dismissal.

Thesis or Comprehensive Assessment

The thesis project is an academic collaboration between the student and the Thesis Committee.

The graduate program director or the student's graduate advisor selects the chair and other members of the Thesis Committee. All thesis committees must have at least a chair and two qualified faculty members. The committee chair must have at least "Graduate" level membership in the Marshall University graduate faculty. Other than the chair, all other thesis committee voting members must have at least "Associate" level membership in the Marshall University graduate faculty. A majority of the student's Thesis Committee voting members must have appointments within the college of the student's major.

The student can receive up to 6 credit hours on the thesis project toward his or her 30-credit hour degree requirement. The thesis project and oral defense of the student's thesis project must occur prior to the completion of the student's final semester in the program. The thesis project needs to reflect an effort that is at least equivalent to the 6 credit hours and is to be completed over 2 or more semesters.

As an alternative to a thesis project, a student can choose to complete a comprehensive assessment prior to receipt of the master's degree. The comprehensie assessment is usually a written term paper required within the capstone course STHM 696 Seminar in Sport Admin.

Plan of Study

Non-Thesis Option

Code	Title	Credit Hours
Core		
STHM 552	(OR equivalent)	3
STHM 615	Legal Concerns in Sport Admin	3
STHM 624	Current Issues in Sport Admin	3
STHM 671	Sport Admin Research Methods	3
STHM 674	Sport Finance and Business	3
STHM 675	MKT MGT of Sport Industry	3
Capstone		
STHM 696	Seminar in Sport Admin	3
Electives		
STHM Electives or selected courses with approval		9
Total Credit Hours		**30**

Thesis Option

Code	Title	Credit Hours
Core Courses		
STHM 552		3
STHM 615	Legal Concerns in Sport Admin	3
STHM 624	Current Issues in Sport Admin	3
STHM 671	Sport Admin Research Methods	3
STHM 674	Sport Finance and Business	3
STHM 675	MKT MGT of Sport Industry	3
Thesis		
STHM 681	Thesis	6
Electives		
Electives or selected courses with approval		6
Total Credit Hours		**30**

Technology Management, Graduate Certificate

Program Description

The Graduate Certificate in Technology Management is designed primarily for working professionals with both technical and non-technical backgrounds who want a better understanding of technological relevance to competitiveness and business strategy. Certificate coursework has a practical emphasis, with real-world projects designed to develop skills that can be put to use on the job immediately. Courses taken for this certificate may be applied to the M.S. in Information Systems degree (contact the program coordinator for information).

Admission Requirements

Applicants interested in the certificate program should apply for admission to Marshall University as a Certificate/Professional Development student and indicate the Certificate in Technology Management on the application. The admission requirements for

the certificate program are the same as for the M.S. in Information Systems degree (p. 101).

Course Requirements

Code	Title	Credit Hours
MIS 615	Info Tech Strategies	3
MIS 620	Technology Planning	3
Any four required courses from the M.S. in Information Systems program, for twelve hours total		12
Total Credit Hours		**18**

College of Education and Professional Development

Contacts: Dr. Kelly Bradley, Dean
Website: https://www.marshall.edu/coepd (https://www.marshall.edu/coepd/)

coepd@marshall.edu

Programs

- Adult and Continuing Education, M.S. (p. 133)
- Applied Behavior Analysis, M.A. (p. 135)
- Counseling, Accelerated Graduate Degree (p. 136)
- Counseling, M.A. (p. 136)
- Counseling, R.B.A. Accelerated Graduate Degree (p. 140)
- Curriculum and Instruction, Ed.D. (p. 141)
- Early Childhood Education, Graduate Certificate (p. 143)
- Education, M.A. (p. 144)
- Educational Leadership, Post Masters Certificate (p. 148)
- Educational Specialist, Ed.S. (p. 148)
- Elementary Mathematics Specialist, Graduate Certificate (p. 149)
- Instructional Technology and Learning, Graduate Certificate (p. 149)
- Leadership Studies, Ed.D. (p. 149)
- Leadership Studies, M.A. (p. 151)
- Literacy Education, Graduate Certificate (p. 153)
- Literacy Education, M.A. (p. 153)
- Mathematics through Algebra I, Graduate Certificate (p. 154)
- Post-Baccalaureate Teacher Certificate (p. 154)
- School Library Media Specialist, Graduate Certificate (p. 155)
- School Psychology, Ed.S. (p. 156)
- School Superintendent, Licensure (p. 157)
- Social Service and Attendance, Certificate/Licensure (p. 157)
- Special Education, M.A. (p. 157)
- Supervisor of Instruction, Licensure (p. 159)
- Teaching English as a Second Language (Non-Licensure), Graduate Certificate (p. 160)
- Teaching, M.A.T. (p. 160)
- Violence, Loss and Trauma Counseling, Graduate Certificate (p. 161)

Courses

Adult & Continuing Education

ACE 503 Intro to Adult Learning Theory **3 Credit hours**
Designed to acquaint the student with the field of adult education and its underpinnings and the various adult learning theories and/or approaches.
Grade Mode: Normal Grading Mode

ACE 505 Inst Methods in Tech Training **3 Credit hours**
Unit and lesson planning; cooperative education as a method of instruction, project plan of instruction, classroom management and control, demonstration techniques, evaluation methods, field experience in Marketing Education classroom.
Grade Mode: Normal Grading Mode

ACE 508 Teach Methods Career Tech Educ **3 Credit hours**
Correlating Lab instruction with classroom instruction; individual and group instruction sheets and materials; the four teaching steps in career and technical education; and physical factors relating to classroom and lab.
Grade Mode: Normal Grading Mode

ACE 510 Developing Selling Curriculum **3 Credit hours**
Conduct library research, review selling content, select content objectives, identify content appropriate for the target group, prepare teaching outlines, and design evaluation instruments.
Grade Mode: Normal Grading Mode

ACE 511 Intro to Career and Tech Educ **3 Credit hours**
Designed as a follow-up to Teaching Methods in Career and Technical Education and intetnded to provide the new teacher guidance and supervision in developing teacher competence.
Attributes: Onsite Learning Experience
Grade Mode: Normal Grading Mode

ACE 512 Crs Constr Plan Career Tech Ed **3 Credit hours**
Analysis procedures for determining career and technical curriculum content; determination of program goals and objectives; involvement of advisory committees; factors, principles, and techniques of developing a course of study.
Grade Mode: Normal Grading Mode

ACE 513 Org Manage Sch Shops & Labs **3 Credit hours**
Responsibilities as a manager; methods of handling tools, equipment and supplies; project instructional resourse needs and reporting; improvement of facilities, filing system, and career and technical laboratory.
Grade Mode: Normal Grading Mode

ACE 520 Principles Cooperative Ed **3 Credit hours**
Principles for planning, implementing, and evaluating the cooperative design within the various service areas of technical education; analysis of factors which must be considered in selection of the cooperative design.
Grade Mode: Normal Grading Mode

ACE 521 Occupational Analysis **3 Credit hours**
Assist the instructor in analyzing an occupation; goals and objectives to form a basis for curriculum; classifying and describing occupations; analysis procedures; course content, and technical skills and knowledge.
Grade Mode: Normal Grading Mode

ACE 522 Admin of Cooperative Programs **3 Credit hours**
Administering cooperative education programs, recruiting, and selecting students; selecting training agencies and placing students; conducting public relations activities for the program; and advising the student organization.
Grade Mode: Normal Grading Mode

ACE 524 Safety in Career Technical Ed **3 Credit hours**
Responsibilities of the teacher in providing a safe learning working environment: Effective approaches to accident prevention: Laws and regulatory agencies regarding safety management in the classroom and laboratory.
Grade Mode: Normal Grading Mode

ACE 525 Computer Appl Bus & Mkt **3 Credit hours**
Study of computer applications and software for Business and Marketing Education.
Grade Mode: Normal Grading Mode

ACE 535 Methods of Exam Career Tech Ed **3 Credit hours**
Develop written and performance evaluation instruments: develop and use progress charts; determine appropriate grading procedures. Develop rating scales, objectives tests, classroom tests, manipulative tests, introduction to statistics.
Grade Mode: Normal Grading Mode

ACE 536 Coord Coop Career Tech Ed **3 Credit hours**
Background of Coordination; methods and techniques for evaluating and selecting work stations, student selection, placement and follow-up; role of advisory committees; method of evaluating cooperative work experience.
Grade Mode: Normal Grading Mode

ACE 540 Dev Merch/Sales Prom Curr **3 Credit hours**
Conduct library research, review merchandising and sales promotion content, objectives, identify content appropriate for the target group, prepare teaching outlines, and design evaluation instruments.
Grade Mode: Normal Grading Mode

ACE 542 Prin Prevoc Exploration **3 Credit hours**
Study of the prevocational exploration delivery system and develop instructional units which include goals, objectives, and criteria for evaluation of students.
Grade Mode: Normal Grading Mode

ACE 547 Computer Appl Career Tech Ed **3 Credit hours**
Designed to introduce modern instructional technology in today's classrooms and labs; introduction to disk operating systems, application software for instruction and instructional management, student evaluation, record keeping, and work processing.
Grade Mode: Normal Grading Mode

ACE 548 Appl Basic Skills Career Tech **3 Credit hours**
Methods, techniques, and strategies for incorporating basic skills in career and technical instruction; emphasis on reading, writing, math, oral communication, and critical thinking skills; job seeking and job keeping skills.
Grade Mode: Normal Grading Mode

ACE 549 Occup Analysis Instruct Design **3 Credit hours**
Analyzing an occupation to identify knowledge and skill; use of the analysis to develop problem solving objectives and instructional plans; emphasis on approach to facilitate student achievement of objectives.
Grade Mode: Normal Grading Mode

ACE 550 Interper Skills in Workplace **3 Credit hours**
Course is designed to provide opportunities to learn in preparation for career success with supervisors, co-workers, clients, and customers. Human relations skills are examined and related to business success.
Grade Mode: Normal Grading Mode

ACE 552 Hist & Phil of Career Tech Ed **3 Credit hours**
Historical influences in the development of workforce education in America and Europe; motivating influences and the implications of philosophy in modern career and technical education.
Grade Mode: Normal Grading Mode

ACE 559 Coord Career Tech Youth Activ **3 Credit hours**
Organize and develop a co-curricular student organization; defining the purpose of the organization; plan appication and integration into the career and technical program; competencies in leadership and team building.
Grade Mode: Normal Grading Mode

ACE 565 Career Exploration & Develop **3 Credit hours**
Exploring principles and techniques for career planning and job search. An overview of strategies for gaining a competitive edge in the labor market and experiencing a successful career beginning.
Grade Mode: Normal Grading Mode

ACE 569 Bus & Occupation Teach Methods **3 Credit hours**
Survey of materials and methods for developing competencies in teaching business education and/or occupational training programs.
Grade Mode: Normal Grading Mode

ACE 570 Practicum Adult & Tech Ed **1-4 Credit hours**
Individually designed field experience under supervision of the faculty; such experience related to the student's future professional role. (GRADING: CR/NC)
Grade Mode: Normal Grading Mode

ACE 580 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ACE 581 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ACE 582 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ACE 583 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ACE 584 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ACE 585 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ACE 586 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ACE 587 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ACE 588 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ACE 591 Workshop **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ACE 592 Workshop **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ACE 593 Workshop **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ACE 594 Workshop **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ACE 595 Hist Dev in Workforce Prep **3 Credit hours**
An overview of the historical evolution of technical education legislation; analysis of Technical Education Acts as they relate to state and local planning of technical education programs.
Grade Mode: Normal Grading Mode

ACE 600 Aspects of Train and Dev **3 Credit hours**
Overview of the training and development profession and theories that support the profession; emphasis on the variety of solutions used by HRD professionals to help improve individual and organizational performance.
Grade Mode: Normal Grading Mode

ACE 601 Philosophy Workforce Prep **3 Credit hours**
Overview of the historical origins of technical education and their relationship to educational philosophies; foundations of areas of technical education; analysis of questions fundamental to a philosophy of technical education.
Grade Mode: Normal Grading Mode

ACE 603 Intro to Adult Ed & Learners **3 Credit hours**
Designing to acquaint the student with the field of adult and continuing education, its foundations and development in this country and future trends
Grade Mode: Normal Grading Mode

ACE 605 Foundations Bus & Mkt Ed **3 Credit hours**
Application of philosophy and principles of business and marketing education to the objectives, curriculum, guidance, and teacher preparation, emphasizing the techniques for coordination of federally aided programs.
Grade Mode: Normal Grading Mode

ACE 609 Develop Training Plans for B/I **3 Credit hours**
Analysis of factors in developing local plans for business and industry; emphasis on implications of federal guidelines; factors which impinge upon programs during implementation; developing evaluation procedures.
Grade Mode: Normal Grading Mode

ACE 610 Current Issues Bus & Mkt Ed **3 Credit hours**
Individual and group analysis of current issues in business and marketing; identification of issues significant to the direction of sound business and marketing education programs.
Grade Mode: Normal Grading Mode

ACE 614 ACE & Econ Dev **3 Credit hours**
Study of the sources of data on employment needs; relationship to planning techniques for conducting a community survey; organizing data for analysis and applying the findings to the planning process.
Grade Mode: Normal Grading Mode

ACE 615 Student Career Organizations **3 Credit hours**
A study of various facets of existing state/national student organizations. Special emphasis is placed upon the organizations of student career organizations and parliamentary procedures. (PR: ACE 542 or equivalent)
Grade Mode: Normal Grading Mode

ACE 616 Community Relations in ACE **3 Credit hours**
Study of community organizations and the relationship of adult and continuing education; consideration of models for analyzing employment opportunities and occupational training needs and the process in securing community commitment.
Grade Mode: Normal Grading Mode

ACE 618 Literature Adult Contin Educ **3 Credit hours**
A program of readings and reports on specific areas in adult education or particular problems within an area of adult and continuing education. Readings to be selected cooperatively with advisor.
Grade Mode: Normal Grading Mode

ACE 628 Adult Inst Envir & Pers Aspect **3 Credit hours**
The course examines both environmental and personal factors which may impact on the adult learning process and is designed to foster awareness, which will be translated into appropriate intervention strategies.
Grade Mode: Normal Grading Mode

ACE 631 Survey Prac Computer Appl **3 Credit hours**
An introductory course for persons who want to become familiar with the application of computers in the business/industrial fields represented by adult and technical education.
Grade Mode: Normal Grading Mode

ACE 635 Spec Pract Comp App Bus & Ind **3 Credit hours**
An advanced course for persons who want to further their knowledge of the application of computers in the business and industrial fields, which are represented by adult and continuing education.
Grade Mode: Normal Grading Mode

ACE 637 Indiv Computer Prog App **3 Credit hours**
Individually designed learning activities that involve the application of previously learned theories, processes, operations, techniques, or systems. The applications are studied, analyzed, and evaluated. (PR: ATE 631, Equivalent or appropriate experience, CR/NC Grading).
Pre-req: ACE 631 or ATE 631.
Grade Mode: Normal Grading Mode

ACE 643 Teaching EFL Abroad **3 Credit hours**
Designed to explore the educational history of teaching a foreign language in different countries.
Grade Mode: Normal Grading Mode

ACE 650 Career Educ Curriculum Dev **3 Credit hours**
Instructional unit is developed to assist children and youth to achieve academic, general, or technical education and also career education goals; includes goals, objectives, procedures, student activities, resources, and evaluation.
Attributes: Onsite Learning Experience
Grade Mode: Normal Grading Mode

ACE 651 Developing Marketing Curr **3 Credit hours**
Conduct library research, review marketing content, select content objectives, identify content appropriate for the target group, prepare teaching outlines, and design evaluation instruments.
Grade Mode: Normal Grading Mode

ACE 652 Field Based Job Analysis **3 Credit hours**
Field study of job analysis, curriculum, course and program design.
Grade Mode: Normal Grading Mode

ACE 653 Develop Management Curr **3 Credit hours**
Conduct library research, review management content, select content objectives, identify content appropriate for the target group, prepare teaching outlines, and design evaluation instruments.
Grade Mode: Normal Grading Mode

ACE 655 Developing Human Resources Cur **3 Credit hours**
Conduct library research, review personnel content, select content objectives, identify content appropriate for the target group, prepare teaching outlines, and design evaluation instruments.
Grade Mode: Normal Grading Mode

ACE 656 Instr Planning for Adults **3 Credit hours**
An examination and application of the process involved in the development, operation, and evaluation of adult programs in the community, business, and industry.
Grade Mode: Normal Grading Mode

ACE 659 EFL Methods **3 Credit hours**
Designed to provide students with the latest methodologies associated with teaching English as a Foreign Language (EFL) to the adult learner. (PR: ACE 643)
Grade Mode: Normal Grading Mode

ACE 661 Practicum ACE **3 Credit hours**
Individually designed to provide field experience under the supervision of the faculty, such experience to be related to the student's project role in adult and continuing education.
Grade Mode: Normal Grading Mode

ACE 662 App Field Exp Prevoc Explor **3 Credit hours**
Students are assisted in making revisions in instructional units, organizing an advisory committee, and organizing Career Exploration Club as an integral part of the classroom function. (PR ACE 542)
Grade Mode: Normal Grading Mode

ACE 663 Practicum EFL **3 Credit hours**
Designed to engage the student in hands-on teaching in a classroom setting. (PR ACE 659)
Grade Mode: Normal Grading Mode

ACE 664 Technical Ed Practicum **3 Credit hours**
Individually designed to provide field experience under the supervision of the faculty, such experience to be related to the student's profession. (CR/NC Grading) (PR: At least 8 of the following courses and permission of instructor: ACE 601, 609, 614, 646, 648, EDA 500, 600, 640, 740)
Grade Mode: Normal Grading Mode

ACE 667 Co-Op Ed Work Force Exp **1-10 Credit hours**
Alternating or parallel periods of study and paid employment for experiential learning related to student's academic and/or professional goals (Min 50 hours paid work experienc3e per credit hour) (CR/NC GRADING)
Grade Mode: Normal Grading Mode

ACE 668 Internship Field Based Bus/Ind **3 Credit hours**
Internship in the technical content areas of marketing, merchandising, management, or technology. Evaluation of methods, and procedures in marketing, merchandising, management, or technology. (PR: ACE 609, 628, 652, and 656)
Grade Mode: Normal Grading Mode

ACE 671 Eval of Adult and Tech Educ **3 Credit hours**
An examination of the design and evaluation processes used in adult learning areas with emphasis on the T&D and technical fields as well as the general field.
Grade Mode: Normal Grading Mode

ACE 673 Assessment in Adult Tech **3 Credit hours**
Evaluation procedures in adult/technical education including principles of test construction; survey of standardized and published tests; utilization in the classroom or training department; review of statistical methods.
Attributes: Onsite Learning Experience
Grade Mode: Normal Grading Mode

ACE 675 Literature & Research ACE **3 Credit hours**
Program of readings and reports on specific areas of adult/continuing education or particular problems within an area of adult and continuing education; reading selected cooperatively with advisor.
Grade Mode: Normal Grading Mode

ACE 677 Research Method & Design ACE **3 Credit hours**
Study of methodology, application, analysis, and synthesis of research; a review of current studies with attention to statistical techniques, data collecting, data handling, and the impact of particular research.
Grade Mode: Normal Grading Mode

ACE 679 Problem Report **1-6 Credit hours**
Grade Mode: Normal Grading Mode

ACE 680 International Workforce Dev **3 Credit hours**
This course is designed for students in technical and social fields who are interested in workforce development. It has three components: education and training, collaborative research, and technical assistance.
Grade Mode: Normal Grading Mode

ACE 681 Thesis **1-6 Credit hours**
Attributes: Thesis
Grade Mode: Normal Grading Mode

ACE 685 ACE Capstone **3 Credit hours**
This course provides training and assessment experiences for students seeking Master of Science degrees in Adult and Technical Education. The student's degree portfolio and capstone assessment will be completed within this course.
Grade Mode: Normal Grading Mode

ACE 689 Grant Proposal Writing **3 Credit hours**
This course involves the development of a grant proposal and includes the steps required to produce a final document.
Grade Mode: Normal Grading Mode

ACE 690 Seminar **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ACE 691 Seminar **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ACE 692 Seminar **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ACE 702 Analysis Lit Comm Tech Coll **3 Credit hours**
Identification and analysis of current issues in community technical college teaching with application of procedures for investigation, accompanied by a critical examination of findings and their application to local programs.
Grade Mode: Normal Grading Mode

ACE 703 Interpret Utl App Res Tch **3 Credit hours**
Students will learn how to choose the appropriate statistics, interpret the outputs, and develop skills in writing about the meaning of the results.
Grade Mode: Normal Grading Mode

ACE 707 Professional Seminar I **1 Credit hour**
Selected topics in programs and institutional aassessment related to community and technical colleges.
Grade Mode: Normal Grading Mode

ACE 708 Professional Seminar II **1 Credit hour**
Selected topics in thesis proposal, overview of grantsmanship, and funding sources. Discussion of the effects of new technologies and the Internet on the proposal process.
Grade Mode: Normal Grading Mode

ACE 709 Professional Seminar III **1 Credit hour**
Provides students an opportunity to sythesize prior course experience and to prepare and present a draft thesis prospectus.
Grade Mode: Normal Grading Mode

ACE 712 Class Asses Comm Tech Coll **3 Credit hours**
Presentation of assessment principles that clearly and specifically relate to instruction, current research and new directions in the assessment field, and practical and realistic examples and suggestions.
Grade Mode: Normal Grading Mode

ACE 718 Ed and Employ Pre Diverse Pop **3 Credit hours**
The needs of diverse/special needs population, including youth and adults with disabilities, disadvantaged, limited English proficient, displaced workers, minorities, incarcerated, and single teen parents. Specific attention to federal legislation.
Grade Mode: Normal Grading Mode

ACE 723 Persp Strategies Teach Work Ed **3 Credit hours**
Teaching/learning process and consideration of teaching methods employed to encourage, guide, and evaluate community and technical college students' learning.
Grade Mode: Normal Grading Mode

ACE 726 Fund Plan Admin Issues CTC **3 Credit hours**
Governance and administration of the contemporary community and technical college in the United States with a focus on planning, funding, and selected administrative issues.
Grade Mode: Normal Grading Mode

ACE 781 Thesis **6 Credit hours**
Individual research in a selected field of community and technical college teaching under the direction of a graduate faculty member of the department.
Attributes: Thesis
Grade Mode: Normal Grading Mode

Applied Behavior Analysis

ABA 600 Basic Princ of Behavior **3 Credit hours**
The course focuses on the principles and concepts of operant and respondent conditioning. The content prepares students to take the BCBA exam.
Grade Mode: Normal Grading Mode

ABA 610 Theory Phil Behavioral Anyls **3 Credit hours**
This course will provide the student with the underlying theoretical and philosophical foundations of behavior analysis. The content prepares students to take the BCBA exam.
Grade Mode: Normal Grading Mode

ABA 620 Research Meth Beh Analy **3 Credit hours**
Course content includes measurement, data display, and interpretation, single-case designs, and research ethics. The content prepares students to take the BCBA exam.
Grade Mode: Normal Grading Mode

ABA 630 Beh Assess Intervention I **3 Credit hours**
Students will learn to select and implement behavior assessment and intervention strategies. The content prepares students to take the BCBA exam.
Pre-req: ABA 600 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ABA 640 Beh Assess Interv II **3 Credit hours**
This course is a continuation of ABA 630. Students will apply behavioral principles in multiple areas of practice. The content prepares students to take the BCBA exam.
Pre-req: ABA 600 with a minimum grade of C and ABA 630 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ABA 650 Beh Change in Systems **3 Credit hours**
This course focuses on behavior change and collaboration at the system's level. The content prepares students to take the BCBA exam.
Grade Mode: Normal Grading Mode

ABA 660 Ethics in App Beh Analy **3 Credit hours**
A review of ethical principles related to research and practice in Applied Behavior Analysis. The content prepares students to take the BCBA exam.
Grade Mode: Normal Grading Mode

ABA 670 Sup Fieldwork in ABA **3 Credit hours**
Concentrated fieldwork at approved site in accordance with BACB requirements. Students must take 3 credit hours per semester for a total of 9 hours. Requires instructor approval and an application.
Pre-req: ABA 600 with a minimum grade of C.
Attributes: Onsite Learning Experience
Grade Mode: Pass/Fail Grading Mode

ABA 680 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ABA 685 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ABA 690 Research in App Beh Analy **3 Credit hours**
Students will investigate a research problem of theoretical interest and practical value. May only be taken with permission.
Grade Mode: Normal Grading Mode

Counseling

COUN 509 Interv:Grp Proc/Dynamics/Thrpy **3 Credit hours**
Pre-req: (COUN 500) and (COUN 507) and (COUN 551).
Grade Mode: Normal Grading Mode

COUN 515 Humanizing Ed-Person in Proces **3 Credit hours**
Study of career choice theory, career change, counseling approaches in career selection and resources to assist in career choice.
Grade Mode: Normal Grading Mode

COUN 555 Crisis Int & Conf Res **3 Credit hours**
Students explore types, effects, and interventions for crises, disasters, and other trauma-causing events across the lifespan. Specific topics include ethics, self-care, cultural competence, suicide/homicide, intimate partner violence, sexual assault, emergency preparedness, disaster mental health, grief and bereavement.
Pre-req: COUN 600 with a minimum grade of C and COUN 609 with a minimum grade of C and COUN 574 with a minimum grade of C.
Grade Mode: Normal Grading Mode

COUN 556 Death & Grief Counseling **3 Credit hours**
Death and dying orientation for professionals, nonprofessionals about essentials of life in its terminal stages. Presents practical, theoretical, social and psychological aspects to promote healthy, accepting attitudes.
Pre-req: COUN 603 with a minimum grade of C and COUN 607 with a minimum grade of C and COUN 675 with a minimum grade of C.
Co-req: COUN 555
Grade Mode: Normal Grading Mode

COUN 560 Staff Development **1-4 Credit hours**
To meet needs of school, student personnel, mental health, and other workers. Credit may be used for certificate renewal and salary upgrading, but not degree programs. Titles vary.
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

COUN 561 Staff Development **1-4 Credit hours**
To meet needs of school, student personnel, mental health, and other workers. Credit may be used for certificate renewal and salary upgrading, but not degree programs. Titles vary. (CR/NR grading)
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

COUN 562 Staff Development **1-4 Credit hours**
To meet needs of school, student personnel, mental health, and other workers. Credit may be used for certificate renewal and salary upgrading, but not degree programs. Titles vary (CR/NR)
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

COUN 563 Staff Development **1-4 Credit hours**
To meet needs of school, student personnel, mental health, and other workers. Credit may be used for certificate renewal and salary upgrading, but not degree programs. Titles vary. (CR/NR grading)
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

COUN 571 Health & Wellness Couns **3 Credit hours**
Designed to help counselors deal with lifestyle issues related to physical well-being and demonstrate how health professionals can use counseling interventions in their work.
Grade Mode: Normal Grading Mode

COUN 574 Social & Cultural Found **3 Credit hours**
Recognize and use appropriate resources for effective counseling of people of different culturla, ethnic, social , class, racial, geographic, or other backgrounds. Learn when counseling is appropriate and in what form.
Grade Mode: Normal Grading Mode

COUN 575 Prev & Treat of Addict **3 Credit hours**
Course surveys assessment, diagnosis, and treatment of addiction from a bio-pyscho-social perspective.
Pre-req: COUN 607 with a minimum grade of C and COUN 603 with a minimum grade of C and COUN 675 with a minimum grade of C.
Grade Mode: Normal Grading Mode

COUN 577 Stress Management Counseling **3 Credit hours**
Provides beginning counselors an others with comprehensive information and strategies for successful management of stress and its consequences. Students explore theoretical and practical alternatives in counseling the stressed individual.
Pre-req: COUN 603 with a minimum grade of C and COUN 607 with a minimum grade of C and COUN 675 with a minimum grade of C.
Grade Mode: Normal Grading Mode

COUN 578 Creativity in Counseling **3 Credit hours**
Provide methods of integrating creativity and expressive therapy modalities into the therapeutic relationship in school and clinical mental health settings.
Pre-req: COUN 607 with a minimum grade of C and COUN 603 with a minimum grade of C and COUN 675 with a minimum grade of C.
Grade Mode: Normal Grading Mode

COUN 579 Pharmacology in Counseling **3 Credit hours**
Provides basic understanding of the role of therapeutic drugs in the treatment of psychiatric disorders, familiarize with most commonly used drugs, side effects, and adverse reactions in specific mental illness. (PR: COUN 600 & 601)
Pre-req: COUN 603 with a minimum grade of C and COUN 607 with a minimum grade of C and COUN 675 with a minimum grade of C.
Grade Mode: Normal Grading Mode

COUN 580 Special Topics **1-4 Credit hours**
Study, reading, and research in specialized areas of counseling and human relations. Areas of interest are offered at various times by the faculty to provide specialized study for advanced students or practicing professionals in the field of counseling. (PR: Consent)
Grade Mode: Normal Grading Mode

COUN 581 Special Topics **1-4 Credit hours**
Study, reading, and research in specialized areas of counseling and human relations. Areas of interest are offered at various times by the faculty to provide specialized study for advanced students or practicing professionals in the field of counseling. (PR: Consent)
Grade Mode: Normal Grading Mode

COUN 582 Special Topics **1-4 Credit hours**
Study, reading, and research in specialized areas of counseling and human relations. Areas of interest are offered at various times by the faculty to provide specialized study for advanced students or practicing professionals in the field of counseling. (PR: Consent)
Grade Mode: Normal Grading Mode

COUN 583 Special Topics **1-4 Credit hours**
Study, reading, and research in specialized areas of counseling and human relations. Areas of interest are offered at various times by the faculty to provide specialized study for advanced students or practicing professionals in the field of counseling. (PR: Consent)
Grade Mode: Normal Grading Mode

COUN 585 Independent Study **1-4 Credit hours**
Individual or group study and research of various issues and fields of emphasis in counseling. (PR: Consent)
Grade Mode: Normal Grading Mode

COUN 586 Independent Study **1-4 Credit hours**
Individual or group study and research of various issues and fields of emphasis in counseling. (PR: Consent)
Grade Mode: Normal Grading Mode

COUN 590 Human Sexuality in Coun **3 Credit hours**
Will provide understanding of human sexual development and examine the place of sexuality in human life, including the influences of biological, psychological, social, and cultural factors.
Pre-req: COUN 607 with a minimum grade of C and COUN 603 with a minimum grade of C and COUN 675 with a minimum grade of C.
Grade Mode: Normal Grading Mode

COUN 600 Professional Orientation **3 Credit hours**
This course provides an understanding of all aspects of professional helping in mental health including history, roles, ethics, standards and credentialing. (PR: Program admission or permission)
Grade Mode: Normal Grading Mode

COUN 601 Counsel Consulting Roles **3 Credit hours**
Th is course provides an exploration of consultation roles that are integrated into the various settings in which counselors work. Content includes an orientation to consultation and its historical development, theory and practice issues, and major models. Of special emphasis is focus upon case applications and presentations. (PR: COUN 600 and 607)
Grade Mode: Normal Grading Mode

COUN 602 Human Devel and Adjustment **3 Credit hours**
The course will explore human growth and development from birth through adulthood. Theories of character development, social maturation, abnormalities and variations in development due to gender, culture, and environmental factors will be covered. The change processes, helping relationships, and strategies for facilitating development appropriate to various phases of the life span will be addressed. (PR: COUN 600 and 603)
Grade Mode: Normal Grading Mode

COUN 603 Counseling Theories **3 Credit hours**
Survey of classical and contemporary counseling philosophies, history, and techniques as related to interpersonal relationships in the counseling process.
Pre-req: COUN 574 with a minimum grade of C and COUN 600 with a minimum grade of C and COUN 609 with a minimum grade of C.
Grade Mode: Normal Grading Mode

COUN 604 Group Coun & Tech **3 Credit hours**
Group dynamics, processes, counseling and consulting: includes theories, practices, methods, dynamics, facilitative skills, and supervised practice. (PR: COUN 574, 600, 602, EDF 621 or COUN 609)
Pre-req: COUN 603 with a minimum grade of C and COUN 607 with a minimum grade of C and COUN 675 with a minimum grade of C.
Grade Mode: Normal Grading Mode

COUN 605 Theory Prac Human Appr **3 Credit hours**
Provide an understanding of approaches to assessment and evaluation including history, theoretical and statistical aspects, applications to special populations, and legal and ethical concerns and issues. (PR: COUN 574, 600, 602, EDF 621 or COUN 609)
Pre-req: COUN 574 with a minimum grade of C and COUN 600 with a minimum grade of C and COUN 609 with a minimum grade of C.
Grade Mode: Normal Grading Mode

COUN 606 Career & Lifestyle Develop **3 Credit hours**
A study of career development theories and decision-making models that impact career development and related life factors.
Pre-req: COUN 600 with a minimum grade of C and COUN 609 with a minimum grade of C and COUN 574 with a minimum grade of C.
Grade Mode: Normal Grading Mode

COUN 607 Coun Tech & Human Relat **3 Credit hours**
Course focuses on learning and practicing individual counseling techniques from various theoretical perspective. Emphasis on basic interviewing, assessment, and counseling skills that facilitate the helping process. (PR: COUN 574, COUN 600)
Pre-req: COUN 574 with a minimum grade of C and COUN 600 with a minimum grade of C and COUN 609 with a minimum grade of C.
Grade Mode: Normal Grading Mode

COUN 608 Practicum **3 Credit hours**
A clinical experience under professional supervision preparing the student for internship; audio and video tapes, group supervision and feedback are used to achieve competency in the application of a counseling process. (PR: Consent. Students must have achieved a minimum grade of B in 606, 607, and EDF 621 or 625)
Pre-req: COUN 603 with a minimum grade of C and COUN 675 with a minimum grade of C and COUN 607 with a minimum grade of C.
Attributes: Onsite Learning Experience
Grade Mode: Normal Grading Mode

COUN 609 Research in Counseling **3 Credit hours**
Course provides the foundation of research methods including qualitative, quantitative and mixed methods. Students will also gain a fundamental understanding of basic statistical concepts.
Grade Mode: Normal Grading Mode

COUN 611 Foundations Comm Coun **3 Credit hours**
Examines the history of deinstitutionalization in human services with an emphasis on prevention in the delivery of such services in community agencies. Proposal writing for grants and needs assessmant procedures will be emphasized. (PR: COUN 603)
Grade Mode: Normal Grading Mode

COUN 612 Int-Superv Field Placement K-8 **3 Credit hours**
Pre-req: CR 599 and EDF 517 and EDF 621.
Grade Mode: Normal Grading Mode

COUN 613 Int-Suprv Field Placement 5-12 **3 Credit hours**
Pre-req: CR 599.
Grade Mode: Normal Grading Mode

COUN 616 Domestic Violence **1-3 Credit hours**
An introduction to the epidemiology, dynamics, clinical interventions and treatment of domestic violence.
Pre-req: COUN 603 with a minimum grade of C and COUN 607 with a minimum grade of C and COUN 675 with a minimum grade of C.
Co-req: COUN 555
Grade Mode: Normal Grading Mode

COUN 617 Seminar in Counseling **3 Credit hours**
Investigations in current problems of counseling agencies; content determined by needs of student.
Pre-req: CR 548 and CR 599.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

COUN 620 Workshop in Counseling **1-6 Credit hours**
Special workshops and short intensive courses on theroy, methods, supervision and other special topics in counseling, designed for advanced students and professionals in the counseling field or related fields. (PR: Consent)
Grade Mode: Normal Grading Mode

COUN 621 Intro to Child Abuse & Neglect **1 Credit hour**
Introduction to the dynamics of child abuse and neglect and to the legal and ethical issues of persons mandated to report child abuse and neglect. (PR: COUN 600 and 603)
Pre-req: (COUN 600 and COUN 603) or CR 614.
Grade Mode: Normal Grading Mode

COUN 622 Family Education **3 Credit hours**
Study of family education skills training for conducting family education groups and parent training. .
Grade Mode: Normal Grading Mode

COUN 628 FAMILY THERAPY IMMERSION **3 Credit hours**

COUN 630 Intro to Ment Health Coun **3 Credit hours**
Provides an overview of key functions of the clinical mental health counselor. Areas covered include: ethical decision making, professional identity, theory development, assessment, and diagnosis (PR: COUN 574, 600, 603, 604, 631)
Pre-req: COUN 603 with a minimum grade of C and COUN 607 with a minimum grade of C and COUN 675 with a minimum grade of C.
Grade Mode: Normal Grading Mode

COUN 631 Diag & Treatment Planning **3 Credit hours**
Provides an in-depth exploration of the knowledge and skills necessary for the practice of mental health counseling. Emphasis is given to the principles and practices that relate to psychopathology, DSM diagnosis, etiology and assessment, systematic treatment planning, interviewing, and short and long-term interventions. (PR: COUN 630)
Pre-req: COUN 675 with a minimum grade of C and COUN 603 with a minimum grade of C and COUN 607 with a minimum grade of C.
Grade Mode: Normal Grading Mode

COUN 632 Intro Mar/Coup & Fam Coun **3 Credit hours**
A comprehensive survey of the major theoretical models of marriage, couple, and family therapy from a systems perspective and the applied practices evolving from each orientation. (PR: COUN 600)
Pre-req: COUN 603 with a minimum grade of C and COUN 607 with a minimum grade of C and COUN 675 with a minimum grade of C.
Grade Mode: Normal Grading Mode

COUN 635 Core Funct Addiction Coun **3 Credit hours**
Advanced course designed to prepare students for work with clients presenting with substanace abuse, and addiction disorders. The course will address the nature and treatment of addiction with attention to the core functions of the addiction counselor. (PR: COUN 575)
Grade Mode: Normal Grading Mode

COUN 636 Couple Counseling **3 Credit hours**
This course is designed to introduce students to a variety theoretical concepts, techniques, and their application in the therapeutic setting. Emphasis is on basic interviewing, assessment, and counseling skills that facilitate the helping process through integration of various theoretical orientations.
Grade Mode: Normal Grading Mode

COUN 637 Adult/Family Dev & Transition **3 Credit hours**
Grade Mode: Normal Grading Mode

COUN 638 Interven: Mar/Coup/Fam Coun **3 Credit hours**
An intensive practical experience in marriage, couples, and family therapy techniques to prepare the student to enter the supervised internship of the program. (PR: Students must have achieved a minimum grade of B in COUN 637)
Grade Mode: Normal Grading Mode

COUN 639 Psychotheological Issues **3 Credit hours**
Specialization course offering topics germane to the concerns of Mental-Health workers, pastoral counselors, stress involved in counseling in religious settings.
Grade Mode: Normal Grading Mode

COUN 640 Sem Spirituality in Coun **3 Credit hours**
Seminar will view spirituality across many Religious traditions. The seminar interweaves spiritual bases and spiritual growth in counseling to better understand responsibility for actions and emotions.
Grade Mode: Normal Grading Mode

COUN 641 Correction Coun Seminar **1-9 Credit hours**
A critical examination of counseling models in corrections and an appraisal of current professional trends in community corrections. The course may include field experience in correctional settings. The course is designed for visiting professors and/or consultants who offer an expertise in a correctional setting. (PR: COUN 600 & 603 or Consent)
Pre-req: COUN 600 and COUN 603 or CR 614.
Grade Mode: Normal Grading Mode

COUN 646 Correctn Coun: Client Advocacy **3 Credit hours**
Techniques of collecting, recording & interpreting data.
Grade Mode: Normal Grading Mode

COUN 648 LEG/ETHIC/PROF ISSUES-MAR/FAMI **3 Credit hours**
Psychological foundations of personality development with emphasis on principles of mental health as related to problems of everyday living.
Grade Mode: Normal Grading Mode

COUN 650 Seminar Career Coun **3 Credit hours**
Counseling tools and techniques with emphasis on problem categories and patterns as related to the psychology of individual differences.
Pre-req: CR 599 and CR 548 and CR 614.
Grade Mode: Normal Grading Mode

COUN 651 Seminar Career Coun **3 Credit hours**
Practical experiences in cunseling under professional supervision.
Grade Mode: Normal Grading Mode

COUN 652 Career Coun Spec Populations **3 Credit hours**
Post-Master's Internship designated to fulfill the requirement for State certification as a school counselor. Not offered in summer terms.
Pre-req: (COUN 500) and (COUN 507).
Grade Mode: Normal Grading Mode

COUN 653 Career Asses Tech & Rept **3 Credit hours**
Supervised on-the-job experience in Agency Counseling. Supervised on-the-job experiences in counseling.
Pre-req: CR 672 and CR 651.
Grade Mode: Normal Grading Mode

COUN 654 Family Violence **3 Credit hours**
The course will examine violence in families, covering ages from infancy to elder adulthood with a focus on variations in types of assault, violence, and abuse found within, among, or pertaining to family members across all ages.
Pre-req: COUN 603 with a minimum grade of C and COUN 607 with a minimum grade of C and COUN 675 with a minimum grade of C.
Co-req: COUN 555
Grade Mode: Normal Grading Mode

COUN 655 Coun Victims Dom Violence **3 Credit hours**
This course will provide a foundation in assessment, treatment, and advocacy for victims, perpetrators, and children who have been involved in relationships or families where domestic violence has been present.
Pre-req: COUN 603 with a minimum grade of C and COUN 607 with a minimum grade of C and COUN 675 with a minimum grade of C.
Co-req: COUN 555
Grade Mode: Normal Grading Mode

COUN 656 DVIII: Children as Victims **3 Credit hours**
This course will address issues related to the cognitive, behavioral, and emotional problems of children who are primary victims or witness of domestic violence, and explore appropriate interventions.
Pre-req: CR 661 and CR 651.
Grade Mode: Normal Grading Mode

COUN 657 DVI: Working with Victims **3 Credit hours**
The course will focus on victim dynamics, diagnostic indicators that victims may present without revealing abuse, and treatment interventions that focus on victim strengths and empowerment.
Grade Mode: Normal Grading Mode

COUN 658 Community Response to DV **3 Credit hours**
This course will examine community systems and best practices associated with a centralized approach to victim and child safety and batterer accountability.
Pre-req: CR 613 and CR 651.
Grade Mode: Normal Grading Mode

COUN 660 Intro to Student Affairs **3 Credit hours**
Provides a broad, comprehensive introduction to the field of college student affairs and its role with the context of American higher education. Various student affairs functional areas, historical, and philosophical foundations of the field, professional standards, guiding theories, and models, and competencies needed to work with diverse student populations are examined.
Pre-req: CR 548 and CR 599 and COUN 603.
Grade Mode: Normal Grading Mode

COUN 662 Current Issues in Stu Affairs **3 Credit hours**
To enhance the student's awareness and understanding of the educational, environmental, administrative, legal, and ethical issues in the field of Student Affairs in colleges and universities, this course provides the opportunity to discover, discuss and analyze current issues impacting student affairs practices both nationally and internationally. (PR: COUN 603 and 607)
Pre-req: COUN 603 and COUN 607.
Grade Mode: Normal Grading Mode

COUN 663 Adv Seminar in Coun Theory **3 Credit hours**
Pre-req: (COUN 509).
Grade Mode: Normal Grading Mode

COUN 665 Community Resources **3 Credit hours**
Pre-req: (COUN 500) and (COUN 507).
Grade Mode: Normal Grading Mode

COUN 668 LEGAL/ETHIC ASP COUNS & STU PE **3 Credit hours**

COUN 669 Independent Study **1-6 Credit hours**
Grade Mode: Normal Grading Mode

COUN 670 Interv Current Issues Sch **3 Credit hours**
An in-depth examination of effective strategies for dealing with current issues in K-12 environment. Issuses such as academic failure, substance abuse, loss, violence, multicultural factors, etc. will be explored. (PR: COUN 603 and 607)
Pre-req: COUN 603 with a minimum grade of C and COUN 607 with a minimum grade of C.
Grade Mode: Normal Grading Mode

COUN 671 Voc Coun in the Schools **3 Credit hours**
A basic course for the community agency counselor, this course will introduce the student to: Diagnostics, based on the DSM III, Records, Report Writing, Ethics, and Law. (Core courses or permission)
Pre-req: CR 548 and CR 599.
Grade Mode: Normal Grading Mode

COUN 672 Current Pract in School Coun **3 Credit hours**
In-depth analysis of comprehensive developmental guidance school counseling programs, including the coordination of these program. Examination of effective strategies for dealing with current issues in K-12 environments will be covered.
Pre-req: COUN 600 with a minimum grade of C and COUN 609 with a minimum grade of C and COUN 574 with a minimum grade of C.
Grade Mode: Normal Grading Mode

COUN 673 Coun Child Adol Parents **3 Credit hours**
Consideration of effective counseling strategies and techniques appropriate for children, adolescents and parents through lecture, demonstration and laboratory experiences. Personal, social, career, academic and family related issues and dynamics will be explored. (PR: COUN 600 and 603)
Pre-req: COUN 607 with a minimum grade of C and COUN 603 with a minimum grade of C and COUN 675 with a minimum grade of C.
Grade Mode: Normal Grading Mode

COUN 674 Observe Sch Environment **3 Credit hours**
Introduction to the roles and functions of school pupil personnel professionals (general classrooms, exceptional student environments, support staff and administration), models of operation, problems, issues, and technniques. The organization and administration of school systems and philosophy of general and special education are considered. Students will spend a minimum of one-helf day a week observing in K through 12 schools.
Grade Mode: Normal Grading Mode

COUN 675 Leg/Ethical Issues for Coun **3 Credit hours**
An overview of professional issues in the field of counseling, mental health and education; an overview of legal and ethical issues specific to the field of counseling; an overview of international, national, regional and state legal and ethical cases effecting the field of counseling; an introduction to ethical and legal issues including an ethical and legal decision making models, licensure and Certification requirements, confidentiality, etc (PR: COUN 600 and COUN 603).
Pre-req: COUN 600 with a minimum grade of C and COUN 609 with a minimum grade of C and COUN 574 with a minimum grade of C.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

COUN 682 Tr in Trauma Recovery **3 Credit hours**
This course explores types of trauma experience in modern society, the inter- and intrapersonal effects those types of trauma on clients, and an introduction to treatment modalities and evidence based practice.
Pre-req: COUN 603 with a minimum grade of C and COUN 607 with a minimum grade of C and COUN 675 with a minimum grade of C.
Co-req: COUN 555
Grade Mode: Normal Grading Mode

COUN 683 Psychophys of Trauma **3 Credit hours**
This course explores effects of trauma on the central nervous system, psychomotor abilities and physiological and emotional responses to trauma, PTSD, traumatic injury.
Pre-req: COUN 603 with a minimum grade of C and COUN 607 with a minimum grade of C and COUN 675 with a minimum grade of C.
Co-req: COUN 555
Grade Mode: Normal Grading Mode

COUN 684 Treating Complex Trauma & Loss 3 Credit hours
This course focuses on the treatment of complex trauma and loss, through investigation of trauma theory, phases of post-traumatic recovery, evidence-based treatment, and practice implications for complex cases. (PR: COUN 556 and COUN 682)
Pre-req: COUN 603 with a minimum grade of C and COUN 607 with a minimum grade of C and COUN 675 with a minimum grade of C.
Co-req: COUN 555
Grade Mode: Normal Grading Mode

COUN 685 Military Cult & Treat Vets 3 Credit hours
This course is designed to introduce students to the nature of military culture, the unique challenges of deployment and re-entry for both military personnel and their families, and various mental health best practices specific to those affected with combat-related PTSD, TBI, and other traumatic injuries.
Pre-req: COUN 603 with a minimum grade of C and COUN 607 with a minimum grade of C and COUN 675 with a minimum grade of C.
Co-req: COUN 555
Grade Mode: Normal Grading Mode

COUN 686 Trauma and Suffering 3 Credit hours
This course focuses on existential suffering caused by traumatic stress, and the counseling needs of affected individuals. It explores the nature of suffering, as well as a variety of philosophical, religious, and theoretical approaches to suffering. The course presents best practices for clinical approaches within professional counseling.
Pre-req: COUN 603 with a minimum grade of C and COUN 607 with a minimum grade of C and COUN 675 with a minimum grade of C.
Co-req: COUN 555
Grade Mode: Normal Grading Mode

COUN 687 Tr Rest Jus Sch Comm 3 Credit hours
Critically examines restorative justice practices and principles in the context of traumatic stress. Reviews restorative justice both in school systems and in community settings, highlighting current best clinical practices and recent research.
Pre-req: COUN 603 with a minimum grade of C and COUN 607 with a minimum grade of C and COUN 675 with a minimum grade of C.
Co-req: COUN 555
Grade Mode: Normal Grading Mode

COUN 691 Intern Mental Health Coun 1-6 Credit hours
Internship in Clinical Mental Health Counseling. 1-6 hrs. Supervised experience in mental health counseling. Participation in seminars on specified topics. Minimum 100 clock hours for each semester hour credit. (PR: COUN 608 and 631 with minimum grade of B or permission)
Pre-req: COUN 604 with a minimum grade of C and COUN 608 with a minimum grade of C and COUN 631 with a minimum grade of C.
Attributes: No Textbook Required, Onsite Learning Experience
Grade Mode: Normal Grading Mode

COUN 692 Intern Community Counseling 1-6 Credit hours
Supervised experience in community counseling.
Pre-req: COUN 608 and COUN 631.
Grade Mode: Normal Grading Mode

COUN 693 Internship Marr & Fam Coun 3-6 Credit hours
Internship in Marriage and Family Counseling. CR/NC. 3-6 hrs. Supervised experience in mental health counseling. Participation in seminars on specified topics. Minimum 100 clock hours for each semester hour credit. (PR: COUN 608 with grade of CR and minimum grade of B in COUN 638).
Pre-req: (COUN 608 and COUN 631) or CR 614.
Grade Mode: Credit/No Credit Grade Only

COUN 695 Intern in Correct Coun 3-6 Credit hours
Supervised experience in corrections counseling. Participation in seminars on specified topics. Minimum 100 clock hours for each semester hour credit. (PR: COUN 608 and 641 with a minimum grade of B or permission)
Pre-req: (COUN 608 and COUN 641) or CR 614.
Grade Mode: Credit/No Credit Grade Only

COUN 696 Intern Career Coun 3-6 Credit hours
Supervised experience in career counseling. Particitation in seminars on specified topics. Minimum 100 clock hours for each semester hour credit. (PR: COUN 608 and 653 with a minimum grade of B or permission)
Grade Mode: Normal Grading Mode

COUN 697 Internship Student Aff Coun 3-6 Credit hours
Supervised experience in career counseling. Participation in seminars on specified topics. Minimum 100 clock hours for each semester hour credit. (PR: COUN 608 and 652 with a minimum grade of B or permission.)
Grade Mode: Normal Grading Mode

COUN 698 Internship in School Coun 1-6 Credit hours
Internship in School Counseling. 1-6 hrs. Supervised experience in school counseling. Participation in seminars on specified topics. Minimum 100 clock hours for each semester hour credit. (PR: COUN 608, 670, 672, 675).
Pre-req: COUN 608 with a minimum grade of C and COUN 604 with a minimum grade of C and COUN 672 with a minimum grade of C and COUN 631 with a minimum grade of C.
Attributes: Onsite Learning Experience
Grade Mode: Normal Grading Mode

COUN 740 Internship 1-12 Credit hours
A course designed to offer advanced graduate students an opportunity to practice under close supervision the professional skills required in the broad field of counseling in school and community settings. Instructor will indicate in course syllabus whether class is letter graded or S/U. (PR: Consent)
Pre-req: (COUN 611) or (COUN 612) or (COUN 613) or (COUN 614) or (COUN 615) or (COUN 616).
Grade Mode: Credit/No Credit Grade Only

COUN 741 Prof Devel & Advocacy 3 Credit hours
This course prepares professional counselors for community leadership roles related to client advocacy in multicultural settings, current political trends, theories of social change, social justice, and advocacy planning.
Grade Mode: Normal Grading Mode

COUN 742 Current Issues in School Couns **3 Credit hours**
An examination of current issues affecting professional counselors and training in effectively dealing with the issues. Selected readings, guest speakers, and class discussion will center around professional issues relevant to counselors in various settings (i.e., legal and ethical considerations) (PR: Consent)
Pre-req: (COUN 509) and (ED 501) and (PSYC 584).
Grade Mode: Normal Grading Mode

COUN 746 Systems Intervention **3 Credit hours**
Examination of the major systems which may require intervention by a supervisor of counselors and training in effective intervention strategies. (PR: Consent)
Pre-req: (COUN 612) or (COUN 613).
Grade Mode: Normal Grading Mode

COUN 747 Adv Group Counseling **3 Credit hours**
The application of counseling theories in group settings, including supervised group leardership experiences. (PR: Consent)
Pre-req: COUN 604 with a minimum grade of C.
Grade Mode: Normal Grading Mode

COUN 750 Seminar **1-6 Credit hours**
For students in post-master's work who wish to discuss and study theory, principles, and techniques of counseling or other special topics. Instructor will indicate in course syllabus whether class is letter graded of S/U. (PR: Consent)
Pre-req: COUN 608 or COUN 603G or CR 614.
Grade Mode: Normal Grading Mode

COUN 755 Models of Counselor Supervisn **3 Credit hours**
A survey of theoretical approaches and techniques counseling supervision. Emphasis is placed on supervision of counselors in various settings. (PR: Consent)
Pre-req: (COUN 612) or (COUN 613).
Grade Mode: Normal Grading Mode

COUN 756 Residency in Counselor Suprvsn **6 Credit hours**
Supervised application of the knowledge and skills gained in the Ed.S. Program. Students will supervise practicing counselors in approved settings. (PR: Acceptance into the Ed.S. Program, completion of all other Ed.S. academic requirements, and consent)
Grade Mode: Normal Grading Mode

COUN 760 Special Topics **1-6 Credit hours**
Study, reading, and research in specialized areas of counseling, human relations, guidance or other special The Master of Arts
Grade Mode: Normal Grading Mode

Curriculum and Instruction

CI 501 Middle Childhood Curric **3 Credit hours**
The study of procedures for creating a functional middle childhood curriculum with emphasis upon the needs of middle childhood learners.
Grade Mode: Normal Grading Mode

CI 503 Meth Teach Mid Child Grd **3 Credit hours**
Study of methods appropriate for teaching in the middle childhood grades and the production and utilization of materials and resources in these grades. Middle school clinical experience is required.
Grade Mode: Normal Grading Mode

CI 511 Analysis Teach Early Yrs **2 Credit hours**
The analysis and appraisal of teaching strategies employed in the teaching of young children.
Grade Mode: Normal Grading Mode

CI 515 Int Meth & Mat: Sec Ed **3 Credit hours**
General scaondary/middle school course with emphasis on instructional standards and objectives, methods, and materials of the disciplines. A clinical experience provides observation and teaching.
Co-req: EDF 537
Grade Mode: Normal Grading Mode

CI 517 Classroom Discipline Tech **3 Credit hours**
Identification of common classroom discipline problems and techniques for dealing with behavioral incidents in school settings K-12.
Grade Mode: Normal Grading Mode

CI 542 Instr & Clrm Mgt in Elem Ed **3 Credit hours**
This course allows elementary education students to critically examine a variety of classroom management strategies and educational issues that impact instruction.
Grade Mode: Normal Grading Mode

CI 549 Instr & Clrm Mgt Sec Ed **3 Credit hours**
Classroom management with an emphasis on practical techniques for dealing with management problems in secondary and middle school settings.
Grade Mode: Normal Grading Mode

CI 551 Writing to Learn/Content Area **3 Credit hours**
Designed to introduce teachers to successful approaches and strategies to foster thinking and learning through writing, and experiment with a variety of approaches and techniques in their classrooms.
Grade Mode: Normal Grading Mode

CI 552 WV Writing Project **3-6 Credit hours**
Participants will examine problems in the teaching of writing, present and demonstrate approaches to the teaching of writing, study current and past research in the field.
Grade Mode: Normal Grading Mode

CI 559 Diversity Equity Incl in Ed **3 Credit hours**
Considers diversity, equity, and inclusion with an emphasis on theory and practice for teaching students with diverse perspectives and backgrounds.
Grade Mode: Normal Grading Mode

CI 560 Staff Development **1-4 Credit hours**
Courses and activities designed to meet the specific inservice need of public school personnel. Credit in these courses may be used for certificate renewal and salary upgrading if approved but not in degree programs.
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

CI 561 Staff Development **1-4 Credit hours**
Courses and activities designed to meet the specific inservice need of public school personnel. Credit in these courses may be used for certificate renewal and salary upgrading if approved but not in degree programs. CR/NC grading.
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

CI 562 Staff Development **1-4 Credit hours**
Courses and activities designed to meet the specific inservice needs of public school personnel. Credit in these courses may be used for certificate renewal and salary upgrading if approved but not in degree programs. CR/NC grading.
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

CI 563 Staff Development **1-4 Credit hours**
Courses and activities designed to meet the specific inservice needs of public school personnel. Credit in these courses may be used for certificate renewal and salary upgrading if approved but not in degree programs. CR/NC grading.
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

CI 564 Staff Development **1-4 Credit hours**
Courses and activities designed to meet the specific inservice needs of public school personnel. Credit in these courses may be used for certificate renewal and salary upgrading if approved but not in degree programs. CR/NC grading.
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

CI 580 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CI 581 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CI 582 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CI 583 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CI 584 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CI 585 Independent Study **1-4 Credit hours**
Permission of Chair and GPA 3.0 to take class. Limit of 6 hrs. of Independent Study to be used in master's degree program.
Grade Mode: Normal Grading Mode

CI 586 Independent Study **1-4 Credit hours**
Permission of Chair and GPA 3.0 to take class. Limit of 6 hrs. of Independent Study to be used in master's degree program.
Grade Mode: Normal Grading Mode

CI 587 Independent Study **1-4 Credit hours**
Permission of Chair and GPA 3.0 to take class. Limit of 6 hrs. of Independent Study to be used in master's degree program.
Grade Mode: Normal Grading Mode

CI 588 Independent Study **1-4 Credit hours**
Permission of Chair and GPA 3.0 to take class. Limit of 6 hrs. of Independent Study to be used in master's degree program.
Grade Mode: Normal Grading Mode

CI 591 Workshop **1-4 Credit hours**
A study of practical applications in teacher education and related fields for advanced students and professionals. Experience in new techniques and application of new knowledge.
Grade Mode: Normal Grading Mode

CI 592 Workshop **1-4 Credit hours**
A study of practical applications in teacher education and related fields for advanced students and professionals. Experience in new techniques and application of new knowledge.
Grade Mode: Normal Grading Mode

CI 593 Workshop **1-4 Credit hours**
A study of practical applications in teacher education and related fields for advanced students and professionals. Experience in new techniques and application of new knowledge.
Grade Mode: Normal Grading Mode

CI 594 Workshop **1-4 Credit hours**
A study of practical applications in teacher education and related fields for advanced students and professionals. Experience in new techniques and application of new knowledge.
Grade Mode: Normal Grading Mode

CI 605 Trauma Res. Child Guid. in ECE **3 Credit hours**
Analysis of research-based, developmentally appropriate child guidance methods through a trauma-responsive lens that can be implemented by those who work with young children.
Grade Mode: Normal Grading Mode

CI 609 Curric Modern Elem School **3 Credit hours**
Examination of traditional and current assumptions undergiriding the modern elementary school curriculum with emphasis on converting theoretical bases into plans for curriculum change and modernization.
Grade Mode: Normal Grading Mode

CI 610 Curric Modern Sec School **3 Credit hours**
Analysis of the social and political factors which affect secondary school curriculum and emphasis upon trends and developments in high schools today.
Grade Mode: Normal Grading Mode

CI 618 Inform Learn Prim Mid Sch **3 Credit hours**
Informal learning in the primary and middle school with emphasis on the significance of natural child development, learning through games and play, and the British model for infant and junior schools, and related activities for the middle years (ages 10-14) in middle school settings.
Grade Mode: Normal Grading Mode

CI 623 Instruct Models Assess Tech **3 Credit hours**
Selected teaching models are analyzed with implications for the role of the teacher; assessment of influences of the teacher.
Grade Mode: Normal Grading Mode

CI 624 Adv Instruction Strategy **3 Credit hours**
Performance-based laboratory experiences in a micro-teaching laboratory development of a personalized teaching repertoire. (PR: CI 515 or permission)
Pre-req: CI 515.
Grade Mode: Normal Grading Mode

CI 627 Program Plan and Evaluation **3 Credit hours**
Explicitly links program planning in/for organizations with advances in evaluation research practice in education and closely related fields. Designed for students engaged in varying levels of professional practice.
Grade Mode: Normal Grading Mode

CI 630 Practicum Early Childhood Ed **1-3 Credit hours**
Supervised experience in teaching pre-kindergarten and/or kindergarten
Attributes: Onsite Learning Experience
Grade Mode: Satisfactory/Unsatisfactory

CI 631 Early Child. Approach & Method **3 Credit hours**
Exploration of research-based and instructional-focused approaches to early childhood education in and out of the classroom environment.
Grade Mode: Normal Grading Mode

CI 632 Early Childhood Programs **3 Credit hours**
An examination of past and present programs for young children with opportunity provided for curriculum development.
Grade Mode: Normal Grading Mode

CI 633 Adult Involve in Early Ed **3 Credit hours**
Ways of communicating and involving paraprofessionals, parents, volunteers, staff in the education of young children.
Grade Mode: Normal Grading Mode

CI 634 Lang/Cog Early Childhood **3 Credit hours**
Examination of selected studies in language acquisition and cognitive development of children from birth to eight years of age.
Grade Mode: Normal Grading Mode

CI 638 Curriculum Planning **3 Credit hours**
A study of the fundamental skills needed to evaluate educational progress at the classroom, program, and school levels.
Grade Mode: Normal Grading Mode

CI 640 Literature **1-3 Credit hours**
A program of reading, either extensive or intensive, and reports on a group of outstanding contributions to education; readings selected with guidance of advisor. Only one registration for Curriculum and Instruction 640 is permitted.
Grade Mode: Normal Grading Mode

CI 641 Seminar **1-6 Credit hours**
A guided program of readings, reports and discussions. No student may register for this course a second time.
Grade Mode: Normal Grading Mode

CI 656 Teaching Language Arts **3 Credit hours**
A unified Reading-Language instructional approach to develop a basic understanding of reading-language related principles derived from disciplines, research, and innovation classroom practices.
Grade Mode: Normal Grading Mode

CI 657 Adv Tchg Elem/Mdle Sch Math **3 Credit hours**
Historical, social, psychological, and philosophical foundations of mathematics education; investigation of current trends and issues in contemporary programs.
Grade Mode: Normal Grading Mode

CI 659 Symposium Elem/Sec Ed I **3 Credit hours**
The symposium is the culmination of the master's degree program in Elementary Education. Secondary Education, and Early Childhood Education. This is the first of a twopart sequence. (PR: Consent)
Grade Mode: Credit/No Credit Grade Only

CI 670 Adv Tchg Elem/Mdle Sch SOS **3 Credit hours**
Materials and procedures for teaching social studies with emphasis on a survey of succesful programs of instruction.
Grade Mode: Normal Grading Mode

CI 671 Adv Tchg Elem/Mdle Sch Science **3 Credit hours**
Intensive concentration on helping children inquire into the earth, physical, and biological sciences through modern methods and media.
Grade Mode: Normal Grading Mode

CI 672 Practicum in Education **3-6 Credit hours**
Clinical Experience: Directed activity in a clinical setting.
Attributes: Onsite Learning Experience
Grade Mode: Credit/No Credit Grade Only

CI 675 Curriculum Theory **3 Credit hours**
Analysis of the assumptions undergirding curriculum development.
Grade Mode: Normal Grading Mode

CI 676 Program Evaluation **1-3 Credit hours**
An examination of program evaluation models and techniques for instructional supervisors.
Grade Mode: Normal Grading Mode

CI 677 Writing Publicatn Prof Ed **3 Credit hours**
For professional educators and students who wish to study and practice writing articles for publication in scholarly journals in the field of education.
Grade Mode: Normal Grading Mode

CI 678 The Supervising Teacher **3 Credit hours**
Duties and responsibilities of the teacher who supervises student teachers.
Grade Mode: Normal Grading Mode

CI 679 Classrm Mgt Elem Teachers **3 Credit hours**
This course is designed for elementary teachers. The content includes methods of managing the physical and social environment in the classroom.
Grade Mode: Normal Grading Mode

CI 680 Symposium Elem/Sec Ed II **3 Credit hours**
The comprehensive assessment requirement is met within the framework of this course. (PR: Consent.)
Grade Mode: Satisfactory/Unsatisfactory

CI 681 Thesis **1-6 Credit hours**
Students completing 681 must defend their thesis in an oral examination.
Attributes: Thesis
Grade Mode: Normal Grading Mode

CI 690 Capstone Experience **3 Credit hours**
This course is designed as a culminating experience that allows participants to demonstrate professional knowledge and skills related to program experiences.
Grade Mode: Credit/No Credit Grade Only

CI 701 Curriculum Development **3 Credit hours**
To review Curriculum Development and Planning from the historic perspective, the four bases of curriculum and the interpretation into the assumptions that can be translated into instructional design.
Grade Mode: Normal Grading Mode

CI 702 Curriculum Theories **3 Credit hours**
This course will give the students a basic foundation in the theories and paradigms underlying curriculum from the past, present and future.
Grade Mode: Normal Grading Mode

CI 703 Theory Models & Res. of Teach **3 Credit hours**
It is the intent of this course to analyze and synthesize the historical development as it correlates to the development of curriculum and ultimately has implication on instructional design. Besides behaviorism, cognitivism, and constructivism, this course will discuss humanism, brain-based learning, developmental appropriateness, multiple intelligence and thinking styles.
Grade Mode: Normal Grading Mode

CI 704 Soc Cult Pol Determ Curr **3 Credit hours**
This course critically analyzes the social, cutural, and political determinants of curriculum, and examines issues of difference and equity in curriculum. (PR: Admission to C&I doctoral program or permission)
Grade Mode: Normal Grading Mode

CI 705 Higher Education Curriculum **3 Credit hours**
This course is an introduction to the development and management of the curriculum in higher education instititutions.
Grade Mode: Normal Grading Mode

CI 706 Multicultural/Diversity Issues **3 Credit hours**
This course attempts to understand the issue of differences and equity through personal and critical analyses of the philosophical, social, and cultural perspectives that inform and shape curriculum and teaching.
Grade Mode: Normal Grading Mode

CI 707 Curriculum Change **3 Credit hours**
This course will explore current developments in curriculum transformation and change theory. This course will examine the impace of change theory on curriculum development.
Grade Mode: Normal Grading Mode

CI 735 Policy Studies **3 Credit hours**
This course focuses on current organizational policy issues and provides conceptual and analytical tools for their critical examination.
Grade Mode: Normal Grading Mode

CI 780 Special Topics in Curr/Inst **1-9 Credit hours**
This course requires study, reading and research in an advisor/chair approved area of curriculum and instruction. This course limited to Ed.D and Ed.S. students.
Grade Mode: Normal Grading Mode

CI 785 Independent Study **3 Credit hours**
Independent Study
Grade Mode: Normal Grading Mode

CI 797 Curr & Inst Dissertation Res **1-9 Credit hours**
This course is designed to support the student's doctoral research. The major focus is competion of the dissertation. (PR: Admitted to Candidacy of C & I Doctoral Program. First Term Offered: Spring 2004)
Attributes: Thesis
Grade Mode: Credit/No Credit Grade Only

Curriculum Instruction Deaf/Hard of Hearing

CIDH 501 American Sign Language I **3 Credit hours**
This course emphasizes the learning of basic person-to person conversational signing skills as a second language, including use and comprehension of ASL vocabulary, syntax and fingerspelling.
Grade Mode: Normal Grading Mode

CIDH 502 American Sign Language II **3 Credit hours**
For professionals serving deaf/hard of hearing (D/HH) individuals. Includes deaf culture, functional language and legal issues in deaf education. (PR: CIDH 501)
Pre-req: CIDH 501.
Grade Mode: Normal Grading Mode

CIDH 503 American Sign Language III **3 Credit hours**
For professionals serving deaf/hard of hearing (D/HH). Includes deaf culture, the impact of cross-cultural perspectives on D/HH children, language in the Deaf Education classroom. (PR: CIDH 502)
Pre-req: CIDH 502.
Grade Mode: Normal Grading Mode

CIDH 504 Auditory Habilitation **3 Credit hours**
Course will consist of lecture, demonstration, discussion, & student presentations. Graduate students in the course will be required to develop a web-based instructional module illustrating one of the major communication approaches used with children with hearing loss. (PR: Instructor Consent)
Grade Mode: Normal Grading Mode

CIDH 505 Intro Deaf & Hard of Hearing **3 Credit hours**
Introduction to the education of deaf and hard of hearing students (PreK-12) for prospective teachers and other professionals serving deaf/hard of hearing students. (PR: Instructor Consent)
Grade Mode: Normal Grading Mode

CIDH 506 Curr & Meth Deaf/Hard of Hear **3 Credit hours**
Study of curriculum, methods, techniques and materials used in the education of deaf/hard of hearing students. Includes information on classroom organization, classroom management.
Grade Mode: Normal Grading Mode

CIDH 601 Teach Intern & Pract I **3 Credit hours**
This course represents a residential placement in which the student works with deaf and hard of hearing students in a classroom under the direction of a licensed teacher. (PR: Instructor Consent)
Attributes: Onsite Learning Experience
Grade Mode: Credit/No Credit Grade Only

CIDH 602 Tech Intern & Pract II **3 Credit hours**
This course represents a residential placement in which the student works with deaf and hard of hearing students in a classroom under the direction of a licensed teacher. (PR: Instructor Consent)
Attributes: Onsite Learning Experience
Grade Mode: Credit/No Credit Grade Only

CIDH 607 Dev & Remed of Rdg/Writ/Disc **3 Credit hours**
Pre-req: CIDH 505.
Grade Mode: Normal Grading Mode

Curriculum Instruction Educational Computing

CIEC 534 Appli Software Class Curr Area **3 Credit hours**
Offers hands-on experience using applications software (databases, multimedia, spreadsheets, word processing) and explores a range of related topics for schools, including state/national standards, current trends/issues, Internet/communications technologies, and hardware accessories.
Grade Mode: Normal Grading Mode

CIEC 560 Staff Development **1-4 Credit hours**
Courses and activities designed to meet the inservice needs of public school personnel. Credit in these courses may be used for certificate renewal and salary upgrades if approved but may not be used for degree programs. CR/NC grading.
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

CIEC 561 Staff Development **1-4 Credit hours**
Courses and activities designed to meet the inservice needs of public school personnel. Credit in these courses may be used for certificate renewal and salary upgrades if approved, but may not be used for degree programs. CR/NC grading.
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

CIEC 562 Staff Development **1-4 Credit hours**
Courses and activities designed to meet the inservice needs of public school personnel. Credit in these courses may be used for certificate renewal and salary upgrades if approved but may not be used for degree programs. CR/NC grading.
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

CIEC 563 Staff Development **1-4 Credit hours**
Courses and activities designed to meet the inservice needs of public school personnel. Credit in these courses may be used for certificate renewal and salary upgrades if approved but may not be used for degree programs. CR/NC grading.
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

CIEC 564 Staff Development **1-4 Credit hours**
Courses and activities designed to meet the inservice needs of public school personnel. Credit in these courses may be used for certificate renewal and salary upgrades if approved but may not be used for degree programs. CR/NC grading.
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

CIEC 580 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CIEC 581 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CIEC 582 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CIEC 583 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CIEC 585 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CIEC 586 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CIEC 587 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CIEC 588 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CIEC 591 Workshop **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CIEC 592 Workshop **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CIEC 593 Workshop **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CIEC 594 Workshop **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CIEC 600 Instructional Design & Tech **3 Credit hours**
An analysis of current systems of educational computing based on models of instruction, learning modalities, and desired learning outcomes. (PR: CIEC 534 or equivalent or consent).
Grade Mode: Normal Grading Mode

CIEC 610 Local Area Net/Telecom in Sch **3 Credit hours**
A hands-on approach to managing and using local area networks and telecommunications to meet the instructional needs of the school. (PR: CIEC 534 or equivalent or censent)
Grade Mode: Normal Grading Mode

CIEC 615 Online Course Devel/Delivery **3 Credit hours**
This course offers participates the opportunity to explore strategies and issues related to the development and delivery of online courses.
Grade Mode: Normal Grading Mode

CIEC 620 Software Eval & Selection **3 Credit hours**
In-depth evaluation of software based on studentdeveloped criteria. (PR: CIEC 600 or equivalent)
Grade Mode: Normal Grading Mode

CIEC 625 Exploring AI in Education **3 Credit hours**
Provides foundational knowledge and practical, ethical applications of Generative Artificial Intelligence for educators from preschool through higher education. Covers use of AI in assessment, teaching, learning, and various educational tasks.
Grade Mode: Normal Grading Mode

CIEC 630 Authoring Systems & Multimedia **3 Credit hours**
Explores multimedia design as process and product while providing hands-on experience using authoring systems for planning, creating, editing, and publishing text, graphics/images, animations, audio, video and interactive projects.
Grade Mode: Normal Grading Mode

CIEC 635 Using Internet in Classroom **3 Credit hours**
This course provides an introduction to the Internet, with an emphasis on the World Wide Web and its potential uses for teaching and learning.
Grade Mode: Normal Grading Mode

CIEC 660 Computers in Instruction **3 Credit hours**
This course is designed for inservice teachers who are familiar with the "BASIC programming" language and who wants to learn how the microcomputer can be utilized in a content area. (PR: CI 530)
Grade Mode: Normal Grading Mode

CIEC 699 Final Project in Curr Area **3 Credit hours**
A final project related to the student's curriculum area which demonstrates the ability to design and implement a computer-based curriculum application. (PR: CIEC 630 or equivalent)
Grade Mode: Normal Grading Mode

CIEC 700 Technology and Curriculum **3 Credit hours**
This course provides an overview of current issues related to technology in education while also providing participants with the opportunity to improve personal technology skills and use.
Grade Mode: Normal Grading Mode

Curriculum & Instruction Literacy Education

CIRG 509 Rdg Recovery Theor Concerns **6 Credit hours**
Grade Mode: Normal Grading Mode

CIRG 560 Staff Development **1-4 Credit hours**
Courses and activities designed to meet the inservice needs of public school personnel. Credit in these courses may be used for renewal and salary upgrades if approved, but may not be used for degree programs. CR\NC grading.
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

CIRG 561 Staff Development **1-4 Credit hours**
Courses and activities designed to meet the inservice needs of public school personnel. Credit in these courses may be used for certificate renewal and salary upgrades if approved but may not be used for degree programs. CR\NC grading.
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

CIRG 562 Staff Development **1-4 Credit hours**
Courses and activities designed to meet the inservice needs of public school personnel. Credit in these courses may be used for certificate renewal and salary upgrades if approved but may not be used for degree programs. CR\NC grading.
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

CIRG 563 Staff Development **1-4 Credit hours**
Courses and activities designed to meet the inservice needs of public school personnel. Credit in these courses may be used for certificate renewal and salary upgrades if approved but may not be used for degree programs. CR\NC grading.
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

CIRG 564 Staff Development **1-4 Credit hours**
Courses and activities designed to meet the inservice needs of public school personnel. Credit in these courses may be used for certificate renewal and salary upgrades if approved but may not be used for degree programs. CR\NC grading.
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

CIRG 580 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CIRG 581 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CIRG 582 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CIRG 583 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CIRG 585 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CIRG 586 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CIRG 587 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CIRG 588 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CIRG 601 Prof Guid Lit Spec **3 Credit hours**
Professional guidance for the Literacy Specialist is an elective course for candidates in the Master's in Reading Education. It supports the program's assessment
Grade Mode: Credit/No Credit Grade Only

CIRG 610 Multimodal Literacy **3 Credit hours**
This graduate class examines the theories, processes, and strategies of multi-modal classroom literacy. Intended for literacy specialists, the course investigates relevant theory, research, and practical applications to classroom literacy.
Grade Mode: Normal Grading Mode

CIRG 613 Children's Literature **3 Credit hours**
An examination of teaching methods and of children's literature that are conductive to promoting permanent interests, skills, and interests in reading for ECE and MCE.
Grade Mode: Normal Grading Mode

CIRG 614 Rdg 9-Adult Lit Skill Dev **3 Credit hours**
Analysis of the roles of the teacher in developing a reading program for the late adolescent and adult. The utilization of children's literature as a medium for bridging the content fields with the process of reading will be a major concept that will be utilized.
Grade Mode: Normal Grading Mode

CIRG 615 Writing in Literacy Curriculum **3 Credit hours**
Examine, develop, implement and evaluate traditional and electronic writing within a balanced literacy framework.
Grade Mode: Normal Grading Mode

CIRG 616 Lang Structures **3 Credit hours**
This graduate class examines an approach to spelling instruction based on an understanding of English orthography and the way students develop as sellers, readers, and writers.
Grade Mode: Normal Grading Mode

CIRG 621 Curr Issues & Prob Reading **3 Credit hours**
A seminar course especially designed to explore problems and issues in reading, K-12. Professional literature, empirical research, and practical experience will be used to identify problems and solutions. (PR: CIRG 643)
Pre-req: CIRG 615 with a minimum grade of C and CIRG 622 with a minimum grade of C and CIRG 637 with a minimum grade of C and CIRG 644 with a minimum grade of C and CIRG 653 with a minimum grade of C and CIRG 636 with a minimum grade of C.
Grade Mode: Normal Grading Mode

CIRG 623 Lit Facilitator Pract **3 Credit hours**
Practicum experiences requiring demonstration of literacy leadership including demonstration teaching, classroom support. Of literacy instruction, and developing, implementing, and evaluating the literacy curriculum within the school setting.
Pre-req: CIRG 615 with a minimum grade of C and CIRG 622 with a minimum grade of C and CIRG 637 with a minimum grade of C and CIRG 644 with a minimum grade of C and CIRG 653 with a minimum grade of C.
Attributes: Onsite Learning Experience
Grade Mode: Normal Grading Mode

CIRG 636 Developmental Reading **3 Credit hours**
Principles and practices of teaching developmental reading.
Grade Mode: Normal Grading Mode

CIRG 637 Literacy Assessment **3 Credit hours**
Study and the causes of reading difficulties, devices and techniques, and remedial methods and materials. (PR: CIRG 636 and 644)
Grade Mode: Normal Grading Mode

CIRG 642 Special Needs in Reading **3 Credit hours**
Study of research findings, methodology and instructional materials for atypical learners, illiterate adults and others.
Pre-req: CIRG 654.
Grade Mode: Normal Grading Mode

CIRG 643 Tch Strug Readers Practicum **3 Credit hours**
Clinical experiences in the diagnosis and corrective treatment of reading disabilities. (PR: CIRG 654)
Pre-req: CIRG 654.
Attributes: Onsite Learning Experience
Grade Mode: Normal Grading Mode

CIRG 644 Literacy in the Content Area **3 Credit hours**
Principles underlying the teaching of reading in the content fields.
Grade Mode: Normal Grading Mode

CIRG 651 Prin of Family Literacy **3 Credit hours**
This course examines different family literacy programs and anchors the literacy needs of family members in what is know about linguistic, cognitive, and literacy development.
Grade Mode: Normal Grading Mode

CIRG 652 Develop/Eval Fam Lit Prog **3 Credit hours**
This is a development and evaluation course in family literacy intended for active practitioners.
Grade Mode: Normal Grading Mode

CIRG 653 Literacy Acquisition **3 Credit hours**
Literacy acquisition is a foundation course open to professionals whose interests require understanding of the process involved in becoming literate.
Grade Mode: Normal Grading Mode

CIRG 654 Aligning Assess with Instruct **3 Credit hours**
Experiences in analyzing diagnostic test results, preparing diagnostic reports, and selecting appropriate materials and procedures to meet specific reading needs. (PR: CIRG 637)
Pre-req: CIRG 615 with a minimum grade of C and CIRG 622 with a minimum grade of C and CIRG 637 with a minimum grade of C and CIRG 644 with a minimum grade of C and CIRG 653 with a minimum grade of C.
Grade Mode: Normal Grading Mode

CIRG 701 Seminar I **3 Credit hours**
An investigation of research in reading that has made a difference in education, pupil achievement in reading, the role of reading, and role of the reading specialist. (PR: Master's degree, consent of instructor)
Grade Mode: Normal Grading Mode

CIRG 702 Seminar II **3 Credit hours**
An examination of research that has the potential to bring about changes in reading education and school curriculum.
Grade Mode: Normal Grading Mode

CIRG 703 Reading Tests & Techniques **3 Credit hours**
An examination of research related to the development of reading and reading-related diagnostic procedures. A detailed study will be made of standardized tests, the Informal Reading Inventory (IRI) and other similar diagnostic measures and competency-based instruments.
Grade Mode: Normal Grading Mode

CIRG 704 Advanced Instructional Tech **3 Credit hours**
A study of advanced instructional techniques in reading. Attention will be given to such concepts as self-concept, intelligence, nature/nurture, interaction, perception, physiological differences, and exceptionalities.
Grade Mode: Normal Grading Mode

CIRG 705 Applied Research **3-6 Credit hours**
Planning and implementing a study investigating aspects of reading theory. The study will necessitate deriving empirical data under field conditions.
Grade Mode: Normal Grading Mode

CIRG 706 Applied Research **3-6 Credit hours**
Planning and implementing a study investigation aspects of reading theory. The study will necessitate deriving empirical data under field conditions.
Grade Mode: Normal Grading Mode

CIRG 707 Issues in Reading **3 Credit hours**
A review of trends and issues in reading education focusing on the complexity of the reading process.
Grade Mode: Normal Grading Mode

CIRG 708 Phil & Hist of Reading Educa **3 Credit hours**
A study of the philosophical foundation of current reading programs. This course will review the historical background and progress in reading education.
Grade Mode: Normal Grading Mode

CIRG 709 Inservice: Aspect of Rdng Ed **3 Credit hours**
A field-based course designed to study the theory, preparation, presentation, and evaluation of inservice education. Emphasis will be placed on the refinement of teacher education in specialized areas of the curriculum.
Attributes: Onsite Learning Experience
Grade Mode: Normal Grading Mode

CIRG 710 Independent Study **3 Credit hours**
Individualized study of advanced topics in reading.
Grade Mode: Normal Grading Mode

Curriculum & Instruction Math Education

CIME 500 Math for the Elem Teach I **3 Credit hours**
Systems of numeration, sets, relations, binary operations, decimal and other base systems, natural numbers, integers, rational numbers, and real numbers with emphasis on the algebraic structure.
Grade Mode: Normal Grading Mode

CIME 501 Math for the Elem Tchr II **3 Credit hours**
Continuation of CIME 500.
Grade Mode: Normal Grading Mode

CIME 555 Technical Math for Math Educa **3 Credit hours**
Specialized mathematical knowledge for teaching: An in-depth analysis of the foundations of mathematics: numbers and operations, ratio and proportion, and numbering systems, with emphasis on workplace applications and mathematical tools.
Grade Mode: Normal Grading Mode

CIME 556 Finite Math for Math Educa **3 Credit hours**
Specialized mathematical knowledge for teaching: A study of set theory; probability; data analysis; elements of discrete mathematics, such as combinatorics and graph theory; and the mathematics of finance.
Grade Mode: Normal Grading Mode

CIME 560 Staff Development **1-4 Credit hours**
Courses and activities designed to meet the inservice needs of public school personnel. Credit in these courses may be used for certificate renewal and salary upgrades if approved, but may not be used for degree programs. CR/NC grading.
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

CIME 561 Staff Development **1-4 Credit hours**
Courses and activities designed to meet the inservice needs of public school personnel. Credit in these courses may be used for certificate renewal and salary upgrades if approved, but may not be used for degree programs. CR/NC grading.
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

CIME 562 Staff Development **1-4 Credit hours**
Courses and activities designed to meet the inservice needs of public school personnel. Credit in these courses may be used for certificate renewal and salary upgrades if approved, but may not be used for degree programs. CR/NC grading.
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

CIME 563 Staff Development **1-4 Credit hours**
Courses and activities designed to meet the inservice needs of public school personnel. Credit in these courses may be used for certificate renewal and salary upgrades if approved, but may not be used for degree programs. CR/NC grading.
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

CIME 564 Staff Development **1-4 Credit hours**
Courses and activities designed to meet the inservice needs of public school personnel. Credit in these courses may be used for certificate renewal and salary upgrades if approved, but may not be used for degree programs. CR/NC grading.
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

CIME 580 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CIME 581 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CIME 582 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CIME 583 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CIME 584 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CIME 585 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CIME 586 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CIME 587 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CIME 588 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CIME 591 Workshop **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CIME 592 Workshop **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CIME 593 Workshop **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CIME 594 Workshop **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CIME 650 Algebra for Math Educator **3 Credit hours**
Specialized mathematical knowledge for teaching: An in-depth study of topics typically found in a college algebra course.
Grade Mode: Normal Grading Mode

CIME 657 Precalculus for Math Educa **3 Credit hours**
Specialized mathematical knowledge for teaching: A study of advanced algebraic structures and functions of change, including an introduction to calculus.
Grade Mode: Normal Grading Mode

CIME 658 Geometry for Math Educat **3 Credit hours**
Specialized mathematical knowledge for teaching: Basic concepts of logic and mathematical proofs. Topics include angle relationships, parallel, and perpendicular lines, circles, polygons, solids, triangles, elementary trigonometry, and use of geometry software.
Grade Mode: Normal Grading Mode

CIME 670 Teaching Mathematics **3 Credit hours**
Emphasis will be on planning for instruction based on how students learn mathematics, state or district standards, research on best practices, NCLB goals, and data from a variety of assessments.
Grade Mode: Normal Grading Mode

CIME 673 Elem Math Methds Practice K-6 **3 Credit hours**
Culmination course that provides a setting for examining research-based elementary math methods and leadership, and a supervised practicum teaching experience in an educational field-based environment.
Pre-req: CIME 500 with a minimum grade of C and CIME 501 with a minimum grade of C and CIME 555 with a minimum grade of C and CIME 650 with a minimum grade of C and CIME 658 with a minimum grade of C.
Attributes: Onsite Learning Experience
Grade Mode: Normal Grading Mode

CIME 675 Superv Field Prac/Math 5-8 **3 Credit hours**
Supervised practicum in which the student demonstrates and is assessed in mathematics teaching skills in a clinical setting in grades 5-9.
Attributes: Onsite Learning Experience
Grade Mode: Credit/No Credit Grade Only

CIME 677 Superv Field Pract/Math 5-12 **3 Credit hours**
Supervised practicum in which the student demonstrates and is assessed in mathematics teaching skills in a clinical setting in grades 9-12.
Attributes: Onsite Learning Experience
Grade Mode: Credit/No Credit Grade Only

Curriculum & Instruction Science Education

CISE 560 Staff Development **1-4 Credit hours**
Courses and activities designed to meet the inservice needs of public school personnel. Credit in these courses may be used for certificate renewal and salary upgrades if approved but may not be used for degree programs. CR\NC grading.
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

CISE 561 Staff Development **1-4 Credit hours**
Courses and activities designed to meet the inservice needs of public school personnel. Credit in these courses may be used for certificate renewal and salary upgrades if approved, but may not be used for degree programs. CR\NC grading.
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

CISE 562 Staff Development **1-4 Credit hours**
Courses and activities designed to meet the inservice needs of public school personnel. Credit in these courses may be used for certificate renewal and salary upgrades if approved but may not be used for degree programs. CR\NC grading.
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

CISE 563 Staff Development **1-4 Credit hours**
Courses and activities designed to meet the inservice needs of public school personnel. Credit in these courses may be used for certificate renewal and salary ungrades if approved, but may be used for degree programs. CR/NC grading.
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

CISE 564 Staff Development **1-4 Credit hours**
Courses and activities designed to meet inservice needs of public school personnel. Credit in these courses may be used for certificate renewal and salary upgrades if approved, but may not be used for degree programs. CR/NC grading.
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

CISE 570 Flora & Fauna K-9 **3 Credit hours**
A study of the flora, fauna, and physical geography of West Virginia. Field-based experiences will lead to a greater understanding of the forces that shaped Appalachia and flora and fauna that live here.
Grade Mode: Normal Grading Mode

CISE 571 Dev Thematic Sci Elem/Mdle Sch **3 Credit hours**
A study of the strategies and techniques needed to plan, implement and evaluate a thematic, coordinated, and integrated science program in the schools.
Grade Mode: Normal Grading Mode

CISE 572 Environ Ed Elem/Mdle Sch Tchr **3 Credit hours**
A study of man's interactions with the environment. Awareness, conservation, problem-solving and stressed using strategies and techniques appropriate for the elementary/middle school student.
Grade Mode: Normal Grading Mode

CISE 573 Chem for Elem/Middle School **3 Credit hours**
A study of the fundamental principles of chemistry focusing on developmentally appropriate methods, strategies and techniques to assist with concept development and attainment.
Grade Mode: Normal Grading Mode

CISE 574 Integrated Sci for Elem Sch **3 Credit hours**
Study an application of the concepts and activities included in an integrated science program for the elementary school.
Grade Mode: Normal Grading Mode

CISE 575 Integrated Sci/Middle School **3 Credit hours**
Study and applications of the concepts and activities included in an integrated science program for the middle school.
Grade Mode: Normal Grading Mode

CISE 576 Phy Wave Phen & Elect K-9 **3 Credit hours**
A study of the fundamental principals of physics focusing on wave phenomena and electricity for the elementary/ middle school teacher.
Grade Mode: Normal Grading Mode

CISE 577 Physics: Energy & Matter K-9 **3 Credit hours**
A study of the fundamental principles of physics focusing on energy and matter for elementary and middle school teachers.
Grade Mode: Normal Grading Mode

CISE 580 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CISE 581 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CISE 582 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CISE 583 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CISE 585 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CISE 586 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CISE 587 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CISE 588 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CISE 591 Workshop **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CISE 592 Workshop **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CISE 593 Workshop **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CISE 594 Workshop **1-4 Credit hours**
Grade Mode: Normal Grading Mode

Curriculum & Instruction Second Language

CISL 550 Second Language Acquisition **3 Credit hours**
This course examines current theories of second language acquisition and their implications for second language teaching and learning.
Grade Mode: Normal Grading Mode

CISL 551 Linguistics for ESL **3 Credit hours**
This course examines major linguistic theories on firstand second-language acquisition, emphasizing acquisition of English by non-native students in prekindergarten through twelfth grade.
Grade Mode: Normal Grading Mode

CISL 552 Intercultural Comm/ESL **3 Credit hours**
This courses focuses on the interrelationship of language and culture and includes analyses of world cultures, with literature and the arts as bridges. Participants develop teaching materials for ESL classrooms.
Grade Mode: Normal Grading Mode

CISL 560 Staff Development **1-4 Credit hours**
Designed to meet the staff development needs of public school personnel. Credit may be used for certificate renewal and salary classification, if approved, but is not applicable to degree programs. CR/NC grading.
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

CISL 561 Staff Development **1-4 Credit hours**
Designed to meet the staff development needs of public school personnel. Credit may be used for certificate renewal and salary classification, if approved, but is not applicable to degree programs. CR/NC grading.
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

CISL 562 Staff Development **1-4 Credit hours**
Designed to meet the staff development needs of public school personnel. Credit may be used for certificate renewal and salary classification, if approved, but is not applicable to degree programs. CR/NC grading.
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

CISL 563 Staff Development **1-4 Credit hours**
Designed to meet the staff development needs of public school personnel. Credit may be used for certificate renewal and salary classification, if approved, but is not applicable to degree programs. CR/NC grading.
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

CISL 564 Staff Development **1-4 Credit hours**
Designed to meet the staff development needs of public school personnel. Credit may be used for certificate renewal and salary classification, if approved, but is not applicable to degree programs. CR/NC grading.
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

CISL 653 Methods ESL:Language **3 Credit hours**
Approaches to developing and assessing listening and speaking skills among second language populations at different stages in academic development, with an overview of traditional ESL methods.
Grade Mode: Normal Grading Mode

CISL 654 Methods ESL: Literacy **3 Credit hours**
Approaches to developing and assessing writing and reading skills among second language populations at different stages in academic development. Focus also includes literacy acquisition in content areas.
Grade Mode: Normal Grading Mode

CISL 655 Practicum for ESL **3 Credit hours**
A culminating practicum that involves participation in ESL curriculum evaluation and development.
Attributes: Onsite Learning Experience
Grade Mode: Credit/No Credit Grade Only

Curriculum Instruction Special Education

CISP 510 Instructional Prac/Excep Child **3 Credit hours**
An introductory course on applied planning and instructional approaches for the exceptional child. The course will introduce students to validated classroom practices for the beginning classroom teacher.
Grade Mode: Normal Grading Mode

CISP 520 Intro to Exceptional Child **3 Credit hours**
An introduction to the study of children who deviate from the average in mental, physical, and social characteristics, including a study of the characteristics of such children and the adaptation of educational procedures to their abilities and disabilities.
Grade Mode: Normal Grading Mode

CISP 521 Child w Exceptionalities **3 Credit hours**
Behavioral characteristics of children with exceptional development, dynamics of family-community interaction, and attitudes toward exceptional conditions. Implications for amelioration and educational planning. (Not for Special Education majors)
Grade Mode: Normal Grading Mode

CISP 526 Introduction to Gifted **3 Credit hours**
An overview of giftedness in children, definitions, etiology, observable characteristics and implications for educational agencies.
Grade Mode: Normal Grading Mode

CISP 527 Introduction to Autism **3 Credit hours**
This is an online course designed to survey current issues in the education and treatment of students with autism spectrum disorder (ASD). The course is the first in a two-course sequence that leads to the WV Autism Teaching Endorsement.
Grade Mode: Normal Grading Mode

CISP 529 Intro to Develop Disabilities **3 Credit hours**
Introduction to the characteristics and needs of young children with developmental disabilities addressing the physical, neurological, health, and environmental problems that impact atypical grown and development.
Grade Mode: Normal Grading Mode

CISP 535 Gen Spec Ed Programming **3 Credit hours**
Address the educational/curricular needs of students with mild learning problems in the categorical areas of mental retardation, behavior disorders, and specific learning disabilities. (PR: CI 320/520 and 433/533 or 423/523 or 424/524 or permission of instructor)
Grade Mode: Normal Grading Mode

CISP 553 Characteristics Methods ID **3 Credit hours**
Characteristics and effective instructional strategies appropriate for students with intellectual disabilities are considered. Emphasis will be on evidence and research based practices to address academic achievement and functional performance.
Pre-req: CISP 520.
Grade Mode: Normal Grading Mode

CISP 554 Families of Except Students **3 Credit hours**
Principles and information designed to give the student an understanding of the needs and rights of parents of exceptional children and techniques to involve parents successfully in their child's education.
Grade Mode: Normal Grading Mode

CISP 560 Staff Development **1-4 Credit hours**
Courses and activities designed to meet the inservice needs of public school personnel. Credit in these courses may be used for certificate renewal and salary upgrades if approved, but may not be used for degree programs. CR/NC grading.
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

CISP 561 Staff Development **1-4 Credit hours**
Courses and activities designed to meet the inservice needs of public school personnel. Credit in these courses may be used for certificate renewal and salary upgrades if approved, but may not be used for degree programs. CR/NC grading.
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

CISP 562 Staff Development **1-4 Credit hours**
Courses and activities designed to meet the inservice needs of public school personnel. Credit in these courses may be used for certificate renewal and salary upgrades if approved but may not be used for degree programs. CR/NC grading.
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

CISP 563 Staff Development **1-4 Credit hours**
Courses and activities designed to meet the inservice needs of public school personnel. Credit in these courses may be used for certificate renewal and salary upgrades if approved but may not be used for degree programs. CR/NC grading.
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

CISP 564 Staff Development **1-4 Credit hours**
Courses and activities designed to meet the inservice needs of public school personnel. Credit in these courses may be used for certificate renewal and salary upgrades if approved but may not be used for degree programs. CR/NC grading.
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

CISP 580 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CISP 581 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CISP 582 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CISP 583 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CISP 585 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CISP 586 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CISP 587 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CISP 588 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CISP 600 Grant Writing in Sp Ed **3 Credit hours**
A review of the federal and state guidelines for writing grants in Special Education. The priority areas of special education in which monies are currently available will also be examined.
Grade Mode: Normal Grading Mode

CISP 601 Psych Found Giftedness **3 Credit hours**
A study of measures used to identify the gifted and interpretation of results, psychological development of the gifted and psychological pressures, problems and adjustments strategies towards mental health in the gifted child.
Grade Mode: Normal Grading Mode

CISP 602 Education Gifted Children **3 Credit hours**
Educational models, identification techniques, teaching strategies and resources availiable for gifted children. Current trends in curriculum development for the gifted are also examined. (PR: CISP 526)
Grade Mode: Normal Grading Mode

CISP 603 Field Experience: Gifted **3 Credit hours**
Supervised experiences (one semester) in field work with children who exhibit potential giftedness.
Pre-req: CISP 602.
Attributes: Onsite Learning Experience
Grade Mode: Credit/No Credit Grade Only

CISP 604 Pract Emotional Disturb **3 Credit hours**
An initial participation and observation experience with children experienceing behavior problems. Course evolves around bi-weekly seminar and selected projects.
Attributes: Onsite Learning Experience
Grade Mode: Credit/No Credit Grade Only

CISP 606 Reading Strat Except Student **3 Credit hours**
This course examines research-strategies in reading instruction for students with high-incidence disabilities. This includes application of appropriate techniques in assessment, materials, and instructional strategies for adapted reading lessons.
Grade Mode: Normal Grading Mode

CISP 607 Math Strat Except Students **3 Credit hours**
Examines mathematics curriculum, methods, and adapted materials for students with mild to moderate disabilities in K-12 classrooms. Emphasizes strategies for accessing the general education curriculum, higher-level courses, and technology.
Grade Mode: Normal Grading Mode

CISP 611 Special Ed Research I **3 Credit hours**
The study of problems related to the area of exceptionality receiving emphasis in the student's degree program. (PR: CI 603, 649, 651 or 674, EDF 621 or 625)
Grade Mode: Normal Grading Mode

CISP 615 Special Ed Research II **3 Credit hours**
As a part of the requirements for this course, the student will submit a written, bound document, which will be added to the college library collection. (PR: CISP 611)
Pre-req: CISP 611.
Grade Mode: Normal Grading Mode

CISP 626 Diagnostic-Clin Practices **3 Credit hours**
Collaborative/consultative multi-disciplinary and curriculum-based assessment process and their use in developing appropriate interventions linking instruction to content standards and objectives.
Pre-req: CISP 520.
Grade Mode: Normal Grading Mode

CISP 627 Issues Special Education **3 Credit hours**
An in-depth look at current issues effecting all areas of special education as well as issues specific to each special education category.
Grade Mode: Normal Grading Mode

CISP 629 Special Education Seminar **3 Credit hours**
Research methods and current significant findings in special education. Guest speakers. Advanced special education students only.
Grade Mode: Normal Grading Mode

CISP 645 Characteristics Methods E/BD **3 Credit hours**
Recognition of socio-emotional issues, assessment of educational needs, establishment of programs to implement behavioral change and provision of necessary modification in educational programs to remediate learning and behavioral difficulites of children.
Grade Mode: Normal Grading Mode

CISP 646 Field Exper Learn Disability **3 Credit hours**
Field Experience (practicum) affords graduate students an oopportunity to demonstrate the skill-based competences required by CEC standards and to qualify for an LD teaching license.
Pre-req: (CI 523 or CISP 523) and (CI 647 or CISP 647).
Attributes: Onsite Learning Experience
Grade Mode: Credit/No Credit Grade Only

CISP 647 Char/Mthd Spec Lrn Disabilties **3 Credit hours**
Recognition of learning disabilities, assessment of educational needs, and understanding of evidence-based teaching techniques and interventions to promote success of students with or at-risk of learning disabilities.
Pre-req: CISP 520 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CISP 648 Field Exp Phys Handicap **3 Credit hours**
Attributes: Onsite Learning Experience
Grade Mode: Credit/No Credit Grade Only

CISP 649 Field Exper Emotional Distur **3 Credit hours**
Supervised field experiences (one semester) working with children who exhibit symptoms of emotional disturbancesbehavioral disorders. (PR: CISP 520 and CISP 624)
Pre-req: (CI 524 or CISP 524) and (CI 645 or CISP 645).
Attributes: Onsite Learning Experience
Grade Mode: Credit/No Credit Grade Only

CISP 650 Sp Ed Evaluate Teach Tech **3 Credit hours**
Educational assessment and diagnostic evaluation for remediation-amelioration; advanced course for providing understanding and utilization of evaluation, teacher assessment, and analysis for programming for exceptional individuals. (PR: CISPO 626)
Grade Mode: Normal Grading Mode

CISP 651 Field Exper Mental Impairment **3 Credit hours**
Field Experience (practicum) allows candidates to demonstrate skill-based competencies required by CEC and to qualify for a teaching license in mild/moderate Mental Impairment.
Pre-req: (CI 533 or CISP 533) and (CI 553 or CISP 553).
Attributes: Onsite Learning Experience
Grade Mode: Credit/No Credit Grade Only

CISP 652 Reading & Spell for Learn Dis **3 Credit hours**
An integrated, in-depth study of current LD reading and written language programs as determined by research studies. Tutoring of LD student is required.
Grade Mode: Normal Grading Mode

CISP 655 Field Exp: Multi-Categorical **3 Credit hours**
Field Experience (Practicum) affords graduate students an opportunity to demonstrate the skill-based competencies required by CEC Standards and to qualify for the multicategorical teaching license. (PR: CISP 553, 645, and 647)
Attributes: Onsite Learning Experience
Grade Mode: Credit/No Credit Grade Only

CISP 656 Field Experience Non Public **3 Credit hours**
Field experience in a non-public setting affords graduate students an opportunity to demonstrate the skill-based competencies required by CEC Standards and to qualify for the multi-categorial teaching license.
Pre-req: CISP 520 and CISP 553 and CISP 645 and CISP 647.
Grade Mode: Credit/No Credit Grade Only

CISP 660 Grant Writing Sp Ed **3 Credit hours**
Grade Mode: Normal Grading Mode

CISP 661 Intro Preschool Sp Ed **3 Credit hours**
An overview of early childhood special education programs including historical events, legislation, the population served, program models and components and current issues and trends.
Grade Mode: Normal Grading Mode

CISP 662 Instruct Char of Autism **3 Credit hours**
This online course provides information on evidence-based practices used to teach students with autism spectrum disorder (ASD). The course is the second in a two-course sequence that leads to the WV Autism Teaching Endorsement (PR: CISP 527).
Pre-req: CISP 527 with a minimum grade of C or CI 527 with a minimum grade of C or CISP 527E with a minimum grade of C.
Grade Mode: Normal Grading Mode

CISP 663 Dev Issue Preschool Disability **3 Credit hours**
An examination of the normal development of young children, the interrelated effects of disabilities in various areas of development, and strategies for intervention.
Grade Mode: Normal Grading Mode

CISP 664 Practicum in Autism **3 Credit hours**
This course contains two components: A competency-based practicum experience with students with autism spectrum disorders (ASD) and a seminar with regular discussion and readings on practical issues concerning the education of students with ASD.
Pre-req: CISP 527 or CI 527 and CISP 662 or CI 662.
Attributes: Onsite Learning Experience
Grade Mode: Normal Grading Mode

CISP 665 Assess Preschool Sp Ed **3 Credit hours**
An overview of issues in the identification, screening and assessment of young handicapped children, specific assessment techniques for working with families and interdisciplinary teams in the assessment process.
Grade Mode: Normal Grading Mode

CISP 666 Curr/Meth Preschool Sp Ed **3 Credit hours**
A review of curriculum development and methodology used to teach young children with handicaps. Evaluation techniques, program development and management, adaptation of materials and equipment and program models are presented.
Grade Mode: Normal Grading Mode

CISP 673 Clirical: Preschool Sp Ed **3 Credit hours**
Attributes: Onsite Learning Experience
Grade Mode: Credit/No Credit Grade Only

CISP 674 Field Exp: Preschool Sp Ed **3 Credit hours**
Clinical Preschool Special Education. 3 hrs. Emphasis on infants and toddlers identified as at-risk or with special needs. Clinical field observations of practitioners (developmental specialists/service coordinator) and service providers are required.
Attributes: Onsite Learning Experience
Grade Mode: Credit/No Credit Grade Only

Curriculum & Instruction Visually Impaired

CIVI 500 Intro Visual Impair **3 Credit hours**
introduction to educational programs and services for students with visual impairments, history, definitions, incidence and prevalence, development, psychosocial aspects, service delivery models, issues, professionalism.
Grade Mode: Normal Grading Mode

CIVI 501 Reading/Writing Strat Vis Imp **3 Credit hours**
Knowledge and skills in reading and writing the literary braille code, writing with braillewriter and slate and stylus, proofreading, interlining, basic Nemeth mathematics code, basic textbook formatting, computer translation, overview of other braille codes.
Grade Mode: Normal Grading Mode

CIVI 502 Anat Phys Human Vis Sys **3 Credit hours**
Structure and function of the eye, development of the visual system, causes and implications of eye conditions, clinical and functional, vision assessments, environmental modifications, relationship to other disabilities, and neurological aspects of visual impairment.
Grade Mode: Normal Grading Mode

CIVI 503 Assess/Prog Plan Vis Impaired **3 Credit hours**
Strategies for designing and adapting instruction for students with visual impairments in academic programs, expanded core curriculum, principles of special methods, teaching literacy and other communication skills, formal and informal assessment strategies, early childhood intervention parent involvemnt, collaboration skills.
Grade Mode: Normal Grading Mode

CIVI 504 Assess/Plan Vis Imp Add'l Dis **3 Credit hours**
Strategies for designing specialized instruction for students with visual impairments who also have severe/ multiple disabilities, interaction of sensory disabilities with other disabilities, functional curricula, alternative communication and movility systems, collaboration with classroom teachers and other specialists.
Grade Mode: Normal Grading Mode

CIVI 505 Braille **3 Credit hours**
This course will provide the student with basic skills in literary braille transcription and codes. Students will acquire competence in reading and writing braille and the use of the Perkins braillewriter, slate and stylus, and Perky Duck Software. Techniques for braille instruction of school-aged students and techniques for pre-braille activities for younger children will also be taught.
Grade Mode: Normal Grading Mode

CIVI 580 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CIVI 581 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CIVI 582 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CIVI 583 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CIVI 585 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CIVI 586 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CIVI 587 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CIVI 588 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CIVI 600 Math Methods/Visual Impairment **3 Credit hours**
An exploration of scientifically-based instructional math research will be developed and applied to the visually impaired. Emphasis will be placed on Nemeth Code and linkage to content standards and objectives.
Pre-req: CIVI 500 and CIVI 501.
Grade Mode: Normal Grading Mode

CIVI 601 Practicum Vis Imp I **1-6 Credit hours**
Three hundred documented hours of supervised practicum experiences with students with visual impairments, including those with severe/multiple disabilities ranging from infancy to early adulthood.
Attributes: Onsite Learning Experience
Grade Mode: Satisfactory/Unsatisfactory

CIVI 602 Pract in Visual Imp II **3 Credit hours**
The graduate student will complete an advanced selection of experiences in clusive and residential settings in order to demonstrate competence as an entry-level teacher.
Attributes: Onsite Learning Experience
Grade Mode: Satisfactory/Unsatisfactory

CIVI 603 Orientation & Mobility Skills **3 Credit hours**
Grade Mode: Normal Grading Mode

Early Childhood Education

ECE 530 Preschool Curriculum/Methods **3 Credit hours**
Historical and contemporary curriculum and methods for preschool children with emphasis on current best practices.
Grade Mode: Normal Grading Mode

ECE 535 Adm Early Child Programs **3 Credit hours**
This course examines the administration and educational aspects of early childhood education programs. Classroom observation is required.
Grade Mode: Normal Grading Mode

Educational Foundations

EDF 502 Psy Mid Childhood Student **3 Credit hours**
A course in the study of developmental principals relating to the physical, cognitive, social, and moral development of the middle childhood student 10-14 years old.
Grade Mode: Normal Grading Mode

EDF 513 Human Growth Dev Birth-8 Yr **3 Credit hours**
This course examines the relationship between developmental principles in childhood and educational practice.
Grade Mode: Normal Grading Mode

EDF 514 Human Growth Dev Adolescence **3 Credit hours**
This course examines the relationship between developmental principles in adolescence and educational practice.
Grade Mode: Normal Grading Mode

EDF 515 History Modern Education **3 Credit hours**
Our debt to the ancient Hebrews, Greeks, and Romans. Emphasis also is placed upon the movements since the beginning of the Renaissance.
Grade Mode: Normal Grading Mode

EDF 537 MAT Level I Clinical Exper **0 Credit hours**
Thirty-five hours public school clinical experience in middle/secondary schools designed to provide an opportunity for MAT students to work with faculty, staff and students in a teaching environment. (CR: CI 515)
Co-req: CI 515
Attributes: Onsite Learning Experience
Grade Mode: Credit/No Credit Grade Only

EDF 580 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

EDF 581 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

EDF 582 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

EDF 583 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

EDF 585 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

EDF 586 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

EDF 587 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

EDF 588 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

EDF 610 Trends & Issues in Education **3 Credit hours**
An investigation of current trends and issues in education through extensive reading, research and discussion. Implications for schools, classrooms, and teachers are the focus of the course.
Grade Mode: Normal Grading Mode

EDF 612 Educational Evaluation **3 Credit hours**
A study of the fundamental skills needed to evaluate educational progress at the individual, classroom, program, and school levels.
Grade Mode: Normal Grading Mode

EDF 615 Hist of Education in US **3 Credit hours**
Development of public and private educational systems in the United States.
Grade Mode: Normal Grading Mode

EDF 616 Adv Studies Human Develop **3 Credit hours**
The nature of human growth and development from infancy to adulthood.
Grade Mode: Normal Grading Mode

EDF 617 Multiple Regression **3 Credit hours**
A first course in Multiple Regression Analysis and its application to educational research. (PR: EDF 517 or Equivalent)
Grade Mode: Normal Grading Mode

EDF 618 Multilevel Analysis **3 Credit hours**
An introduction to applied multilevel analysis and growth curve modeling for nested educational data. The nested data may have a repeated measures dependent variable.
Grade Mode: Normal Grading Mode

EDF 619 Educational Psychology **3 Credit hours**
Study of learning theories and their applications to teaching.
Grade Mode: Normal Grading Mode

EDF 620 Mixed Methods Research **3 Credit hours**
Integrates quantitative and qualitative approaches and applications to research, couching these models within developing theories for and approaches to mixed methods research in education and closely related fields.
Grade Mode: Normal Grading Mode

EDF 621 Educ Research & Writing **3 Credit hours**
Research methods and techniques and their application.
Grade Mode: Normal Grading Mode

EDF 622 Action Research in Education **3 Credit hours**
Study of action research as a systematic method carried out by practitioners to improve educational practice.
Grade Mode: Normal Grading Mode

EDF 625 Qualitative Research Educ **3 Credit hours**
Study of qualitative research methods: understanding historical and philosophical foundations of qualitative research and developing expertise in qualitative research strategies including participant observation, interviewing and inductive content analysis of data.
Grade Mode: Normal Grading Mode

EDF 630 Comparative Education **3 Credit hours**
The study of the origins, nature, scope, basic literature and methodology of comparative education.
Grade Mode: Normal Grading Mode

EDF 636 Advanced Classroom Assessment **3 Credit hours**
History, philosophy and advanced statistical methods for testing, measuring and evaluating pupil behavior are studied.
Grade Mode: Normal Grading Mode

EDF 637 MAT Level II Clinical Exper **0 Credit hours**
Seventy-five hour secondary public school experience provides opportunity for preservice, master's-level teachers to put theory into classroom practice through observation, participation, reflection, individual/small group teaching, and up-front classroom teaching. (PR: EDF 537 and CI 515)
Pre-req: EDF 537 with a minimum grade of C and CI 515 with a minimum grade of C.
Attributes: Onsite Learning Experience
Grade Mode: Credit/No Credit Grade Only

EDF 640 Literature **1-3 Credit hours**
A program of reading, either extensive or intensive, and reports on a group of outstanding conributions to education; readings selected with guidance of advisor. Only one registration for this course is permitted.
Grade Mode: Normal Grading Mode

EDF 641 Seminar **2-3 Credit hours**
A guided program of readings, reports and discussions. No student may register for this course a second time.
Grade Mode: Normal Grading Mode

EDF 660 Philosophy of Education **3 Credit hours**
Surveys basic philosophy schools and concepts and their application to educationsal practice.
Grade Mode: Normal Grading Mode

EDF 665 Sociology of Amer Schools **3 Credit hours**
American school organizational patterns interpreted sociologically; role of power and bureaucracy, social and cultural change, stratification and social mobility, and values; analysis of school rituals and ceremonies.
Grade Mode: Normal Grading Mode

EDF 676 Statistical Methods **3 Credit hours**
A foundation course in descriptive and inferential statistics as applied in education and the social sciences.
Grade Mode: Normal Grading Mode

EDF 677 MAT Level III Clinical Exper **3-9 Credit hours**
Culminating clinical experience through directed activity in a clinical setting for MAT/PBC student.
Pre-req: EDF 537 with a minimum grade of C and EDF 637 with a minimum grade of C.
Attributes: Onsite Learning Experience
Grade Mode: Credit/No Credit Grade Only

EDF 679 Problem Report **3 Credit hours**
The preparation of a written report on a research problem, experiment or field project in education. This report is not a thesis.
Grade Mode: Credit/No Credit Grade Only

EDF 681 Thesis **3-6 Credit hours**
May be taken for 3 hours of credit by students whose reports in 679 were excellent and are of such character as to warrant further research. Students completing 679 and 681 for a total of 6 hours may qualify for the master's degree by earning an additional 26 hours of credit. Students completing 681 must defend their thesis in an oral examination.
Attributes: Thesis
Grade Mode: Normal Grading Mode

EDF 703 Research Design **3 Credit hours**
The purpose of this doctoral research methods course is to prepare College of Education doctoral students to design and carry out research at the doctoral level (PR: Admission to EdD Program)
Grade Mode: Normal Grading Mode

EDF 711 Survey Research in Education **3 Credit hours**
Advanced research, theories, methods and procedures for conducting survey research in education.
Grade Mode: Normal Grading Mode

EDF 719 Intro to Doctoral Studies **3 Credit hours**
This course is designed to introduce students to the tasks and processes involved in the completion of the doctoral requirements (PR: Admission to the Cooperative Doctoral Program)
Grade Mode: Normal Grading Mode

EDF 725 Adv Qualitative Research **3 Credit hours**
Advanced study of selected topics in qualitative research. Emphasis on application of qualitative research knowledge and skills.
Grade Mode: Normal Grading Mode

EDF 776 Comp Analysis in Doctoral Res **3 Credit hours**
This course provides the development of computer-based skills and competencies for applying statistical concepts and procedures when conducting research. (PR: EDF 676 or similar)
Pre-req: EDF 676 with a minimum grade of C or EDF 517 with a minimum grade of C.
Grade Mode: Normal Grading Mode

Instructional Design and Technology

ITL 501 Libraries & the Learn Process **3 Credit hours**
The role of the school library in the learning process through instruction, collaboration and curriculum support. Study of information literacy, learning styles and models and assessment of lerning outcomes.
Grade Mode: Normal Grading Mode

ITL 502 Library Mat for Adolsc **3 Credit hours**
Course will focus on criteria for evaluating and selecting young adult materials for the purpose of developing and promoting a school library media collection.
Co-req: ITL 504
Grade Mode: Normal Grading Mode

ITL 504 Library Mat for Children **3 Credit hours**
Addresses selection of material(s) for children in the school library; highlights & addresses strategies to fill curriculum gaps through collection development & curation.
Co-req: ITL 502
Grade Mode: Normal Grading Mode

ITL 560 Professional Development **1-4 Credit hours**
Course designed to meet the specific inservice needs of public school teachers, media personnel, and librarians. Credit may be used for certificate renewal and salary upgrading but not for degree programs.
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

ITL 561 Professional Development **1-4 Credit hours**
Sourse designed to meet the specific inservice needs of public school teachers, media personnel, and librarians. Credit may be used for certificate renewal and salary upgrading but not for degree programs.
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

ITL 562 Professional Development **1-4 Credit hours**
Sourse designed to meet the specific inservice needs of public school teachers, media personnel, and librarians. Credit may be used for certificate renewal and salary upgrading but not for degree programs.
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

ITL 563 Professional Development **1-4 Credit hours**
Sourse designed to meet the specific inservice needs of public school teachers, media personnel, and librarians. Credit may by used for certificate renewal and salary upgrading but not for degree programs.
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

ITL 580 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ITL 581 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ITL 582 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ITL 583 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ITL 585 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ITL 586 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ITL 587 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ITL 588 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ITL 591 Workshop **1-4 Credit hours**
Workshop in selected areas of eductional media.
Grade Mode: Normal Grading Mode

ITL 592 Workshop **1-4 Credit hours**
Workshop in selected areas of educational media.
Grade Mode: Normal Grading Mode

ITL 593 Workshop **1-4 Credit hours**
Workshop in selected areas of educational media.
Grade Mode: Normal Grading Mode

ITL 594 Workshop **1-4 Credit hours**
Workshop in selected areas of educational media.
Grade Mode: Normal Grading Mode

ITL 625 Library Organiza & Admin **3 Credit hours**
Principles of administration for elementary and secondary school library media centers, including personnel, facilities, budgets, prgram planning and evaluation, publicity and public relations, audiovisual equipment and materials, computer hardware and software, and methods and matericals for teaching library skills.
Grade Mode: Normal Grading Mode

ITL 627 Cataloging & Reference **3 Credit hours**
This course is a study of cataloging for the school library professional and the basic reference services for school libraries. Emphasis is on MARC records, circulation software, materials evaluation, the reference interview, and research strategies.
Grade Mode: Normal Grading Mode

ITL 631 Technology and the Library **3 Credit hours**
An introduction to the function, management, and the issues of computer and non-computer technology in the library. Students learn to use technology as an educational tool in the classroom.
Grade Mode: Normal Grading Mode

ITL 641 Seminar **3 Credit hours**
Supervised program of readings, reports, and individual and group projects.
Grade Mode: Normal Grading Mode

ITL 650 Library Practice **1-3 Credit hours**
Experience in the application of techniques of library service, adapted as far as possible to the student's needs.
Attributes: Onsite Learning Experience
Grade Mode: Credit/No Credit Grade Only

Leadership Studies

LS 510 Administrative Leadership **3 Credit hours**
Administrative Leadership prepares leaders for school and district positions by providing the knowledge and skills to support every student's learning and development through fiscal management, resource allocation, facility utilization and maintenance, and using information systems.
Attributes: Onsite Learning Experience
Grade Mode: Normal Grading Mode

LS 515 Curric and Instr Leadership **3 Credit hours**
The development and/or upgrading of supervisory practices in the areas of instructional leadership, instructional program development, instructional strategies, implementation and evaluation, and human relations.
Grade Mode: Normal Grading Mode

LS 520 Admin Elem Mdle & Sec Schools **3 Credit hours**
An investigation of the effects of the unique physical, social, mental, and moral characteristics of pre, early, and adolescent children on educational processes, organizations, and personnel.
Grade Mode: Normal Grading Mode

LS 530 Human Rel Skills for Leaders **3 Credit hours**
This course assesses and develops students' knowledge and skills in interpersonal relations and ethical practices. It provides structured experiences in group processes, verbal and non-verbal communications leadership styles, and team building.
Grade Mode: Normal Grading Mode

LS 550 Schools as Systems **3 Credit hours**
Assesses and develops student's knowledge and skills in change strategies, school cultures, systems theory, and understanding of the school in relation to other systems, agencies, and organizations.
Grade Mode: Normal Grading Mode

LS 558 School Law and the Teacher **3 Credit hours**
Grade Mode: Normal Grading Mode

LS 561 Professional Development **1-4 Credit hours**
These courses and activities are designed to meet the specific in-service needs of public school administrators. Credit in these courses may be used for certificate renewal and salary upgrading but not in degree programs.
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

LS 562 Professional Development **1-4 Credit hours**
These courses and activities are designed to meet the specific in-service needs of public school administrators. Credit in these courses may be used for certificate renewal and salary upgrading but not in degree programs.
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

LS 563 Staff Development **1-4 Credit hours**
These courses and activities are designed to meet the specific in-service needs of public school administrators. Credit in these courses may be used for certificate renewal and salary upgrading but not in degree programs.
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

LS 580 Special Topics in Leadership **1-9 Credit hours**
To provide the master's level student an opportunity to examine selected issues in leadership and to apply their findings to the field of study.
Grade Mode: Normal Grading Mode

LS 585 Independent Study **1-4 Credit hours**
Approval of Program Director and Permission of chair. Student must have a GPA of 3.0 to take class.
Grade Mode: Normal Grading Mode

LS 586 Independent Study **1-4 Credit hours**
Approval of Program Director and Permission of chair. Student must have a GPA of 3.0 to take class.
Grade Mode: Normal Grading Mode

LS 587 Independent Study **1-4 Credit hours**
Approval of Program Director and Permission of chair. Student must have a GPA of 3.0 to take class.
Grade Mode: Normal Grading Mode

LS 588 Independent Study **1-4 Credit hours**
Approval of Program Director and Permission of chair. Student must have a GPA of 3.0 to take class.
Grade Mode: Normal Grading Mode

LS 600 School Personnel Administra **3 Credit hours**
This course offers an examination of personnel functions including recruitment, selection, orientation, evaluation, and retention with particular emphasis on staff development.
Grade Mode: Normal Grading Mode

LS 604 CTE Leadership Studies I **3 Credit hours**
Leadership preparation for career and technical education programs located at technical centers and/or high schools. Students will study career and technical education policies, funding sources, and accountability within Simulated Workplace.
Grade Mode: Normal Grading Mode

LS 606 Plan Res & Eval for Sch Lead **3 Credit hours**
This course is designed to avail potential school administrators with an understanding of planning strategies, academic research, action research, and program evaluation methods, with the intent of their being able to write a cogent, data-based school improvement plan.
Grade Mode: Normal Grading Mode

LS 608 CTE Leadership Studies II **3 Credit hours**
Leadership preparation for career and technical education programs located at technical centers and/or high schools. Students will study career/technical education initiatives, importance of advisory committees, and economics of Simulated Workplaces.
Pre-req: LS 604 with a minimum grade of D.
Grade Mode: Normal Grading Mode

LS 610 Leadership for Sch Improve **3 Credit hours**
Leadership preparation for developing and implementing a shared vision and strategic plans focused on teaching and learning, implementing change, applying leadership theory and acting with understanding of society's influences.
Attributes: Onsite Learning Experience
Grade Mode: Normal Grading Mode

LS 612 Educ Tech for Administrators **3 Credit hours**
This course addresses the role of the principal in the development and implementation of school curriculum. This includes developmentally appropriate curriculum design, special education curriculum and modifications, the integration of technology, and authentic assessment.
Grade Mode: Normal Grading Mode

LS 615 Leadership in Public Sector **3 Credit hours**
This course will enable public sector leaders to better understand the perspectives they bring to the setting, define and evaluate personal and organizational goals, and develop strategies to achieve shared goals.
Grade Mode: Normal Grading Mode

LS 616 Higher Ed Governance **3 Credit hours**
This course is designed to develop an understanding of the structure of governance of multi-campus public higher education systems.
Grade Mode: Normal Grading Mode

LS 617 Intro Stu Pers Adm/Higher Ed **3 Credit hours**
This course surveys the purpose and functions of student personnel administration in higher educational institutions and the administrative procedures developed to accomplish these purposes.
Grade Mode: Normal Grading Mode

LS 618 History of Higher Education **3 Credit hours**
This course will present a historical overview of the factors that influence the development of higher education in America.
Grade Mode: Normal Grading Mode

LS 621 Pub Policy Analysis Higher Ed **3 Credit hours**
This course will introduce students to the process of developing federal and state public policy for higher education and examine legislation related to governance, finance, and oversight.
Grade Mode: Normal Grading Mode

LS 625 Human Resources Management **3 Credit hours**
This course develops knowledge of the major functions and tasks necessary for the development of human resources.
Grade Mode: Normal Grading Mode

LS 626 Fundraising Management **3 Credit hours**
This course will provide students with an overview of the fundamentals of fundraising including such vehicles as major campaigns, donor research, management practices, and ethical issues.
Grade Mode: Normal Grading Mode

LS 628 Nonprofit & Public Sector Orgs **3 Credit hours**
Nonprofit & public sector organizations constitute a significant part of every community and this course is designed to examine the major leadership issues they encounter.
Grade Mode: Normal Grading Mode

LS 630 The School and the Community **3 Credit hours**
This course provides students the opportunity to study the concept of community, to examine relationship patterns, to explore the possibilities for combining the resources of the school and community in the interest of school improvement, and to evaluate communication strategies designed to enhance the school-community relationship.
Attributes: Onsite Learning Experience
Grade Mode: Normal Grading Mode

LS 632 Human Rel in Public Sec **3 Credit hours**
This course is designed to assist leaders in the public sector to establish and maintain positive relationships with the organization's staff and volunteers, as well as with its constituents.
Grade Mode: Normal Grading Mode

LS 633 Lead International Nonprofit **3 Credit hours**
This course will examine the structure, purpose and history of international nonprofit organizations. Also, included will be a study of public policy and the practice of philanthropy in countries other than the USA.
Grade Mode: Normal Grading Mode

LS 635 Organizational Theory **3 Credit hours**
This course analyzes leadership theories and their application to leadership and management in nonprofit and public sector organizations.
Grade Mode: Normal Grading Mode

LS 640 Legal Issues NPO & Public **3 Credit hours**
This course provides students with an overview of federal and state laws governing nonprofit and public sector organizations, current legal trends and legal issues affecting CEO's, staff, governing boards.
Grade Mode: Normal Grading Mode

LS 645 Comm Collaborative Plan Mgmt **3 Credit hours**
Students will be provided with the opportunity to anaylze the nature of collaboration among state, local, federal agencies, business, and community organizations to address an array of complex issues facing non-profit and public agencies. The importance of networking and social entrepreneurship are among other concepts that will be explored.
Grade Mode: Normal Grading Mode

LS 647 Adult & Continuing Educa **3 Credit hours**
This course develops an understanding of the principles, concepts, and processes involved in planning learning experiences for adults within the framework of higher education.
Grade Mode: Normal Grading Mode

LS 650 Internship-School Management 1 **3 Credit hours**
Grade Mode: Normal Grading Mode

LS 655 Externship **1-9 Credit hours**
This is a field-based course designed for practicing professionals.
Grade Mode: Normal Grading Mode

LS 660 Capstone: School Management **3 Credit hours**
Attributes: Onsite Learning Experience
Grade Mode: Normal Grading Mode

LS 661 Internship-Instr Supervision 2 **3 Credit hours**
Grade Mode: Normal Grading Mode

LS 675 Legal and Policy Issues **3 Credit hours**
This course examines the principal's role and responsibility related to law and administrative policy.
Attributes: Onsite Learning Experience
Grade Mode: Normal Grading Mode

LS 685 Capstone: Portfolio Assessment **3 Credit hours**
Training and assessment experiences for students seeking initial certification as a school principal.
Attributes: Onsite Learning Experience
Grade Mode: Normal Grading Mode

LS 690 Leadership Capstone Course **3 Credit hours**
This course represents a culminating experience and an opportunity to demonstrate a broad mastery of learning across the respective program curriculum.
Grade Mode: Normal Grading Mode

LS 691 The Attendance Director **3 Credit hours**
This course develops the administrative skills required for managing policies, programs, and activities related to the position of public school social worker or attendance director.
Attributes: Onsite Learning Experience
Grade Mode: Normal Grading Mode

LS 692 Capstone: School Social Serv **3 Credit hours**
This course provides pre-service training and assesment for students seeking licensure as a public school social worker/ attendance director.
Pre-req: LS 691 with a minimum grade of C.
Attributes: Onsite Learning Experience
Grade Mode: Normal Grading Mode

LS 693 Sch Law for Support Personnel **3 Credit hours**
This course provides the student with a working knowledge of school law and other legal matters as it pertains to the attendance director. The focus of this course is on those laws dealing with mandatory attendance and juvenile matters. (PR: Admission into the Social Services/Attendance Program)
Grade Mode: Normal Grading Mode

LS 700 Superintendency **3 Credit hours**
This course examines the roles, relationships, behaviors and competencies which characterize school superintendents ans their staffs.
Grade Mode: Normal Grading Mode

LS 701 Internship-Begng Supertndncy **3 Credit hours**
Grade Mode: Normal Grading Mode

LS 704 LDSH SP POP **3 Credit hours**
This course identifies and explains the laws and policies that service students with special needs. School leaders will learn to apply these laws to ensure they meet students' needs while making the best decisions for their school.
Grade Mode: Normal Grading Mode

LS 705 Administration Theory **3 Credit hours**
This course analyzes administrative theories and their application to organizational leadership and management.
Grade Mode: Normal Grading Mode

LS 707 Ethical Theory **3 Credit hours**
The course focuses on the primary ethical theories and the ethical resoning processes which are representative of each, providing students opportunities to analyze decisions against existing ethical models and reinforce or reform those decisions in light of moral principles.
Grade Mode: Normal Grading Mode

LS 708 Comparative Study Comm Coll **3 Credit hours**
An examination of community colleges in the U.S. and abroad including Canada, Europe, Asia, Africa, and South America. Areas for comparison include governance, finances, curriculum, faculty and students.
Grade Mode: Normal Grading Mode

LS 709 Leadership in a Global Crisis **3 Credit hours**
This course is designed to prepare students to successfully lead an organizations through a crisis such as a natural disaster, technological breach, terrorist attack or infrastructure failure. Integral to this is crisis preparedness planning and having systems in place that will enable an organization to recover from the aftermath of a crisis.
Grade Mode: Normal Grading Mode

LS 710 Principles of Leadership **3 Credit hours**
This course is a study of the characteristics and behaviors of leaders. Emphasis is on the development of understandings and abilities which will work in different situations.
Attributes: Online Course
Grade Mode: Normal Grading Mode

LS 711 School Leadership Practices 1 **3 Credit hours**
Grade Mode: Normal Grading Mode

LS 712 School Leadership Practices 2 **3 Credit hours**
Grade Mode: Normal Grading Mode

LS 714 Higher Ed Admin **3 Credit hours**
This course is a survey of higher education with attention to administrative functions at the campus and state levels.
Grade Mode: Normal Grading Mode

LS 715 Computer & School Management **3 Credit hours**
Grade Mode: Normal Grading Mode

LS 716 Higher Ed Governance **3 Credit hours**
This class will review different models for governing public higher education at a system level and will examine the changing nature of higher education.
Grade Mode: Normal Grading Mode

LS 717 Intro Stu Pers Adm/Higher Ed **3 Credit hours**
This course surveys the purpose and functions of student personnel administration in higher educational institutions and the administrative procedures developed to accomplish these purposes.
Grade Mode: Normal Grading Mode

LS 718 Hist of Higher Ed **3 Credit hours**
This course is designed to provide the student with an understanding of the historical development of American higher education. It will examine past and future issues that have or may affect higher education.
Grade Mode: Normal Grading Mode

LS 720 Financial Models in Education **3 Credit hours**
This course examines concepts in the financing and economics of education in multiple education environments.
Grade Mode: Normal Grading Mode

LS 724 Organizational Analysis **3 Credit hours**
This course is an interdisciplinary approach to the study of organizational structure, relationships, and functions focusing on problems and alternatives for solving them.
Grade Mode: Normal Grading Mode

LS 726 Institutional Adv in High Ed **3 Credit hours**
Students will understand the broad area of institutional advancement, including major campaigns, donor research, donor recognition programs, restricted gifts, and so forth.
Grade Mode: Normal Grading Mode

LS 730 Educational Facility Planning **3 Credit hours**
This course teaches the systematic collection and utilization of data in planning for educational facilities. (PR: Principal or supervisor certificate or consent)
Grade Mode: Normal Grading Mode

LS 735 Policy Studies **3 Credit hours**
This course focuses on current organizational policy issues and provides conceptual and analytical tools for their critical examination.
Grade Mode: Normal Grading Mode

LS 747 Admin of Comm Colleges **3 Credit hours**
An analysis of community college governance, structure, functions, and relationship with its respective community and local/state government.
Grade Mode: Normal Grading Mode

LS 755 Internship-Admin of Higher Ed **3 Credit hours**
This course provides a field experience in higher education administration. (PR: Consent)
Grade Mode: Normal Grading Mode

LS 756 Current Issues in Leadership **3 Credit hours**
The course focuses on current and emerging problems of leadership among varied organizational types.
Grade Mode: Normal Grading Mode

LS 760 Politics of Education **3 Credit hours**
This course explores the social process of governance in the public schools including higher education. The milieu of federal state and local inputs will be explored.
Grade Mode: Normal Grading Mode

LS 762 Higher Ed Politics **3 Credit hours**
This course is designed to make students familiar with the basic concepts and tools of politics. The course will apply these political concepts to higher education.
Grade Mode: Normal Grading Mode

LS 764 Adv Research I **3 Credit hours**
This class for doctoral candidates will develop a foundation in research methods, research ethics, and research skills.
Grade Mode: Credit/No Credit Grade Only

LS 765 Adv Res II in Lead Studies **3 Credit hours**
This is an advanced research course directed toward the preparation of a thesis or dissertation. (PR: Consent)
Pre-req: LS 764 with a minimum grade of C.
Attributes: Thesis
Grade Mode: Credit/No Credit Grade Only

LS 770 Practicum **3 Credit hours**
This is a highly individualized cooperative educational administration experience between the college and another public agency. (PR: Consent)
Grade Mode: Normal Grading Mode

LS 771 Capstone: District Lvl Leader **3 Credit hours**
This course provides candidates the opportunity to study and prepare for District Level Leadership.
Attributes: Onsite Learning Experience
Grade Mode: Normal Grading Mode

LS 772 School District Leadership 2 **3 Credit hours**
This is an individualized cooperative field experience in district level school administration. (PR: Consent)
Grade Mode: Normal Grading Mode

LS 775 Seminar **3 Credit hours**
This course is a concentrated analysis of current problems in educational administration. (PR: Consent)
Grade Mode: Normal Grading Mode

LS 780 Special Topics **1-6 Credit hours**
This course requires study, reading and research is an approved area of education and supervision. (PR: Consent)
Grade Mode: Normal Grading Mode

LS 785 Externship **1-9 Credit hours**
This is a field based program designed for practicing administrators. (PR: Consent)
Grade Mode: Normal Grading Mode

LS 787 Cont First Amendment Issues **3 Credit hours**
This course will examine contemporary first amendment issues as they relate to education in public education and higher education.
Grade Mode: Normal Grading Mode

LS 790 Dissertation Research **1-9 Credit hours**
Grade Mode: Normal Grading Mode

LS 792 MU Research Colloquium **3 Credit hours**
Grade Mode: Normal Grading Mode

LS 797 Dissertation Research **1-9 Credit hours**
Dissertation research is the purpose of this course. (PR: Consent)
Attributes: Thesis
Grade Mode: Credit/No Credit Grade Only

School Psychology

SPSY 523 Independent Research **1-3 Credit hours**
Course designed to provide the student with the opportunity to work with a school psychology program professor on a research problem mutually agreed upon in terms of a specific plan of study. (PR: Permission of the instructor)
Grade Mode: Normal Grading Mode

SPSY 601 Prof Comp I Schools **3 Credit hours**
This course is designed as an introduction to schools as organizations and systems.
Attributes: Onsite Learning Experience
Grade Mode: Normal Grading Mode

SPSY 603 Prof Comp II School Psych **3 Credit hours**
This course provides an opportunity to teach the historical roots of contemporary psychology and school psychology and to help students contemplate the future of school psychology. (PR: SPSY 601)
Pre-req: SPSY 601 with a minimum grade of C.
Grade Mode: Normal Grading Mode

SPSY 606 Adol Substance Abuse **3 Credit hours**
Substance abuse is a pervasive problem within our society. Mental Health professionals and educators require knowledge and skills in adolescent substance abuse prevention, intervention, and treatment to address this problem.
Grade Mode: Normal Grading Mode

SPSY 616 Typ & Atyp Child Dev **3 Credit hours**
This is a multicultural, reading and writing intensive course that presents information on typical and atypical human development.
Grade Mode: Normal Grading Mode

SPSY 617 Ind Svc I Consultation **3 Credit hours**
This course is an introductio nto the theory and practice of consultation and will prepare students to serve as consultants within public schools.
Attributes: Onsite Learning Experience
Grade Mode: Normal Grading Mode

SPSY 618 Dir Svc I Instruct & Bmod **3 Credit hours**
This course teaches the application of behavior modification principles to the classroom setting as well as the modification of instruction to meet the needs of atypical learners.
Attributes: Onsite Learning Experience
Grade Mode: Normal Grading Mode

SPSY 619 Dir Svc II-Ind Grp Csl **3 Credit hours**
This course is a direct interventions course focusing on individual and group therapy for children.
Grade Mode: Normal Grading Mode

SPSY 620 Ind Svc II Prevention **3 Credit hours**
This course is an introduction to the science and practice of primary prevention. Pre: SPSY 617.
Pre-req: SPSY 617.
Grade Mode: Normal Grading Mode

SPSY 621 Data-Based Decision I **3 Credit hours**
This course is a beginning problem-solving course designed to provide students with a variety of assessment methods they can use to start constructing their professional "tool Kit".
Grade Mode: Normal Grading Mode

SPSY 622 Data-Based Decision II **3 Credit hours**
This course is an intermediate problem-solving course designed to provide students with a variety of assessment measures to add to their professional "tool kit".
Grade Mode: Normal Grading Mode

SPSY 624 Data-Based Decision III **3 Credit hours**
Review of standard assessment instruments used in school psychology practice emphasizing those aspects of specialized testing consistant with diagnostic needs of the individual child or groups of children. (PR: SPSY 622)
Grade Mode: Normal Grading Mode

SPSY 674 Bio Bases School Psych **3 Credit hours**
Interactive and reading intensive course that uses both live class meetings and the WebCT format to present information on the biological foundations of school psychology.
Grade Mode: Normal Grading Mode

SPSY 675 Cognitive/Emo Bases Sch Psy **3 Credit hours**
SPSY 675 is a reading and writing intensive course that presents information of the psychological foundations of school psychology.
Attributes: Onsite Learning Experience
Grade Mode: Normal Grading Mode

SPSY 700 Special Topics **1-6 Credit hours**
Courses in specialized areas of school psychology on issues in the practice of school psychology. (PR: Permission of the instructor.)
Grade Mode: Normal Grading Mode

SPSY 701 Behavior Therapy **3 Credit hours**
Grade Mode: Normal Grading Mode

SPSY 710 Application of MTSS **3 Credit hours**
The focus of this course will be to integrate elements of consultation, assessment, and intervention into a comprehensive Multi-Tired System of Support for behavior and academics from the perspective of a school psychologist.
Pre-req: SPSY 621 with a minimum grade of C and SPSY 622 with a minimum grade of C.
Grade Mode: Normal Grading Mode

SPSY 720 Counseling With Youth Ad **3 Credit hours**
This is a course designed to help students improve their counseling skills with youth in schools by exploring and implementing the applied practices of the major theories of psychotherapy.
Pre-req: PSY 619 with a minimum grade of C.
Attributes: Onsite Learning Experience
Grade Mode: Normal Grading Mode

SPSY 738 Practicum I **3 Credit hours**
The initial practicum in school psychology is designed to provide a structured, experiential link between early coursework and practical experience. Pre: SPSY 601, SPSY 616, SPSY 621.
Pre-req: SPSY 621 and SPSY 616.
Attributes: Onsite Learning Experience
Grade Mode: Credit/No Credit Grade Only

SPSY 739 Practicum II **3 Credit hours**
The second practicum in school psychology is designed to provide a structured, experiental link between intermediate coursework and practical experience. Pre: SPSY 738.
Pre-req: SPSY 738.
Attributes: Onsite Learning Experience
Grade Mode: Credit/No Credit Grade Only

SPSY 740 Practicum III **1-6 Credit hours**
During this capstone experience, students will provide a full range of school psychological services in a multidisciplinary training setting supervised by credentialed school psychologists.
Grade Mode: Credit/No Credit Grade Only

SPSY 745 Internship in Sch Psych **1-12 Credit hours**
Attributes: Onsite Learning Experience
Grade Mode: Credit/No Credit Grade Only

SPSY 750 Ed S Thesis Research **3 Credit hours**
Development and defense of a research proposal examining a specific hypothesis in School Psychology. Analysis of data, written presentation in thesis form, and public defense are required.
Attributes: Thesis
Grade Mode: Credit/No Credit Grade Only

SPSY 751 Program Evaluation **3-12 Credit hours**
The course is designed to provide students with the fundamental skills to develop and implement evaluations of educational programs in the classroom, school, county or state.
Pre-req: PSY 517 with a minimum grade of C and SPSY 623 with a minimum grade of C.
Grade Mode: Credit/No Credit Grade Only

Adult and Continuing Education, M.S.

Program Description, M.S.

The Master of Science degree program in Adult and Continuing Education (ACE) is a field-based program designed to serve adult learners who may be employed on a full-time basis. The comprehensive program is intended for individuals who serve in instructional, training, leadership, or professional roles in human services areas of business, industry, government, community agencies, health care, or education. Students will learn to teach adults by gaining classroom knowledge, experiencing work-based activities, and participating in projects intended to develop the competencies utilized by professionals in the areas of Adult Education and Evaluation and Career and Technical Center Teaching.

The areas of emphasis in Adult and Continuing Education (ACE) allow a program to be tailored to meet the personal and professional needs of a broad spectrum of graduate students. The courses provide students with the opportunity to continue their graduate education in a flexible program through an online delivery system. The program offers two areas of emphasis;

1. Adult Education and Evaluation, and
2. Career and Technical Center Teaching

Students entering the program will build upon the academic background gained through their undergraduate education and professional employment. The program's coursework will provide the additional academic requirements, training, and leadership development necessary to complete a Master of Science degree. The student's plan of study will be created in consultation with his or her advisor, selecting an area of emphasis and planning the program.

Adult Education and Evaluation Area of Emphasis

The Adult Education and Evaluation area of emphasis serves professionals who are looking to expand their knowledge in the field, further their careers, and transition into teaching adults.

Adult Education and Evaluation serves individuals who work with adults in either instructional or administrative roles. Students are drawn from various areas such as human resource services that include manager and training specialists; adult literacy and remedial education teachers; and instructors and professor who teach in clasrooms at vocational schools, the college or university levels, or small groups of adults in a business setting. Other career areas may include students who work in government agencies

Career and Technical Center Area of Emphasis

The West Virginia Career and Technical Center Teaching certification program is restricted to currently employed teachers in a CTE Concentration/Endorsement program area in one of the comprehensive high schools, career tech centers, or multi-county centers.

Admission Requirements

Applicants should follow the admissions process described in this catalog or at the Graduate Admissions website: www.marshall.edu/graduate/how-to-apply-for-admission (https://www.marshall.edu/graduate/how-to-apply-for-admission/).

M.S., Area of Emphasis in Adult Education and Evaluation

In addition to Marshall University's requirements for admission, the following criteria must be met for admission to the Adult Education and Evaluation program:

- Students must apply online by completing and submitting the "Distance-Only" application, and all required credentials and fees must be on file in the Office of Graduate Admissions before an application can be processed. Visit www.marshall.edu/admissions/apply (http://www.marshall.edu/admissions/apply/) for additional information.
- Candidates must be in good academic standing, have a bachelor's degree from an accredited institution of higher learning, and have a minimum undergraduate cumulative Grade Point Average (GPA) of 2.75 on a 4.00 scale.

M.S., Area of Emphasis in Career and Technical Center Teaching

In addition to Marshall University's requirements for admission, the following criteria must be met for admission to the Career and Technical Center Teaching area of emphasis

- Students must apply online by completing and submitting the "Distance-Only" application, and all required credentials and fees must be on file in the Office of Graduate Admissions before an application can be processed. Visit www.marshall.edu/admissions/apply (http://www.marshall.edu/admissions/apply/) for additional information.
- Candidates must be in good academic standing, have a bachelor's degree from an accredited institution of higher learning and have a minimum undergraduate cumulative Grade Point Average (GPA) of 2.75 on a 4.0 scale.
- Candidates applying to the Career and Technical Center Teaching area of emphasis must be employed as a career and technical center teacher in the State of West Virginia

Graduation Requirements

Areas of Emphasis in Adult Education and Evaluation

A total of 30 credit hours is required for program completion for the Adult Education and Evaluation area of emphasis to satisfy the Master of Science degree requirements.

A Plan of Study will be sent to the student at the time of admission. Changes in required courses and the choice of any elective courses must be approved, and signed by the advisor on the office copy of the Plan of Study. The Plan of Study is a student's "blueprint" for completing graduation requirements.

The required GPA to complete the master's degree is 3.0 (*B*). Students must prepare an academic portfolio in the capstone course during their last semester of enrollment, and may take no more than one other 3-hour course in the semester that the capstone course is taken.

Area of Emphasis in Career and Technical Center Teaching

A total of 33 credit hours is required for program completion for the Career and Technical Center Teaching area of emphasis to satisfy the Master of Science degree requirements.

A Plan of Study will be sent to the student at the time of admission. Changes in required courses and the choice of any elective courses must be approved, and signed by the advisor on the office copy of the Plan of Study. The Plan of Study is a student's "blueprint" for completing graduation requirements.

The required GPA to complete the master's degree is 3.0 (*B*). Students must prepare an academic portfolio in the capstone course during their last semester of enrollment, and may take no more than one other 3-hour course in the semester that the capstone course is taken.

- Adult Education and Evaluation (p. 135)
- Career and Technical Center Teaching (p. 135)

Adult Education and Evaluation

Area of Emphasis for the M.S. in Adult and Continuing Education

Code	Title	Credit Hours
Required Core Courses		
ACE 603	Intro to Adult Ed & Learners	3
ACE 656	Instr Planning for Adults	3
ACE 671	Eval of Adult and Tech Educ	3
LS 632	Human Rel in Public Sec	3
General Courses		
ACE 600	Aspects of Train and Dev	3
ACE 618	Literature Adult Contin Educ	3
ACE 628	Adult Inst Envir & Pers Aspect	3
ACE 677	Research Method & Design ACE	3
ACE 689	Grant Proposal Writing	3
Capstone		
ACE 685	ACE Capstone	3
Total Credit Hours		**30**

Career and Technical Center Teaching

Area of Emphasis for the M.S. in Adult and Continuing Education

Course Requirements

Career and Technical Center Teaching

Code	Title	Credit Hours
Required Core Courses		
ACE 603	Intro to Adult Ed & Learners	3
ACE 656	Instr Planning for Adults	3
ACE 671	Eval of Adult and Tech Educ	3
LS 632	Human Rel in Public Sec	3
West Virginia Licensure Courses (18 hrs.)		
ACE 508	Teach Methods Career Tech Educ	3
ACE 511	Intro to Career and Tech Educ	3
ACE 524	Safety in Career Technical Ed	3
ACE 650	Career Educ Curriculum Dev	3
ACE 673	Assessment in Adult Tech	3
West Virginia Licensure Electives (choose one)		**3**
ACE 548	Appl Basic Skills Career Tech	
ACE 631	Survey Prac Computer Appl	
ACE 637	Indiv Computer Prog App	
Capstone		
ACE 685	ACE Capstone	3
Total Credit Hours		**33**

Applied Behavior Analysis, M.A.

Program Description

Applied Behavior Analysis (ABA) is the application of scientific principles taken from behavior analysis to socially significant behavior change. The goal of ABA is to improve learning and decrease challenging behavior, which may impact the individual's quality of life. ABA is an effective intervention for many problems and populations, including those with and without specific diagnoses, across settings.

The program consists of 33 hours of coursework which will allow students to obtain a Master of Arts Degree in ABA. Completion of the course work will allow students to qualify to sit for the exam to become a Board Certified Behavior Analyst (BCBA) and, where applicable, licensed to practice. Marshall University psychology, special education, counseling, school psychology, business, and social work students may want to seek this additional degree to enhance their employment options. Students pursuing graduate degrees related to rehabilitation services (e.g., communication disorders, counseling, nursing, and social work) or business may want to complete coursework in the area to learn more about evidence-based practices derived from ABA.

Admission Requirements

All applicants (including those seeking admission as professional development (certification only), should follow the admissions process described in this catalog or at the Graduate Admissions website at www.marshall.edu/graduate/admissions/how-to-apply-for-admission (http://www.marshall.edu/graduate/admissions/how-to-apply-for-admission/).

In addition to Marshall University's requirements for admission, applicants must have:

- An undergraduate Grade Point Average (GPA) of 2.80 or higher on a 4.0 scale, or a graduate degree from an accepted, accredited institution; and
- Two letters of recommendation from professionals who know the candidate well.

Students currently enrolled at Marshall University:

Students currently enrolled at Marshall University as a graduate student and who are in good academic standing may complete courses in ABA as electives by adding them to their *Plan of Study*.

Code	Title	Credit Hours
ABA 600	Basic Princ of Behavior	3
ABA 610	Theory Phil Behavioral Anyls	3
ABA 620	Research Meth Beh Analy	3
ABA 630	Beh Assess Intervention I	3
ABA 640	Beh Assess Interv II	3
ABA 650	Beh Change in Systems	3
ABA 660	Ethics in App Beh Analy	3
ABA 670	Sup Fieldwork in ABA	9

ABA 690	Research in App Beh Analy	3
Total Credit Hours		**33**

Counseling, Accelerated Graduate Degree

Counseling, Accelerated Graduate Degree

The MA in Counseling is an existing program offered in a hybrid format, using a combination of synchronous (real-time video/ virtual participation) courses and fully online asynchronous courses. Undergraduates accepted to the AGD program can begin taking master's level classes while still in the undergraduate program. These graduate credits can be used for both undergraduate and graduate level coursework and will help facilitate an easy and fast transition into the master's program. In order to be accepted into the AGD program, please see your undergraduate advisor, fill out the AGD Plan of Study, and apply for conditional admission in the MA in Counseling program. You can visit the program website to learn more: www.marshall.edu/coepd/counseling/ (https://www.marshall.edu/coepd/counseling/)

For admission to the AGD in Counseling program, students must meet the requirements established by the university and the program.

Eligibility Requirements for the MA in Counseling Accelerated Graduate Degree Program:

1. Must have completed at least 90 credit hours towards the bachelor's degree.
2. Must have at least a 3.3 undergraduate GPA.
3. Must meet the minimum admission requirements for the MA in Counseling Program.

How to Apply:

1. During their junior or senior year, eligible students should meet with their Undergraduate Advisor and the Chair or Program Director of the Counseling Department to develop an AGD plan of study. Any changes to the AGD plan of study must be approved by the undergraduate advisor and Chair or Program Director of the Counseling Department.
2. The student's acceptance into the AGD program is subject to the approval of the plan of study by the undergraduate advisor and Chair or Program Director of the Counseling Department.
3. After the AGD plan of study is approved, the student should apply for conditional admission into the MA in Counseling program.

Their application materials for the MA in Counseling degree program will be assessed for: (1) relevance of career goals, (2) aptitude for graduate-level study, (3) potential success in forming effective counseling relationships, and (4) respect for cultural differences.

Applicants that meet the admission criteria will be permitted to take graduate level courses and be conditionally admitted into the counseling program until the completion of the undergraduate degree.

Withdrawal from the AGD

A student may withdraw at any time from the AGD by informing the undergraduate advisor and the Chair or Program Director of the Counseling Department. A student's status will then revert to the standard undergraduate degree program. Any graduate hours earned must be approved for use in fulfillment of bachelor's degree requirements by the student's undergraduate dean.

From Undergraduate to Graduate Student

In order to be fully admitted to the MA in Counseling program, the student will need to complete their bachelor's degree and maintain a minimum GPA of 3.0 for all graduate credit toward their Master's degree program. Beginning with the semester after the student has earned the bachelor's degree and has been fully accepted into the master's degree program, the student is enrolled in the graduate program and is assessed tuition and fees at the graduate rate. All rules regarding graduate education will apply to the student once admitted into the master's degree program.

The graduation requirements for the AGD are the same as the existing MA in Counseling degree program.

In the fourth year of the undergraduate psychology degree program, the free elective offerings in the curriculum plan could be used for the graduate level courses. Students accepted into the AGD program can begin taking graduate coursework up to a maximum of 12 hours in place of elective undergraduate courses as outlined in the AGD Plan of Study. Students reduce the number of hours required to complete the bachelor's degree by the number of graduate hours they complete (up to a maximum of 12). Students would also be able to use the credits to reduce the number of 300-400 level courses required for graduation with their bachelor's degree. They must meet all the other degree requirements for their bachelor's degrees while they work on their master's degrees. Students would be ready to be fully admitted into the MA in Counseling graduate program after graduation by filling out an application to have their status changed to 'Graduate Student.'

The total time to complete the MA in Counseling degree will remain 7 years from the time of the first term classes are taken. Students in the AGD will be conditionally admitted into the graduate program until the completion of their undergraduate degree since the admissions criteria are the same.

Eligible Core Counseling Courses (can do one course or up to four COUN courses):

Code	Title	Credit Hours
COUN 574	Social & Cultural Found	3
COUN 600	Professional Orientation	3
COUN 602	Human Devel and Adjustment	3
COUN 609	Research in Counseling	3

The AGD Plan of Study will be individualized for each student.

Counseling, M.A.

Program Description

The Master of Arts degree in Counseling is a 60 credit hour planned program of study designed to meet the necessary competencies of professional counselors and satisfies the curricular requirements for counselor licensure in the state of West Virginia. There are currently two distinct Areas of Emphasis offered within the Counseling program: clinical mental health counseling and school counseling. Curricular elements consist of core courses required of all counseling majors

and emphasis courses specific to clinical mental health counseling and school counseling.

The Master of Arts degree in Counseling at Marshall University is accredited by the Council for Accreditation of Counseling and Related Educational Programs (CACREP) and built on the standards and codes of ethics of the American Counseling Association (ACA), the American Mental Health Counselors Association (AMHCA), and the American School Counselors Association (ASCA).

The mission of the Marshall University Counseling Department is to prepare aspiring counselors to serve their schools and communities as ethical, competent, and culturally sensitive practitioners.

Program graduates are eligible to apply for West Virginia licensure in counseling at the point they complete post-graduate supervision and pass a comprehensive licensure examination. Students wishing to pursue licensure in other states should consult with the specific state licensure board to determine the appropriate plan of study.

Admission Requirements

Applications for admission are accepted on a rolling basis for Fall, Spring, and Summer start dates. Admission to the counseling program is selective and competitive. Due to program capacity, applicants are advised to complete their application and verify that all supporting materials are received by Marshall University Graduate Admissions as soon as possible to ensure their preferred start date. Applications that are submitted too late to be considered for admission to their preferred start date may be rolled, once, to the next application term.

Admission decisions for all program applicants are rooted in the specific standards of the university and the minimum standards of the Counseling program. Students are admitted to an area of emphasis and must indicate their preferences during the admission application process.

Graduate Admissions

Applicants should follow the admissions process described in this catalog or at the Graduate Admissions website at www.marshall.edu/graduate/admissions/a (https://www.marshall.edu/graduate/admissions/how-to-apply-for-admission/)pply (http://www.marshall.edu/graduate/admissions/apply/).

Application Materials:

Each applicant is evaluated using the following criteria (all material should be submitted directly to Graduate Admissions):

1. A bachelor's degree from an accepted, accredited institution (official transcript required from degree-granting institution only).
2. A complete curriculum vitae or resume
3. Evidence of academic aptitude for graduate-level study by the following:
   a. A 2.75 overall Undergraduate GPA or higher on a 4.0 scale on the official final degree official transcript; or
   b. A Graduate GPA of 3.0 on any previously completed advanced degree; or
   c. Significant professional and life experiences that equate to academic aptitude.
4. International student applicants must demonstrate English proficiency according to university standards. See the Admissions section for information (https://catalog.marshall.edu/graduate/admissions/).
5. A personal statement that follows program guidelines. Refer to M.A. Counseling program web page for additional details: Counseling – College of Education and Professional Development (https://www.marshall.edu/coepd/counseling/)
6. Two completed recommendation forms, not letters of reference. These should be completed by professionals with knowledge of the applicant's suitability for graduate work (e.g., supervisors, former professors) in helping professions. Refer to M.A. Counseling program web page for the correct forms: Counseling – College of Education and Professional Development (https://www.marshall.edu/coepd/counseling/)

Admission decision recommendations are made by the academic unit's selection committee and include consideration of each applicant's (1) relevance of career goals, (2) aptitude for graduate-level study, (3) potential success in forming effective counseling relationships, and (4) respect for cultural differences.

Applicants may be admitted with full, conditional, or provisional status.

Conditional Admission

The Counseling program may admit applicants conditionally for one term, on a limited basis, at the discretion of the program. Status will be changed to full admission upon successful completion of the outstanding materials.

Provisional Admission

The Counseling program may admit applicants provisionally on a limited basis, at the discretion of the program. Status will be changed to full admission upon successful progression through the program's individual student assessment process.

Faculty will systematically review each student's development of the knowledge, skills, and dispositions necessary for the counseling profession, which will be used to facilitate successful retention and matriculation in the program or remediation and dismissal from the program when necessary.

Professional Development Admission

Applicants who wish to take courses for licensure, certification, or to be admitted to the certificate program (VoLT), but who do not intend to complete an entire degree program, need to complete the following guidelines for admission.

Licensure/Certification

Applicants who wish to take a limited number of courses to complete the requirements for licensure or certification as a Professional or School Counselor will submit the following materials:

Professional Counselor Professional Development Applications

Applicants who need to take graduate coursework to complete the education requirements for the LPC in West Virginia or a related degree in another state are invited to apply as Professional Development students (see Admission Classifications under the Admissions Information section in the Graduate Catalog for more information). These students will submit:

- an application
- an application fee
- an official transcript from the university where they completed their bachelor's degree
- an official transcript from the university where they completed their master's degree
- a personal statement that includes what courses they are being directed to take by the WVBEC or another state licensure board. Refer to M.A. Counseling program web page: Counseling – College of Education and Professional Development (https://www.marshall.edu/coepd/counseling/)

School Counseling Professional Development Applicants

Applicants who wish to obtain the School Counseling Certification after having completed a Master's in Mental Health Counseling are invited to apply as Professional Development students. However, the courses specified for completing the school certification will be determined by a transcript review completed by program faculty. The students will submit:

- an application
- an application fee
- an official transcript from the university where they completed their bachelor's degree
- an official transcript from the university where they completed their master's degree
- a personal statement that includes the School Counseling certification as their purpose for taking courses. Refer to M.A. Counseling program web page: Counseling – College of Education and Professional Development (https://www.marshall.edu/coepd/counseling/)

Graduate Certificate of Advanced Studies in Violence, Loss and Trauma Counseling VoLT certificate **(**p. 161**)**

The VoLT certificate program is facilitated by the Counseling Department, but has a distinct application process.

The VoLT certificate program accepts applicants who are: current students in the MA in Counseling degree program at Marshall, other master's level students at Marshall University, master's level students at other universities, and master's level practitioners seeking ongoing professional development.

Applicants who wish to pursue the VoLT certificate program should visit the Violence, Loss and Trauma Counseling VoLT certificate **(**p. 161**)** section of the catalogue for the specific details and admission requirements.

Graduation Requirements

Graduation is dependent on meeting all standards outlined by Marshall University, the College of Education and Professional Development, and the Counseling Department. The university standards are published in the *Graduate Catalog*. Students wishing to review these standards should review the catalog published the year of their admission to the program.

Counseling Program Standards

Faculty will systematically review each student's development of the knowledge, skills, and dispositions necessary for the counseling profession, which will be used to facilitate successful retention and matriculation in the program or remediation and dismissal from the program when necessary.

Graduation is dependent on:

1. Successful completion of an approved plan of study with a minimum of 60 semester credit hours with a 3.0 GPA.
2. Successful demonstration of knowledge, skills, and dispositions necessary for an entry-level counselor along with any required retention or remediation plans.
3. B or higher in COUN 608, 691, and 698.
4. No more than three (3) credits of Cs are able to be applied to meet graduation requirements. This means that students may use three (3) credits of *Cs* in Counseling Department courses to meet requirements of graduation. Note: no Cs will be accepted in COUN 608, 691, or 698.
5. Completion of a comprehensive exam.

All threats to your matriculation are complex and will be evaluated on a case-by-case basis. Failure to progress through the tiers of intervention may result in dismissal from the program. In cases of particularly severe or egregious concerns, especially those involving health and safety risks to oneself or others, an immediate recommendation for dismissal may be made. Additional examples that could warrant an immediate dismissal include, but are not limited to:

1. Threats to the health and safety of self/others.
2. Dismissal from a practicum/internship site.
3. Failure to complete retention and remediation plans if required.
4. C or lower in the same class two times.
5. Any two Ds.
6. F, NC, or U in any course in their plan of study.
7. Failure to respond to efforts for retention and remediation planning.
8. Violation of ethical codes, standards of conduct, or academic integrity.

Students dismissed from the program may not reapply to this program.

Program Requirements

It is the responsibility of all admitted students to meet with their advisors prior to the beginning of coursework. Each student must complete an advisor-approved Plan of Study. A minimum Grade Point Average of 3.0 in all degree courses is required prior to enrollment in the practicum, internship, and for graduation.

Course Delivery Format

All courses are offered in a hybrid format, using a combination of synchronous (real-time video/virtual participation) courses and fully online asynchronous courses. Please note that internship courses are specific to emphasis areas.

Curriculum

The Master of Arts degree in Counseling is a 60 credit hour planned program of study designed to meet the necessary competencies of professional and school counselors. The curricular elements consist of 45 credit hours of core courses required of all counseling students and

15 credit hours of emphasis courses specific to Clinical Mental Health Counseling or School Counseling.

Comprehensive Exam

All students will complete a comprehensive exam prior to graduation. Students must apply to sit for the exam no later than two (2) weeks prior to the exam date. Payment for the exam is expected when checking in on exam day. Students should plan to take the exam one semester prior to their expected final semester. Detailed information regarding this will be distributed to students each semester.

Plan of Study

The degree program requires 45 credit hours of core courses and 15 credit hours from a selected emphasis:

Code	Title	Credit Hours
Core Courses		
COUN 574	Social & Cultural Found	3
COUN 575	Prev & Treat of Addict	3
COUN 600	Professional Orientation	3
COUN 602	Human Devel and Adjustment	3
COUN 603	Counseling Theories	3
COUN 604	Group Coun & Tech	3
COUN 605	Theory Prac Human Appr	3
COUN 607	Coun Tech & Human Relat	3
COUN 609	Research in Counseling	3
COUN 631	Diag & Treatment Planning	3
COUN 632	Intro Mar/Coup & Fam Coun	3
COUN 606	Career & Lifestyle Develop	3
COUN 608	Practicum	3
Six credit hours of internship: Select based on Emphasis		6
COUN 691	Intern Mental Health Coun (Internship for Mental Health Counseling Emphasis)	
COUN 698	Internship in School Coun (Internship for School Counseling Emphasis)	
Area of Emphasis Courses		15
Total Credit Hours		**60**

Please check course prerequisites prior to registration.

All emphases (60 hours) satisfy the curricular requirements for professional counselor licensure in the State of West Virginia.

- Clinical Mental Health Counseling (p. 139)
- School Counseling, Emphasis (p. 139)

Clinical Mental Health Counseling

Course Requirements

Clinical Mental Health Counseling Area of Emphasis for the M.A. in Counseling

The Clinical Mental Health Counseling curriculum meets the West Virginia Board of Examiners in Counseling licensure standards.

Students in the Clinical Mental Health Counseling area of emphasis must meet licensure requirements established by the West Virginia Board of Examiners in Counseling.

Students not residing in West Virginia will need to consult with their state licensure/certification boards to explore their location-specific requirements; alterations to the matriculation requirements need to be requested, will be considered on an individual basis, and are not guaranteed. For example, some states might require a specific elective (e.g., psychopharmacology). If a student's state licensure and/or certification requirements differ from those in WV, they should consult with their faculty adviser to explore any potential accommodations.

In addition to the MA, Counseling core courses, students specializing in Clinical Mental Health Counseling must complete the following emphasis courses:

Code	Title	Credit Hours
COUN 555	Crisis Int & Conf Res	3
COUN 675	Leg/Ethical Issues for Coun	3
Advisor Approved Electives		9
Total Credit Hours		**15**

All COUN 500 and 600 level courses, except for COUN 683, 684, 685, 686, and COUN 687, are pre-approved electives for the plan of study. Students interested in taking COUN 683, 684, 685, 686, and COUN 687 should contact the coordinator of the Violence, Loss, and Trauma Counseling, Graduate Certificate. Any other elective options should be discussed with and approved by the faculty adviser prior to registration.

Total credit hours (including core) - 60

School Counseling, Emphasis

The School Counseling curriculum meets the West Virginia Department of Education certification standards. Students in the School Counseling area of emphasis must meet certification requirements established by the West Virginia Department of Education.

Students not residing in West Virginia will need to consult with their state licensure/certification boards to explore their location-specific requirements; alterations to the matriculation requirements need to be requested, will be considered on an individual basis, and are not guaranteed. If a student's state licensure and/or certification requirements differ from those in WV, they should consult with their faculty adviser to explore any potential accommodations.

The School Counseling area of emphasis also meets the education requirements established for the LPC credential by the West Virginia Board of Examiners in Counseling. Students not residing in West Virginia will need to consult with their state licensure/certification boards to explore their location-specific requirements.

In addition to the MA, Counseling core courses, students specializing in School Counseling must complete the following emphasis courses:

Code	Title	Credit Hours
COUN 672	Current Pract in School Coun	3
COUN 673	Coun Child Adol Parents	3

COUN 675	Leg/Ethical Issues for Coun	3
Advisor Approved Electives		6
Total Credit Hours		**15**

All COUN 500 and 600 level courses, except for COUN 683, 684, 685, 686, and COUN 687, are pre-approved electives for the plan of study. Students interested in taking COUN 683, 684, 685, 686, and COUN 687 should contact the coordinator of the Violence, Loss, and Trauma Counseling, Graduate Certificate. Any other elective options should be discussed with and approved by the faculty adviser prior to registration. Additionally, EDF 610 is a pre-approved elective for students in the school counseling area of emphasis.

Additional Testing Requirement:

In addition to the comprehensive exam required of all counseling students, students in the school counseling area of emphasis must pass the Praxis II: Specialty Area in School Counseling prior to taking COUN 698 Internship in School Counseling (6 hours).

Students not residing in West Virginia will need to consult with their state licensure/certification boards to explore their location-specific requirements; alterations to the matriculation requirements need to be requested, will be considered on an individual basis, and are not guaranteed. If a student's state licensure and/or certification requirements differ from those in WV, they should consult with their faculty adviser to explore any potential accommodations.

Students without a valid teaching certificate:

Students who do not hold a valid teaching certificate (non-education majors) are encouraged to take education courses as electives or in addition to their approved plan of study. Examples of relevant coursework includes but is not limited to: EDF 610: Trends and Issues in Education and 665 Sociology of Amer Schools.

Counseling, R.B.A. Accelerated Graduate Degree

- The MA in Counseling is an existing program offered in a hybrid format, using a combination of synchronous (real-time video/virtual participation) courses and fully online asynchronous courses. Undergraduates accepted to the AGD program can begin taking master's level classes while still in the undergraduate program. These graduate credits can be used for both undergraduate and graduate level coursework and will help facilitate an efficient transition into the master's program.#To be accepted into the AGD program, please see your undergraduate advisor, fill out the AGD Plan of Study (https://www.marshall.edu/graduate/current-students/forms-and-information/), meet with the program director or chair of the counseling department, and apply for conditional admission in the MA in Counseling program after 90 undergraduate credit hours have been earned (https://www.marshall.edu/admissions/apply/).
- **From Undergraduate to Graduate Student**
  Full admission to the MA, Counseling program is not guaranteed. To be fully admitted to the MA in Counseling program, the student will need to complete their bachelor's degree, maintain a minimum GPA of 3.0 for all graduate credit toward their Master's degree program, meet all admission criteria, and meet all other program performance standards.#Beginning with the semester after the student has earned the bachelor's degree and has been fully accepted into the master's degree program, the student is enrolled in the graduate program and is assessed tuition and fees at the graduate rate. Students will need to fill out an application to have their status changed to 'Graduate Student.'

  All rules regarding graduate education will apply to the student once admitted into the master's degree program.
- **Withdrawal from the AGD**
  A student may withdraw at any time from the AGD by informing the undergraduate advisor and the Chair or Program Director of the Counseling Department. A student's status will then revert to the standard undergraduate degree program. Any graduate hours earned must be approved for use in fulfillment of bachelor's degree requirements by the student's undergraduate dean.

Admission Requirements

For admission to the AGD in Counseling program, students must meet the requirements established by the university and the department, which can be found here: Counseling, M.A. < Marshall University (https://catalog.marshall.edu/graduate/programs-az/education-professional-development/counseling-ma/#admissionrequirementstext) and Counseling – College of Education and Professional Development (marshall.edu). (https://www.marshall.edu/coepd/counseling/) There are no course pre-requisites for admission in the AGD in Counseling. However, students interested in the AGD in Counseling should focus their professional development pathways and field experience in a manner that prepares them best for the AGD in Counseling.

Eligibility Requirements for the MA in Counseling Accelerated Graduate Degree Program:

There are no course pre-requisites for admission in the AGD in Counseling. However, students interested in the AGD in Counseling should focus their coursework in the following areas of emphasis: Psychology, Sociology, Comm Studies, Education, Anthropology, Criminal Justice, Women's studies, and Political Science.

To be eligible for the AGD in Counseling, students:

1. Can apply for the AGD in Counseling at any time, but to begin, they must have completed at least 90 credit hours towards the bachelor's degree. Must have at least a 3.3 overall cumulative undergraduate GPA.
2. Must meet the minimum admission requirements for the MA in Counseling Program, which can be found here: Counseling, M.A. < Marshall University (https://catalog.marshall.edu/graduate/programs-az/education-professional-development/counseling-ma/#admissionrequirementstext) and Counseling – College of Education and Professional Development (marshall.edu) (https://www.marshall.edu/coepd/counseling/)

How to Apply:

1. Eligible students should meet with their Undergraduate Advisor and the Chair or Program Director of the Counseling Department#to develop an AGD plan of study. Any changes to the AGD plan of study must be approved by the undergraduate advisor and Chair or Program Director of the Counseling Department. 2The student's acceptance into the AGD program is subject to the

approval of the plan of study by the undergraduate advisor and Chair or Program Director of the Counseling Department.
2. After the AGD plan of study is approved, the student should apply for conditional admission into the MA in Counseling program once they have completed 90 undergraduate credit hours towards their degree.
3. Their application materials for the MA in Counseling degree program will be assessed for: (1) relevance of career goals, (2) aptitude for graduate-level study, (3) potential success in forming effective counseling relationships, and (4) respect for cultural differences.

Applicants that meet the admission criteria will be permitted to take graduate level courses and be conditionally admitted into the counseling program until the completion of the undergraduate degree.

Programs offering an AGD option may allow up to 12 hours of graduate level coursework to also count towards an undergraduate degree.

Graduate coursework/credit will appear only on the graduate transcript, and graduate course grades will be calculated towards the graduate GPA.

Graduation Requirements

The graduation requirements for the AGD are the same as the existing MA in Counseling degree program.

Course Requirements

In the fourth year of the RBA program, the free elective offerings in the plan of study#could be used for the graduate level courses.#Students accepted into the AGD program can begin taking graduate coursework up to a maximum of 12 hours in place of upper division courses as outlined in the AGD Plan of Study. These courses will count towards the total degree hours needed for the RBA degree and the MA, Counseling degree.#They must meet all the other degree requirements for their bachelor's degrees while they work on their master's degrees.

Students in the AGD will be conditionally admitted into the graduate program until the completion of their undergraduate degree if they meet all performance standards for the MA, Counseling program. The total time to complete the MA in Counseling degree will remain 7 years from the time of the first term classes are taken.

- The AGD Plan of Study will be individualized for each student. Eligible Core Counseling Courses (can do one course or up to four COUN courses):

Code	Title	Credit Hours
COUN 574	Social & Cultural Found	3
COUN 600	Professional Orientation	3
COUN 602	Human Devel and Adjustment	3
COUN 609	Research in Counseling	3

Curriculum and Instruction, Ed.D.

Program Description

This program is designed to offer the opportunity to earn the Doctor of Education (Ed.D.) degree in Curriculum and Instruction. Coursework and other requirements will be met virtually. The mission of the doctoral program in education is to prepare practitioners to be reflective, ethical educators and researchers who contribute to the field of education. Program faculty are committed to creating a community of scholars through mentoring, engaging in collaborative research, and maintaining a focus on sound educational practices.

Admission Requirements

Acceptance into the Program

The decision to admit an applicant to doctoral work constitutes a significant commitment from the faculty of the department in the form of advising, teaching, chairing or serving on the student's committee, supporting portfolio opportunities, and guiding the successful completion of the dissertation. Admission to the doctoral program consists of multiple stages and the collective judgment of program faculty regarding the likelihood of applicant success across all phases of the degree program. These judgments take into account the applicant's academic achievements, professional experiences, oral and written communication, and other related capabilities. An applicant is not automatically admitted on the basis of meeting the minimum criteria.

An applicant must have earned at least a master's degree from an accepted, accredited institution in Curriculum and Instruction (CI), Educational Leadership, or a related field. A minimum graduate grade point average (GPA) of 3.0 is required to be considered for admission. The CI doctoral program may admit applicants conditionally at the program's discretion, when an applicant is currently enrolled in a required degree that will be completed prior to enrollment in CI doctoral courses (if all other admission criteria are met). Final, official degree transcripts must be received by the Marshall University (MU) Graduate Admissions Office before enrolling. The CI doctoral program does not offer provisional admission. Details of all admission requirements and other pertinent information can be found on the CI doctoral program website at www.marshall.edu/ciedd (https://www.marshall.edu/ciedd/).

Application and Admission Dates

The CI doctoral program utilizes a selective and competitive admission process that provides the opportunity for individuals to apply to the program year-round. Application deadlines for upcoming semesters are available on the CI doctoral program website included above. The program may offer a waitlist option, at its sole discretion, for select admission terms, depending on applicant qualifications and available space in the program. Please refer to the outline of admission requirements that follows.

Submission of the Application, Transcripts, Goal Statement, and Resume/Curriculum Vitae to the Marshall University Graduate Admissions Office

Application: The "Marshall University Graduate Application for Admission" must be completed and submitted. The online application is available at https://www.marshall.edu/admissions/graduate/.

Apply to the Doctor of Education (EdD) program in Curriculum and Instruction (Code: GEKO) as a **Distance-Only Graduate Student**.

Transcripts: Applicants must request that official transcripts, for all completed undergraduate and graduate degree programs, be sent by the degree-granting institution(s) to the MU Graduate Admissions Office.

Goal Statement: Applicants must develop an original goal statement that is written as an essay (500-750 words) that addresses the following topics and program goals:

- professional experiences that provide a basis for the applicant's contributions to the program;
- role of the Ed.D. in the applicant's professional growth plan;
- personal strengths that will contribute to the applicant's success in the Ed.D. program; and
- further information the applicant deems relevant to the admissions process and decision.

Resume or Curriculum Vitae: Applicants must provide a current resume or curriculum vitae that includes educational and professional experience, and **may** also include, **but is not limited to**, prior or current experience in areas such as:

- *Academic service:* educator, peer mentor, team leader, program coordinator, curriculum development team member or leader, etc.
- *Scholarly and/or research endeavors:* thesis publication, researcher, publication in a refereed journal, presenter or similar role, program/grant reviewer, etc.
- *Academic honors and/or awards:* National Board Certification, teacher of the year, recipient of other awards or honors, etc.
- *Other:* certifications, grant awards, etc.

Once these items are received, all application materials submitted up to this point (application, transcripts, goal statement, and resume/CV) will be forwarded from the Graduate Admissions Office to the CI Ed.D. Admissions Committee for review.

Completion of the Writing Prompt Assessment and Participation in an Interview

The CI Ed.D. Admissions Committee will invite the most qualified applicants to complete a scheduled electronic writing prompt assessment (at no additional cost to the applicant) and to participate in a virtual interview with program faculty.

Writing Prompt Assessment: Applicants will respond to a timed, online writing prompt that will be evaluated by the CI Ed.D. Admissions Committee. The online writing prompt will be evaluated using a rubric based on content quality, organization, evidence/examples, and mechanics.

Interview: Applicants will participate in a virtual interview with program faculty. Interviews are guided by a prepared set of questions designed to further gauge an applicant's readiness for doctoral studies. The interview also provides applicants the opportunity to meet program faculty and ask questions to learn more about the program. Being invited to the interview does not guarantee admission to the program.

The CI Ed.D. Admissions Committee will make final recommendations regarding admission and applicants will be notified as soon as possible.

Program Requirements

In addition to Marshall University's standards for good standing at the graduate level, candidates admitted to this Ed.D. Program must adhere to all policies and procedures outlined in the Curriculum & Instruction Ed.D. Handbook, including the expectations listed below:

- Attend and participate in the annual, virtual Doctoral Candidate/ Faculty Seminar and other activities scheduled for doctoral candidates.
- Identify a chairperson and work with the chairperson to identify committee members no later than the end of the fourth semester of enrollment.
- Meet at least once a semester with the advisor or chairperson to discuss plan of study progress, course registration, portfolio progress, and/or dissertation progress.
- Maintain continuous enrollment in the program from admission and first term of enrollment through graduation. Continuous enrollment and exceptions are defined in the handbook.
- Maintain a GPA of 3.25 in the doctoral program. Courses with a grade of "C" or below will not count toward the doctoral degree.
- Use the university-assigned resources (including email, distance learning, and virtual learning platforms) and regularly check for related program and course-related communications.
- Become involved in teaching, course development, research, publications and/or presentations with Marshall University faculty members to gain experience and meet portfolio requirements.
- Complete all dissertation requirements within three years of portfolio completion and admission to candidacy.
- Participate in hooding and commencement ceremonies upon completion of the degree.

Dismissal from the Program: If the candidate fails to maintain continuous enrollment or fails to show progress toward completion of the dissertation, and if the candidate has already utilized the inactive status request, the candidate may be subject to dismissal from the program.

- The candidate will be notified by registered mail of dismissal from the program and given the opportunity of due process as defined by the Marshall University Graduate Catalog in writing.
- The candidate will meet with the chair to defend continuation in the program.
  - If the appeal is granted, the candidate must submit in writing a plan to complete the program in a reasonable time.
  - If the appeal is denied, the candidate will be dismissed from the program. A hold will be placed on the candidate's ability to register for classes.

Plan of Study

Code	Title	Credit Hours
Core Courses (21 hours)		
CI 701	Curriculum Development	3
CI 702	Curriculum Theories	3
CI 703	Theory Models & Res. of Teach	3
CI 704	Soc Cult Pol Determ Curr	3
CIEC 700	Technology and Curriculum	3
CI 627	Program Plan and Evaluation	3

CI 735	Policy Studies	3
Area of Emphasis (9 hours)		
Committee -approved Area of Emphasis course		3
Committee -approved Area of Emphasis course		3
Committee -approved Area of Emphasis course		3
Research and Support Courses (27 hours)		
EDF 703	Research Design	3
EDF 676	Statistical Methods	3
EDF 625	Qualitative Research Educ	3
CI 677	Writing Publicatn Prof Ed	3
EDF 711	Survey Research in Education	3
EDF 725	Adv Qualitative Research	3
or EDF 776	Comp Analysis in Doctoral Res	
CI 797	Curr & Inst Dissertation Res (Complete a total of 9 Credit Hours)	9
Total Credit Hours		**57**

Early Childhood Education, Graduate Certificate

Program Description

The Graduate Certificate in Early Childhood Education may also be completed as an area of emphasis within the M.A. in Education. This certificate is designed for licensed elementary teachers seeking to add an endorsement in early education. The goal of this graduate certificate is to strengthen knowledge of early childhood pedagogy, research-based approaches and methods, and best practices for providing a holistic and integrated approach to support the education of young children. Satisfactory completion of the graduate certificate and state licensure requirements leads to the addition of PreK-K to an existing, current, regular, elementary education teaching license.

Teacher Licensure

A teacher with a valid West Virginia professional license who wants to add another teaching endorsement may do so by completing the course requirements, a performance assessment at the appropriate grade level, and, where specified, acceptable scores on the appropriate Praxis II test. Applicants from other states should verify eligibility for added endorsements through their state's Department of Education.

Admission Requirements

Prospective certificate-only students should apply for admission to Marshall University as a Certificate/Professional Development student and select, on the application form, the certificate they wish to pursue. Applicants must have:

- A baccalaureate degree from an accepted, accredited college or university with an undergraduate Grade Point Average (GPA) of 2.50 or higher on a 4.0 scale; **or**
- A master's degree from an accepted, regionally accredited institution.

Applicants may be asked to submit additional materials, such as documentation of current teacher licensure, before an admission decision is made.

Graduation Requirements

Twenty four credit hours are required for completion of the early childhood education graduate certificate, including a 3-hour clinical experience, and passing the Education of Young Children Praxis II Test.

Course Requirements

Code	Title	Credit Hours
CI 605	Trauma Res. Child Guid. in ECE	3
CI 630	Practicum Early Childhood Ed	3
CI 631	Early Child. Approach & Method	3
CI 632	Early Childhood Programs	3
CI 633	Adult Involve in Early Ed	3
CI 634	Lang/Cog Early Childhood	3
EDF 513	Human Growth Dev Birth-8 Yr	3
Choose one course from the following list:		3
CIEC 534	Appli Software Class Curr Area	
CIEC 600	Instructional Design & Tech	
CIEC 635	Using Internet in Classroom	
Total Credit Hours		**24**

Plan of Study

Fall		Credit Hours
CI 605	Trauma Res. Child Guid. in ECE	3
EDF 513	Human Growth Dev Birth-8 Yr	3
CI 630	Practicum Early Childhood Ed	1
	Credit Hours	**7**
Spring		
CI 631	Early Child. Approach & Method	3
CI 634	Lang/Cog Early Childhood	3
CI 630	Practicum Early Childhood Ed	1
	Credit Hours	**7**
Summer		
CI 632	Early Childhood Programs	3
CI 633	Adult Involve in Early Ed	3
CI 630	Practicum Early Childhood Ed	1
	Credit Hours	**7**
	Total Credit Hours	**21**

Students will also choose one of the following:

Code	Title	Credit Hours
Choose one course from the list below:		3
CIEC 534	Appli Software Class Curr Area (offered in Fall, Spring, Summer)	
CIEC 600	Instructional Design & Tech (only offered in the Fall)	
CIEC 635	Using Internet in Classroom (offered Fall, Spring, Summer)	

Total Credit Hours - 24

Education, M.A.

Teacher Licensure in West Virginia

With the exception of the Master of Arts in Teaching, the master's degree and professional development programs described herein *do not* result in *initial* licensure in West Virginia. Students seeking initial West Virginia licensure are advised to consult with their advisors regarding appropriate programs and courses.

Program Descriptions

The goal of the Education programs is to provide coordinated, sequential programs of study in an identified area of education. These programs provide educators, and those in education-related fields, four venues for graduate level professional development:

- Graduate certificate programs
- Master's degree (M.A.)
- Education Specialist degree (Ed.S.)
- Doctor of Education degree (Ed.D.)

In addition, graduate courses are available outside planned programs to allow professionals to augment their knowledge on topics of current interest or to meet individual needs.

The graduate certificate programs provide concentrated graduate-level study of a specialty. The master's degree offers a theoretical orientation with a focus on the application of theory to practice. The Education Specialist degree with an Area of Emphasis in Curriculum and Instruction is designed for post-master's professionals who are seeking a planned and structured program of study. Students may elect to be dually enrolled in the Education Specialist and Doctor of Education in Curriculum and Instruction. The Doctor of Education in Curriculum and Instruction serves the need of professionals who are seeking a terminal degree in the field. For more information on these post-master's degrees please see individual listings in this catalog.

Plan of Study

A Plan of Study approved by the student's advisor must be on file before the student registers for his or her 12th semester hour. The Plan of Study is a student's "blueprint" for completing graduation requirements.

Additional Certification for Teachers

A teacher with a valid West Virginia professional license who wants to add another teaching endorsement may do so by completing the course requirements, a performance assessment at the appropriate grade level, and, where specified, acceptable scores on the appropriate Praxis II test. Applicants from other states should verify eligibility for added endorsements through their state's Department of Education.

Admission Requirements

Admission Requirements to Master's Degree Programs

Applicants to the MA in Education should follow the admissions process described in this catalog or at the Graduate Admissions website at www.marshall.edu/graduate/admissions/how-to-apply-for-admission (https://www.marshall.edu/graduate/admissions/how-to-apply-for-admission/).

For full admission, applicants must have an undergraduate degree from an accepted, accredited institution with an undergraduate Grade Point Average (GPA) of 3.0 or higher on a 4.0 scale **or** have a master's degree from an accepted, accredited institution.

Applicants having an undergraduate degree from an accepted, accredited institution with an undergraduate GPA of 2.5 or above, but below 3.0, may be granted provisional admission. Provisionally admitted applications will be granted full admission upon successful completion of 12 hours toward the approved plan of study with a GPA of 3.25 or higher, assuming that all other admission requirements are met.

Note: Some areas of emphasis are designed to lead to added endorsements for licensed teachers. Applicants may be asked to submit additional materials, such as documentation of current teacher licensure, before an admission decision is made.

Certificate Program Admission Requirements

Prospective certificate-only students should apply for admission to Marshall University as a Certificate/Professional Development student and select, on the application form, the certificate they wish to pursue. Applicants must have:

- A baccalaureate degree from an accepted, accredited institution with an undergraduate Grade Point Average (GPA) of 2.50 or higher on a 4.0 scale; **or**
- A master's degree from an accepted, accredited institution.

Program Requirements

The Master of Arts in Education consists of a set of core course requirements, area of emphasis requirements, and a capstone experience. All students must complete 9 hours of coursework in research, educational foundations, technology integration (the M.A. core). Each student must also select an area of emphasis consisting of 18-21 hours of required coursework, depending on the area of emphasis. Students will meet the comprehensive assessment requirement through the framework of a 3-hour capstone experience.

Plans of Study for Areas of Emphasis, Professional Development Programs

Plans of study marked with a plus sign (+) are available as graduate certificate programs. Certificate coursework may be taken as a stand-alone program.

Plans of study marked with an asterisk (*) may lead to added endorsements for licensed teachers. Endorsement programs are available to teachers who hold a valid West Virginia professional license in any area other than the one for which endorsement is desired. Applicants from other states should verify eligibility for added endorsements through their state's Department of Education.

Early Childhood Education

This Area of Emphasis combines theory, research, and practical applications to child development and early childhood education. Options are available for licensed PreK-K teachers pursuing an

advanced degree or licensed elementary teachers seeking an added endorsement.

ECE Option 1 (PreK-K Licensed)

Option 1 is designed for teachers who hold a PreK-K professional license who wish to pursue an advanced degree, or non-licensed individuals who want to build their professional knowledge to better work with early learners in environments where teacher licensure is not required. This 18-hour option may be completed as an Area of Emphasis within the M.A. in Education (30 hours).

ECE Option 2 (K-6/K-8 Licensed) [+,*]

Option 2 is designed for teachers who hold a K-6 or K-8 professional license who wish to add a PreK-K endorsement. This option may be completed as a Graduate Certificate (21 hours) or may be used as an Area of Emphasis within the M.A. in Education (33 hours).

Elementary Mathematics Specialist [+,*]

The goals of this Area of Emphasis are to strengthen mathematical content knowledge, mathematical teaching methods, and mathematics leadership of elementary teachers, Grades K-6. This Area of Emphasis is designed for teachers who hold a valid professional license in Elementary Education. Satisfactory completion of the required courses and state licensure requirements leads to the addition of an Elementary Mathematics Specialist endorsement on an existing, current, regular, elementary education teaching license. To gain this specialist degree, the new endorsement must be associated with a master's degree. The courses for the endorsement are offered through two different avenues associated with a master's degree. Candidates can gain a master's degree in education by taking the required area of emphasis mathematics courses (21 hours) along with master's core courses (9 hours) and capstone course (3 hours) for a total of 33 hours of coursework. Or, if the applicant already has a master's degree in education that includes elementary education grades K-6, candidates can gain a graduate certificate by taking only the required area of emphasis mathematics courses for a total of 21 hours of coursework. After finishing the program through either of these two avenues appropriate to the candidate's educational background, candidates can apply for the Elementary Mathematics Specialist endorsement on their current, regular education, teaching license.

Individualized Plan of Study

Students selecting an individualized program must work with an advisor to develop a Plan of Study that includes the M.A. Core (9 hours), an individually tailored Area of Emphasis (18 hours), and the Capstone Experience (3 hours) for a total of 30 hours.

Instructional Processes and Strategies

This Area of Emphasis is designed to provide advanced preparation to enhance planning, teaching, and learning processes. This 18-hour specialization may be completed as an Area of Emphasis within the M.A. in Education (30 hours).

Instructional Technology and Learning [+]

This Area of Emphasis focuses on instructional applications and classroom utilization of technology to improve teaching and learning. This specialization may be completed as a Graduate Certificate (18 hours) or as an Area of Emphasis within the M.A. in Education (30 hours).

Mathematics Through Algebra I [+,*]

This Area of Emphasis is available to teachers who hold a valid professional license in any area other than mathematics. Satisfactory completion of the required courses and passing the Praxis II meets the requirements for this added endorsement in West Virginia. The goals of this Area of Emphasis are to provide mathematical content knowledge and mathematical teaching methods to prepare middle school mathematics teachers. These courses may be completed as a Graduate Certificate (24 hours) or may be used as an Area of Emphasis within the M.A. in Education (33 hours).

School Library Media Specialist [+,*]

The Area of Emphasis in Library Media provides an added endorsement for elementary and secondary teachers who have met initial licensure requirements. The program prepares K-12 teachers to manage school library media centers, collaborate with faculty to support the school curriculum and facilitate information literacy. These courses may be completed as a Graduate Certificate (24 hours) or may be used as an Area of Emphasis (21 hours) within the M.A. in Education (33 hours).

Teaching English as a Second Language: Option 1 - Licensure (ESL-1) [+,*]

The Area of Emphasis in Teaching English as a Second Language offers two options. “Licensure” provides an added endorsement for elementary and secondary teachers who have met initial licensure requirements. The purpose of both programs is to prepare teachers who work with learners who enter schools with a language other than English. Option 1 may be completed as a Graduate Certificate (21 hours) or may be used as an Area of Emphasis within the M.A. in Education (33 hours).

Teaching English as a Second Language: Option 2 - Non-Licensure (ESL-2) [+]

The Area of Emphasis in Teaching English as a Second Language offers two options. Option 2 provides content and pedagogical training for educational professionals who are not licensed teachers, or who are seeking licensure through other means. The purpose of both programs is to prepare teachers who work with learners who enter schools with a language other than English. Option 2 may be completed as a Graduate Certificate (21 hours) or may be used as an Area of Emphasis within the M.A. in Education (30 hours).

Plan of Study

Code	Title	Credit Hours
Core Courses		
EDF 622	Action Research in Education	3
EDF 610	Trends & Issues in Education	3
or EDF 619	Educational Psychology	
Select one of the following:		3
CIEC 534	Appli Software Class Curr Area	
CIEC 600	Instructional Design & Tech	
CIEC 635	Using Internet in Classroom	
Area of Emphasis		**18-21**
Select one of the following:		
Early Childhood Education		
Elementary Mathematics Specialist		

Individualized Plan of Study		
Instructional Processes and Strategies		
Instructional Technology and Learning		
Mathematics through Algebra I		
School Library Media Specialist		
Teaching English as a Second Language - Licensure		
Teaching English as a Second Language - Non-Licensure		
Capstone Experience		**3**
CI 690	Capstone Experience	
Total Credit Hours		**30-33**

Plans of Study for Areas of Emphasis, Professional Development Programs

Located on the separate emphasis pages.

- Early Childhood Education Emphasis (p. 146)
- Elementary Mathematics Specialist Emphasis (p. 147)
- Individualized Plan of Study Emphasis (p. 147)
- Instructional Processes and Strategies Emphasis (p. 147)
- Instructional Technology and Learning Emphasis (p. 147)
- Mathematics through Algebra I. Emphasis (p. 147)
- School Library Media Specialist Emphasis (p. 147)
- Teaching English as a Second Language non-Licensure Emphasis (p. 147)

Areas of Emphasis

- Early Childhood Education, Emphasis in M.A. (p. 146)
- Elementary Mathematics Specialist, Emphasis in M.A. (p. 147)
- Individualized Plan of Study, Emphasis in M.A. (p. 147)
- Instructional Processes and Strategies, Emphasis in M.A. (p. 147)
- Instructional Technology and Learning, Emphasis in M.A. (p. 147)
- Mathematics through Algebra I, Emphasis in M.A. (p. 147)
- School Library Media Specialist, Emphasis in M.A. (p. 147)
- Teaching English as a Second Language, Non-Licensure, Emphasis in M.A. (p. 147)

Early Childhood Education, Emphasis in M.A.

Program Description

The Area of Emphasis in Early Childhood Education is completed as part of the M.A. in Education. This Area of Emphasis is designed for two distinct audiences: 1. licensed pre-k teachers who want to deepen their expertise in the field of early childhood education, and 2. licensed elementary teachers seeking to add an endorsement in Early Childhood Education.

The goal of this area of emphasis is to strengthen knowledge of early childhood pedagogy, research-based approaches and methods, and best practices for providing a holistic and integrated approach to support the education of young children.

Based on the audience, individuals who complete the Area of Emphasis in Early Childhood Education and the requirements of the M.A. in Education leads to one of two ends: 1. Non-licensure track: An M.A. in Education with an Emphasis in Early Childhood Education for those who already have licensure in PreK/K; or 2. New endorsement track: The addition of PreK-K to an existing, current, regular, elementary education teaching license.*

*Teacher Licensure

A teacher with a valid West Virginia professional license who wants to add another teaching endorsement may do so by completing the course requirements, a performance assessment at the appropriate grade level, and, where specified, acceptable scores on the appropriate Praxis II test. Applicants from other states should verify eligibility for added endorsements through their state's Department of Education.

Course Requirements

Code	Title	Credit Hours
Early Childhood Education Area of Emphasis (all enrollees)		
CI 605	Trauma Res. Child Guid. in ECE	3
CI 631	Early Child. Approach & Method	3
CI 632	Early Childhood Programs	3
CI 633	Adult Involve in Early Ed	3
CI 634	Lang/Cog Early Childhood	3
EDF 513	Human Growth Dev Birth-8 Yr	3
Additional class required for those who have an existing, valid elementary license who want to add a Pre-K/K endorsement:		
CI 630	Practicum Early Childhood Ed	3
Total Credit Hours		**18-21**

Plan of Study

Master's in Education with Area of Emphasis in Childhood Education

Fall		Credit Hours
CI 605	Trauma Res. Child Guid. in ECE	3
EDF 513	Human Growth Dev Birth-8 Yr	3
Practicum:		0-1
CI 630	Practicum Early Childhood Ed [1]	
	Credit Hours	**6-7**
Spring		
CI 631	Early Child. Approach & Method	3
CI 634	Lang/Cog Early Childhood	3
Practicum:		0-1
CI 630	Practicum Early Childhood Ed [1]	
	Credit Hours	**6-7**
Summer		
CI 632	Early Childhood Programs	3
CI 633	Adult Involve in Early Ed	3
Practicum:		0-1
CI 630	Practicum Early Childhood Ed [1]	
	Credit Hours	**6-7**
	Total Credit Hours	**18-21**

[1] CI 630 is only required for those with an existing elementary education license who want to add a Pre-K/K endorsement. Students can complete 1 credit hour per semester (as shown above) or take as a 3 hour course in one semester.
Total Credit Hours for students who take CI 630 is 21.

Elementary Mathematics Specialist, Emphasis in M.A.

Elementary Mathematics Specialist

Code	Title	Credit Hours
CIME 500	Math for the Elem Teach I	3
CIME 501	Math for the Elem Tchr II	3
CIME 555	Technical Math for Math Educa	3
CIME 650	Algebra for Math Educator	3
CIME 658	Geometry for Math Educat	3
CIME 670	Teaching Mathematics	3
CIME 673	Elem Math Methds Practice K-6	3
Total Credit Hours		**21**

Individualized Plan of Study, Emphasis in M.A.

Individualized Plan of Study

Code	Title	Credit Hours
Individually tailored Area of Emphasis		18
Total Credit Hours		**18**

Instructional Processes and Strategies, Emphasis in M.A.

Instructional Processes and Strategies

Code	Title	Credit Hours
CI 551	Writing to Learn/Content Area	3
CI 559	Diversity Equity Incl in Ed	3
CI 623	Instruct Models Assess Tech	3
CIEC 635	Using Internet in Classroom	3
EDF 610	Trends & Issues in Education	3
Advisor-approved methods elective		3
Total Credit Hours		**18**

Instructional Technology and Learning, Emphasis in M.A.

Instructional Technology and Learning

Code	Title	Credit Hours
CIEC 600	Instructional Design & Tech	3
CIEC 615	Online Course Devel/Delivery	3
CIEC 630	Authoring Systems & Multimedia	3
CIEC 635	Using Internet in Classroom	3
CIEC 699	Final Project in Curr Area	3
Advisor-approved elective		3
Total Credit Hours		**18**

Mathematics through Algebra I, Emphasis in M.A.

Mathematics Through Algebra I

Code	Title	Credit Hours
CIME 555	Technical Math for Math Educa	3
CIME 556	Finite Math for Math Educa	3
CIME 650	Algebra for Math Educator	3
CIME 657	Precalculus for Math Educa	3
CIME 658	Geometry for Math Educat	3
CIME 670	Teaching Mathematics	3
CIME 675	Superv Field Prac/Math 5-8	3
or CIME 677	Superv Field Pract/Math 5-12	
Total Credit Hours		**21**

School Library Media Specialist, Emphasis in M.A.

School Library Media Specialist

Code	Title	Credit Hours
ITL 501	Libraries & the Learn Process	3
ITL 502	Library Mat for Adolsc (approved methods course in the M.A. core)	3
ITL 504	Library Mat for Children	3
ITL 625	Library Organiza & Admin	3
ITL 627	Cataloging & Reference	3
ITL 631	Technology and the Library	3
ITL 650	Library Practice (Field Work taken each semester 1 credit hour)	3
Total Credit Hours		**21**

Teaching English as a Second Language, Non-Licensure, Emphasis in M.A.

Teaching English as a Second Language: Option 2 - Non-Licensure (ESL-2)

Code	Title	Credit Hours
CISL 550	Second Language Acquisition	3
CISL 551	Linguistics for ESL	3
CISL 552	Intercultural Comm/ESL	3
CISL 653	Methods ESL:Language	3
CISL 654	Methods ESL: Literacy	3

Advisor-approved elective	3
Total Credit Hours	**18**

Educational Leadership, Post Masters Certificate

Educational Leadership

Students looking to obtain principal/supervisor/superintendent administrative licensure have two avenues to pursue. The first is through the Master of Arts Degree in Leadership Studies–Education Leadership. The second is by completing the post-master's certification program in school principalship/supervisor/superintendent, which is available to those who already possess a master's degree in education. This information is for the post-master's certificate program.

Applicants should follow the graduate admission process in this catalog and on the Marshall website at http://www.marshall.edu/graduate/admissions/how-to-apply-for-admission (http://www.marshall.edu/graduate/admissions/how-to-apply-for-admission/). Applicants should apply on the Distance-Only application and select "Certificate (PM): Educational Leadership" on the application.

In addition to Marshall University's requirements for graduate admission, applicants must have:

- A master's degree in education from a CAEP-accredited institution with an overall graduate Grade Point Average (GPA) of 3.0 on a 4.0 scale.
- One of the following:
  - A professional Teaching License;
  - A Career and Technical Education Teaching Certificate; or
  - A Student Support Certificate in School Counseling.
- A minimum of two years of teaching or school counseling experience at the time of admission to the program.

- Students will follow a program Plan of Study consisting of 18 credit hours.
- Every student must designate a practicing principal/supervisor/superintendent who agrees to act as his or her mentor during the program.
- Field experiences are a required component of this program and are embedded in program classes. Some field experiences are embedded in the program classes, and the remainder are completed in the LS 660 (https://catalog.marshall.edu/search/?P=LS%20660) Capstone: School Management course.
- All admitted students are expected to maintain a cumulative GPA of 3.0 or higher. Students may not earn more than two grades of C in the program.
- Upon completion of the program, candidates seeking school principal/supervisor/superintendent in West Virginia are required to pass the PRAXIS 5412 Educational Leadership Administration and Supervision test.
- West Virginia Licensure also requires the candidate to complete the Evaluation Leadership Institute from the West Virginia Department of Education.
- Students seeking licensure in other states should contact the state's local licensing agency for information on requirements.

Code	Title	Credit Hours
LS 510	Administrative Leadership	3
LS 610	Leadership for Sch Improve	3
LS 630	The School and the Community	3
LS 660	Capstone: School Management	3
LS 675	Legal and Policy Issues	3
LS 771	Capstone: District Lvl Leader	3
Total Credit Hours		**18**

Educational Specialist, Ed.S.

The Education Specialist, Ed.S. requires the Curriculum and Instruction area of emphasis.

Area of Emphasis

- Curriculum and Instruction, Emphasis in Ed.S. (p. 148)

Curriculum and Instruction, Emphasis in Ed.S.

Program Description

The Education Specialist degree with an Area of Emphasis in Curriculum and Instruction is designed for post-master's professionals who are seeking a planned and structured program of study. Students may elect to be dually enrolled in the Education Specialist program and Doctor of Education in Curriculum and Instruction program.

Degree Requirements

Education Specialist degree (Ed.S.) students follow a planned program of study and must maintain a cumulative Grade Point Average (GPA) of 3.0.

Plan of Study

Code	Title	Credit Hours
Core Courses		
EDF 703	Research Design	3
EDF 625	Qualitative Research Educ	3
or EDF 676	Statistical Methods	
CIEC 700	Technology and Curriculum	3
EDF 711	Survey Research in Education	3
Area of Emphasis		
CI 627	Program Plan and Evaluation	3
CI 701	Curriculum Development	3
CI 702	Curriculum Theories	3
CI 703	Theory Models & Res. of Teach	3
CI 704	Soc Cult Pol Determ Curr	3
Capstone		
EDF 679	Problem Report	3
Total Credit Hours		**30**

Elementary Mathematics Specialist, Graduate Certificate

Program Description

The Graduate Certificate in Elementary Mathematics Specialist may also be completed as an area of emphasis within the M.A. in Education. This certificate is designed for licensed elementary teachers seeking to add an endorsement as an Elementary Mathematics Specialist, Grades K-6. This certificate emphasizes deep learning of mathematical content as well as mathematical leadership and progressive mathematical pedagogy for teaching elementary students. Satisfactory completion of the certificate program and state licensure requirements leads to the addition of an Elementary Mathematics Specialization endorsement on an existing, current, regular, elementary education teaching license.

Teacher Licensure

A teacher with a valid West Virginia professional license who wants to add another teaching endorsement may do so by completing the course requirements, a performance assessment at the appropriate grade level. Applicants from other states should verify eligibility for added endorsements through their state's Department of Education.

Admission Requirements

Prospective certificate-only students should apply for admission to Marshall University as a Certificate/Professional Development student and select, on the application form, the certificate they wish to pursue. Applicants must have:

- A baccalaureate degree from an accepted, regionally accredited institution with an undergraduate Grade Point Average (GPA) of 2.50 or higher on a 4.0 scale; **or**
- A master's degree from an accepted, regionally accredited institution.

Applicants may be asked to submit additional materials, such as documentation of current teacher licensure, before an admission decision is made.

Code	Title	Credit Hours
CIEC 534	Appli Software Class Curr Area	3
CIME 500	Math for the Elem Teach I	3
CIME 501	Math for the Elem Tchr II	3
CIME 555	Technical Math for Math Educa	3
CIME 650	Algebra for Math Educator	3
CIME 658	Geometry for Math Educat	3
CIME 673	Elem Math Methds Practice K-6	3
Total Credit Hours		**21**

Instructional Technology and Learning, Graduate Certificate

Program Description

The Graduate Certificate in Instructional Technology and Learning may also be completed as an area of emphasis within the M.A. in Education. The goal of this certificate is to provide hands-on exploration of a variety of technologies for the purpose of enhancing teaching and learning experiences in wide range of settings. Participants include classroom teachers in K-12 and higher education along with professionals interested in training, development, and instructional design. This certificate does not result in initial teacher licensure or added endorsement.

Admission Requirements

Prospective certificate-only students should apply for admission to Marshall University as a Certificate/Professional Development student and select, on the application form, the certificate they wish to pursue. Applicants must have:

- A baccalaureate degree from an accepted, accredited college or university with an undergraduate Grade Point Average (GPA) of 2.50 or higher on a 4.0 scale; **or**
- A master's degree from an accepted, regionally accredited institution.

The certificate requires completion of 18 hours, including a 3-hour final project course.

Code	Title	Credit Hours
CIEC 534	Appli Software Class Curr Area	3
CIEC 600	Instructional Design & Tech	3
CIEC 615	Online Course Devel/Delivery	3
CIEC 630	Authoring Systems & Multimedia	3
CIEC 635	Using Internet in Classroom	3
CIEC 699	Final Project in Curr Area	3
Total Credit Hours		**18**

Leadership Studies, Ed.D.

Program Description

The Ed.D. in Leadership Studies is designed for individuals who aspire to leadership positions in their professional communities, whether those communities are schools, universities, non-profits or philanthropies, state or federal government organizations, NGOs, the military, social service agencies, etc. The program therefore welcomes a broad range of applicants who represent diverse institutions and organizations and who are committed to cultivating a deeper understanding of leadership and improving their competence as researchers.

Admission Requirements

The decision to admit an applicant to doctoral work constitutes a significant institutional and faculty commitment to advising, teaching, chairing or serving on student committees, collaboratively conducting and presenting research, evaluating assessments, and guiding the successful completion of the dissertation. The applicant should note the decision to admit students to the doctoral program is a collective judgment of the program faculty and represents their determination of the likelihood that the candidate will succeed in all major phases of the degree program. These holistic judgments take into account the applicant's professional experiences, communication and thinking skills, and other relevant capabilities and dispositions, both individually and relative to the characteristics of the entire, active applicant pool.

Applicants are not automatically admitted on the basis of meeting only the minimum or preferred criteria. A variety of performance measures may be considered during the holistic admission application review, via a formal and objective evaluation process including, but not limited to, undergraduate and graduate grade point averages, interviews and assessments, record of scholarly engagement and publication, and scores on graduate admissions exams, when available.

Application and Admission Dates

The "Marshall University Graduate Application for Admission" must be completed and submitted with the appropriate application fee. The application may be completed via the Marshall University Application for Graduate Admission at www.marshall.edu/admissions/graduate (http://www.marshall.edu/admissions/graduate/) and the applicant should indicate on the application that they desire to apply to the online Doctor of Education (Ed.D.) program in Leadership Studies. The Leadership Studies Doctoral Program reviews application files once completed, with all required credentials submitted.

The Ed.D. program utilizes a selective and competitive admission process, for fall semester admission only. The priority deadline for full consideration is April 15, prior to the fall term for which the applicant is seeking admission. Completed applications received after April 15, may be considered for admission on a competitive basis, while capacity remains in the program. The program may also offer a waitlist option, at its sole discretion, for select admission terms, depending on applicant qualifications and available space in the program.

All required application materials must be on file in the MU Graduate Admissions Office and the Leadership Studies Ed.D. Office before admission requests will be considered. The following items are required and/or preferred for all students applying for admission to the Leadership Studies Ed.D. program.

Items Submitted to MU Graduate Admissions Office

Application: The "Marshall University Graduate Application for Admission" must be completed and submitted by all applicants, with the appropriate application fee. The application may be completed online at www.marshall.edu/admissions/graduate (http://www.marshall.edu/admissions/graduate/). The applicant indicates on the application that s/he desires to be accepted into the online Doctor of Education (Ed.D.) program and specifies the major of Leadership Studies (major code GEJ0).

Transcripts: The applicant must request that official transcripts of all completed undergraduate and graduate degree programs be sent by the degree-granting institution(s) to the MU Graduate Admissions Office. A minimum graduate grade point average (GPA) of 3.0 is required in order to be considered for admission. A master's degree from an accepted, accredited institution is required for admission and preference is given to applicants who have successfully completed a thesis as part of their master's degree program.

Optional Admission Test Scores: Applications for the Leadership Studies Ed.D. program will be reviewed holistically, with submission of GRE exam scores and other acceptable graduate admissions exams (e.g., LSAT, GMAT, MCAT, etc.) being optional. Admission to the program is selective and competitive and all offers of admission to the program are based on program capacity and the applicant's qualifications relative to the entire, current applicant pool. The admission review process includes evaluations of the applicant's academic record, interview, writing assessment, exam scores, when available, and other admission materials judged by program faculty to be indicators of likely success in the program. Applicants may request an official record of available test scores, sent directly from the testing agency to the MU Graduate Admissions Office. Copies from applicants are not acceptable and scores may be no more than five years old.

Items Submitted to the Leadership Studies Ed.D. Office

The following items are to be submitted to the Leadership Studies Ed.D. Office. Hard copies may be sent to 100 Angus E. Peyton Drive, South Charleston, WV 25303- 1600. Electronic copies may be sent to the Leadership Studies Ed.D. administrative staff.

Goals Statement: The applicant must provide a goal statement, written in essay format, (500- 750 words) which must address the following topics: professional experiences that provide a basis for considering the applicant's admission to the program; role of the Ed.D. in the applicant's professional growth plan; personal strengths that will contribute to the applicant's success in the Ed.D. program; and additional information the applicant deems relevant to the admissions process and decision.

The applicant's ability to synthesize ideas to the level required for work in this advanced degree program and the appropriateness of the applicant's goals as they relate to the objectives of the Ed.D. program will be assessed. The goals statement may be mailed or sent electronically as a Microsoft Word document to the address listed above.

Resume: The applicant must provide a current professional CV or resume with the following information: educational accomplishments (including the title of any thesis completed to fulfill the requirements for a master's degree and/or other academic publications), work experience, current address, phone number(s), and email address. These documents may also be submitted through one of the addresses above.

Interview and Assessment

Upon review of the completed application materials, applicants who are selected to participate in an initial, electronic interview and writing assessment (at no additional cost to the applicant) will be notified. Formal and established criteria will be utilized by program faculty to objectively review each applicant and determine admissibility. Being invited to interview does not guarantee admission to the program. Interviews and assessments provide the faculty with the opportunity to closely examine applicants' qualifications and goals beyond the printed materials submitted in the application process. Interviews and assessments will be conducted electronically, and applicants will be notified as soon as possible regarding the faculty's decision regarding their applications for admission.

Applicants who are denied admission to the program and wish to be reconsidered may submit a written request to the Leadership Studies Doctoral Program Admissions Committee. Records of applicants who

are not admitted will be maintained on file by the Leadership Studies Ed.D. office for a period of one year.

An applicant must have earned at least a master's degree from an accepted, accredited institution. The Leadership Studies doctoral program may admit applicants conditionally for one term, at the program's discretion, when the applicant is currently enrolled in a required degree program that will be completed prior to the beginning of enrollment in the Leadership Studies doctoral program and has met all other admission criteria.

Final official degree transcripts must be received by MU Graduate Admissions and full admission granted by the Leadership Studies Ed.D. program before the student may enroll for the subsequent term. Details of all admission requirements and other pertinent information can be found at www.marshall.edu/lsedd. (https://www.marshall.edu/lsedd/)

Program Requirements

To remain in good standing, and in addition to Marshall University's standards for good standing at the graduate level, students admitted to the Leadership Studies Ed.D. program must adhere to all policies and procedures outlined in the Leadership Studies Ed.D. Handbook, including the expectations listed below:

- Maintain continuous enrollment in the program from admission and first term of enrollment through graduation, with satisfactory progress toward the degree and dissertation (i.e., completion of coursework two out of three contiguous terms from admission to the program through admission to candidacy; after admission to candidacy, the student must be enrolled every term (i.e., spring, summer and fall).
- Maintain a GPA of 3.5 in the doctoral program. Courses with a grade of "C" or below will not count toward the doctoral degree.
- Activate and utilize their official MU email address for program communication. Student contact information must remain updated with the University Registrar's Office, the Leadership Studies Ed.D. program office, and the student's advisor.
- Identify an external committee member no later than the end of the first two courses in the research block.
- A "Doctoral Plan of Study" form must be signed by the student, the Leadership Studies Program Director and the Leadership Studies Doctoral Program Coordinator no later than one term following admission to the program.
- Satisfactory progress toward completion of the six-course, three-block research core, with demonstrable progress toward completion of the dissertation. Students who receive a grade of No Credit (NC) in either LS 764 or LS 765 will be required to repeat the course. Students who receive two consecutive grades of No Credit (NC) in either LS 764, LS 765, or LS 797 will be dismissed from the program.
- Completion of all degree requirements within 2 years of approval of prospectus and admission to candidacy

Dismissal from the Program: If the student fails to meet any or all expectations set forth by Marshall University or the program (including continuous enrollment, maintaining a minimum 3.5 GPA, progress toward completion of the dissertation or degree within the specified time periods, and/or execution of a completed and signed Plan of Study form), the student may be subject to dismissal from the program. Any student who has earned less than a 3.5 GPA, either overall or in their current major, will be placed on academic probation by the Dean of the College of Education and Professional Development. If the student fails to address their academic deficiencies, per university policy and as agreed upon by the Leadership Studies Program Coordinator and the Dean of COEPD, they will be dismissed from the program. Courses with a grade of "C" or below will not count toward the doctoral degree.

- The student will be notified by registered mail of dismissal from the program and given the opportunity of due process as defined by the Marshall University Graduate Catalog in writing.
- If the appeal is granted, the student must submit in writing a plan to complete the program in a reasonable time.
- If the appeal is denied, the student will be dismissed from the program and prevented from registering for future courses in the program.

Course Requirements

Code	Title	Credit Hours
Content Courses		
LS 707	Ethical Theory	3
LS 709	Leadership in a Global Crisis	3
LS 710	Principles of Leadership	3
LS 724	Organizational Analysis	3
LS 735	Policy Studies	3
LS 756	Current Issues in Leadership	3
Research Courses		
EDF 676	Statistical Methods	3
EDF 703	Research Design	3
EDF 625	Qualitative Research Educ	3
EDF 711	Survey Research in Education	3
LS 764	Adv Research I	3
LS 765	Adv Res II in Lead Studies	3
LS 797	Dissertation Research	9

Leadership Studies, M.A.

Leadership Studies, M.A. with Educational Leadership Area of Emphasis

The Master of Arts degree in Leadership Studies with an emphasis in Educational Leadership is a fully online program which includes the coursework for principal administrative licensure. Students complete a 30 hour program that includes many field-based experiences.

This program provides the coursework to apply for principal, supervisor, and superintendent licensure as a PreK-Adult administrator in West Virginia and many other states. Students from other states should check with their state licensing agency for licensure requirements.

Those seeking professional licensure as a school principal in West Virginia must pass the PRAXIS 5412 Educational Leadership Administration and Supervision test and also complete the Evaluation

Leadership Institute offered by the West Virginia Department of Education.

For complete information on requirements and applying, please visit http://www.marshall.edu/coepd/graduate/ls/maprincipal.

Leadership Studies, M.A. with Leadership Specialist Area of Emphasis

This program is ideally suited to the needs of working professional adult students who wish to gain leadership skills, but do not want to limit their knowledge to any particular area of study.

Admission Requirements

Admission Requirements for Educational Leadership Area of Emphasis

Applicants should follow the admissions process described in this catalog or at the Graduate Admissions website at www.marshall.edu/graduate/admissions/how-to-apply-for-admission (https://www.marshall.edu/graduate/admissions/how-to-apply-for-admission/). In addition:

- Applicants must hold a Professional Teaching Certificate or a Student Support Certification and possess a minimum of two years of teaching or school counseling experience at the time of admission to the program.

Admission Requirements for Leadership Specialist Area of Emphasis

Applicants should follow the admissions process described in this catalog or at the Graduate Admissions website at www.marshall.edu/graduate/admissions/how-to-apply-for-admission (https://www.marshall.edu/graduate/admissions/how-to-apply-for-admission/). Applicants should select the Distance-Only application and under programs, select "Leadership Studies (M.A.): Leadership Specialist" on the application.

In addition to Marshall University's requirements for graduate admission, applicants must have:

- A bachelor's degree from an accepted, accredited institution; and
- An undergraduate Grade Point Average (GPA) of 3.00 or higher on a 4.00 scale.

Applicants may be admitted provisionally with a minimum GPA of 2.5. The student will be directed to complete 12 hours of selected courses designated by the department. If a 3.25 Grade Point Average is maintained in those courses, then the applicant will be fully admitted to the degree program.

Graduation Requirements

- Maintaining a GPA of 3.0 or above throughout the program is required.
- Students cannot use more than two Cs to satisfy the program requirements.

- Educational Leadership, Emphasis (p. 152)
- Leadership Specialist, Emphasis (p. 152)

Educational Leadership, Emphasis

Plan Of Study

Educational Leadership Area of Emphasis

First Year		Credit Hours
LS 625	Human Resources Management	3
LS 645	Comm Collaborative Plan Mgmt	3
	Credit Hours	**6**
Fall		
LS 630	The School and the Community	3
	Credit Hours	**3**
Spring		
LS 510	Administrative Leadership	3
LS 610	Leadership for Sch Improve	3
LS 635	Organizational Theory	3
	Credit Hours	**9**
Summer		
LS 550	Schools as Systems	3
LS 675	Legal and Policy Issues	3
Capstone courses are offered every semester but must be taken at the end:		
LS 660	Capstone: School Management	3
LS 771	Capstone: District Lvl Leader	3
	Credit Hours	**12**
	Total Credit Hours	**30**

Leadership Specialist, Emphasis

Leadership Specialist Area of Emphasis

Code	Title	Credit Hours
Core Courses		
LS 615	Leadership in Public Sector	3
LS 625	Human Resources Management	3
LS 632	Human Rel in Public Sec	3
LS 645	Comm Collaborative Plan Mgmt	3
ACE 689	Grant Proposal Writing	3
Elective Courses - select 4 courses from the list below:		**12**
LS 626	Fundraising Management	
LS 628	Nonprofit & Public Sector Orgs	
LS 633	Lead International Nonprofit	
LS 635	Organizational Theory	
LS 640	Legal Issues NPO & Public	
Capstone		
LS 690	Leadership Capstone Course	3
Total Credit Hours		**30**

Leadership Specialist Program Requirements

- A graduate candidate in either area of emphasis within the Leadership Studies, M.A. program may receive no more than two grades of "C" or below in any course. In the event of a third grade of "C" or below, the student may be dismissed from the program, even if the student repeated a course and earned a higher grade.

Literacy Education, Graduate Certificate

Program Description

The Literacy Education certificate is intended for educators who hold an initial teaching license and wish to become highly qualified teachers of reading. It consists of five courses, with embedded field-experiences and can lead to a reading endorsement at either the elementary or secondary level.

Admission Requirements

Prospective certificate-only students should apply for admission to Marshall University as a Certificate/Professional Development student and select on the application form the certificate they wish to pursue.

In addition, they must have:

1. an initial undergraduate degree in education from a accepted, accredited college or university; and
2. a valid teaching license.

Program Requirements

A Plan of Study approved by the student's advisor must be on file with the Literacy Education program within 30 days of acceptance into the program. The Plan of Study is a student's "blueprint" for completing graduation requirements.

Course Requirements

Code	Title	Credit Hours
CIRG 636	Developmental Reading	3
CIRG 644	Literacy in the Content Area	3
CIRG 615	Writing in Literacy Curriculum	3
CIRG 653	Literacy Acquisition	3
CIRG 637	Literacy Assessment	3
A series of performance assessments completed as candidates move through the program.		
Total Credit Hours		**15**

Literacy Education, M.A.

Program Description

The Master of Arts in Literacy Education consists of five foundation courses, four advanced courses, two of which are practicum experiences, and one elective course, for a total of 36 credit hours.

Teacher Licensure

None of the degree or certificate programs in Literacy Education leads to an *initial* teaching license.

Additional Endorsements For Literacy Teachers

West Virginia teachers who wish to add the West Virginia endorsement for the Reading Specialist may do so by completing the M.A. in Literacy Education program, passing the PRAXIS 5301 test, and applying to the West Virginia Department of Education.

West Virginia teachers who wish to add the West Virginia endorsement for Reading Teacher may do so by completing the Certificate in Literacy Education program and applying to the West Virginia Department of Education. Students from other states and countries will need to contact their state Department of Education to verify eligibility for added endorsements.

Admission Requirements

Applicants should follow the admissions process described in this catalog or at the Graduate Admissions website at www.marshall.edu/graduate/admissions/how-to-apply-for-admission. (https://www.marshall.edu/graduate/admissions/how-to-apply-for-admission/)

In addition, applicants must have:

- A degree from an accepted, accredited university.
- An undergraduate Grade Point Average (GPA) of 2.7 or higher on a 4.0 scale.
- A valid teaching certificate.

Program Requirements

Degree candidates follow a planned program of study and must maintain a cumulative Grade Point Average (GPA) of 3.0. The program of study includes several assessments that are completed as candidates move through the program. A minimum of one year of teaching experience or equivalent as a long-term substitute is required by the time of program completion.

This program requires six hours of supervised practicum in CIRG 623 and CIRG 643. Students must earn a grade of "B" or better in CIRG 623 Lit Facilitator Pract and CIRG 643 Tch Strug Readers Practicum and complete a series of performance assessments completed as they move through the program.

Plan of Study

A Plan of Study approved by the student's advisor must be on file with the Literacy Education program within 30 days of acceptance into the program. The Plan of Study is a student's "blueprint" for completing graduation requirements.

Code	Title	Credit Hours
CIRG 636	Developmental Reading	3
CIRG 644	Literacy in the Content Area	3
CIRG 615	Writing in Literacy Curriculum	3
CIRG 653	Literacy Acquisition	3
CIRG 637	Literacy Assessment	3
CIRG 654	Aligning Assess with Instruct	3
CIRG 643	Tch Strug Readers Practicum	3
CIRG 623	Lit Facilitator Pract	3
CIRG 621	Curr Issues & Prob Reading	3

Students will be required to select one elective course, chosen in consultation with the program advisor.	3
Total Credit Hours	**30**

This program requires six hours of supervised practicum and a series of performance assessments completed as candidates move through the program.

Mathematics through Algebra I, Graduate Certificate

Program Description

The Graduate Certificate in Mathematics through Algebra I may also be completed as an area of emphasis within the M.A. in Education. This certificate is designed for licensed teachers seeking to add an endorsement in teaching Math 5-9. This certificate emphasizes deep learning of mathematical content as well as progressive mathematical pedagogy appropriate for teaching middle school students. Satisfactory completion of the certificate program and state licensure requirements leads to the addition of a Math 5-9 endorsement on an existing, current, regular, teaching license.

Teacher Licensure

A teacher with a valid West Virginia professional license who wants to add another teaching endorsement may do so by completing the course requirements, a performance assessment at the appropriate grade level, and, where specified, acceptable scores on the appropriate Praxis II test. Applicants from other states should verify eligibility for added endorsements through their state's Department of Education.

Admission Requirements

Prospective certificate-only students should apply for admission to Marshall University as a Certificate/Professional Development student and select, on the application form, the certificate they wish to pursue. Applicants must have:

- A baccalaureate degree from an accepted, accredited college or university with an undergraduate Grade Point Average (GPA) of 2.50 or higher on a 4.0 scale; **or**
- A master's degree from an accepted, regionally accredited institution.

Applicants may be asked to submit additional materials, such as documentation of current teacher licensure, before an admission decision is made.

The certificate requires completion of 24 hours.

Course Requirements

Code	Title	Credit Hours
CIEC 534	Appli Software Class Curr Area	3
CIME 555	Technical Math for Math Educa	3
CIME 556	Finite Math for Math Educa	3
CIME 650	Algebra for Math Educator	3
CIME 657	Precalculus for Math Educa	3
CIME 658	Geometry for Math Educat	3
CIME 670	Teaching Mathematics	3
CIME 675	Superv Field Prac/Math 5-8	3
Total Credit Hours		**24**

Post-Baccalaureate Teacher Certificate

Program Description

In West Virginia the license to teach is granted by the West Virginia Department of Education and is typically issued upon the completion of a four-year undergraduate program of study that included content and professional education courses. The Post-Baccalaureate Teacher Certificate (PBC) program offers an accelerated route to teacher certification for persons who already have undergraduate degrees in content areas such as chemistry, music, and other liberal and fine arts, or professional fields. Using the previously completed content courses as a foundation, this program provides the required professional education courses at the graduate level. Additional undergraduate classes may be needed in the content area.

Upon successful completion of the PBC program, all content courses, and testing requirements, the candidate earns a recommendation to the West Virginia Department of Education for a teaching certificate at the secondary level and is eligible to apply for a certificate from the university. The PBC does not include Elementary Education or Special Education certification.

Post-Baccalaureate Teacher Certificate

Certification Options

- Art Education, grades PreK-Adult
- Biological Science, grades 9-Adult
- Chemistry, grades 9-Adult
- English, grades 5-Adult
- General Science, grades 5-Adult
- Mathematics, grades 5-Adult
- Music, grades PreK-Adult
- Physics, grades 9-Adult
- Social Studies, grades 5-Adult
- Wellness, grades PreK-Adult

Admission To PBC And Licensure Requirements

1. Candidates must hold a bachelor's degree from an accepted, accredited institution (transcript required from degree-granting institution only).
2. Candidates must request a transcript analysis through a certification officer either in Huntington or South Charleston. An unofficial copy of the transcript may be used for the analysis. The analysis will identify the courses that can be used to meet content licensure requirements and the list of additional courses needed. Candidates must have 90% of the required content courses.
3. Candidates deciding to apply to the program after reviewing the transcript analysis should follow the admissions process described in this catalog or at the Graduate Admissions website at www.marshall.edu/graduate/admissions/how-to-apply-for-admission (http://www.marshall.edu/graduate/admissions/how-to-apply-for-admission/). Students should apply as Certificate/Professional Development students and select the Post-

Baccalaureate Teacher Certificate on the admissions form. Please note that all admissions documents must be submitted to Graduate Admissions before an applicant will be considered for admission.

4. In addition to university admission requirements, applicants must have an overall Grade Point Average (GPA) of 2.80 or higher on a 4.0 scale for all previously completed coursework and a GPA of 2.80 in the content area. Applicants who have an overall GPA of 2.5 or above, but below 2.80, may be granted provisional admission. Provisionally admitted applications will be granted full admission upon successful completion of 12 hours toward the approved plan of study with a GPA of 3.25 or higher, assuming that all other admission requirements are met.

Students may enroll in graduate courses only after they have been fully admitted to the PBC program. All students must maintain a cumulative Grade Point Average of 3.0.

In the last semester of the program students will be enrolled in EDF 677 MAT Level III Clinical Exper, a 15 week, full-time student teaching experience under the direct supervision of a certified teacher(s). Prerequisites for student teaching include the following:

- 3.0 GPA in all graduate PBC courses;
- completion of at least 90% of content courses (100% recommended);
- completion of EDF 537 MAT Level I Clinical Exper and EDF 637 MAT Level II Clinical Exper;
- completion of all PBC coursework and
- passing scores on the Praxis content test(s).

Before a candidate may apply for certification/licensure, he or she must pass or meet waiver requirements for the Praxis: Core Academic Skills for Educators, Praxis: Content, and Praxis Principles of Learning and Teaching (PLT) Grades 7-12.

Upon completion of the PBC program and all testing requirements, the student should apply for licensure. The teaching license is awarded by the West Virginia Department of Education; however, the candidate must be recommended for licensure by the institution.

Program Requirements

Post-Baccalaureate Teacher Certificate Program

Eligibility for Student Teaching: Students must successfully complete the courses listed below, the appropriate Praxis content knowledge test(s), and have 90% of their content requirements completed prior to enrolling for supervised student teaching.

Eligibility for Licensure: Students must meet content requirements, professional education requirements, and testing requirements. Testing requirements include the appropriate Praxis content knowledge test(s), and the Principles of Learning and Teaching (PLT) Students who apply for licensure from the West Virginia Department of Education are required to submit to the department a fingerprint card for federal and state background checks.

Course Requirements

Code	Title	Credit Hours
Foundations of Education		
EDF 616	Adv Studies Human Develop	3
or EDF 619	Educational Psychology	
EDF 612	Educational Evaluation	3
or EDF 636	Advanced Classroom Assessment	
Curriculum and Instruction		
CISP 510	Instructional Prac/Excep Child	3
CISP 520	Intro to Exceptional Child	3
CIRG 644	Literacy in the Content Area	3
EDF 537	MAT Level I Clinical Exper [1]	0
CI 515	Int Meth & Mat: Sec Ed	3
EDF 637	MAT Level II Clinical Exper	0
Technology		
Select one of the following:		3
CIEC 534	Appli Software Class Curr Area	
CIEC 600	Instructional Design & Tech	
CIEC 635	Using Internet in Classroom	
Supervised Student Teaching		
EDF 677	MAT Level III Clinical Exper [2]	3
In addition to the preceding courses, students must also complete all courses in their teaching specialization.		
Total Credit Hours		**24**

[1] Lab to accompany CI 515 Int Meth & Mat: Sec Ed

[2] Requires minimum of 90% completion of content courses and passing score(s) on the Praxis content examination(s).

School Library Media Specialist, Graduate Certificate

Program Description

The Graduate Certificate in School Library Media Specialist may also be completed as an area of emphasis within the M.A. in Education. This certificate is designed for licensed teachers seeking to add an endorsement as a School Library Media Specialist (K-12). The goal of this certificate program is to prepare participants to manage school library media centers, collaborate with other faculty to support the school curriculum, and facilitate information literacy among students. Satisfactory completion of the certificate program and state licensure requirements leads to the addition of a School Library Media Specialist (K-12) endorsement on an existing, current, regular, teaching license.

Teacher Licensure

A teacher with a valid West Virginia professional license who wants to add another teaching endorsement may do so by completing the course requirements, a performance assessment at the appropriate grade level, and, where specified, acceptable scores on the appropriate Praxis II test. Applicants from other states should verify eligibility for added endorsements through their state's Department of Education.

Admission Requirements

Prospective certificate-only students should apply for admission to Marshall University as a Certificate/Professional Development student and select, on the application form, the certificate they wish to pursue. Applicants must have:

- A baccalaureate degree from an accepted, accredited college or university with an undergraduate Grade Point Average (GPA) of 2.50 or higher on a 4.0 scale; **or**
- A master's degree from an accepted, regionally accredited institution.

Applicants may be asked to submit additional materials, such as documentation of current teacher licensure, before an admission decision is made.

Course Requirements

Code	Title	Credit Hours
ITL 501	Libraries & the Learn Process	3
ITL 502	Library Mat for Adolsc	3
ITL 504	Library Mat for Children	3
ITL 625	Library Organiza & Admin	3
ITL 627	Cataloging & Reference	3
ITL 631	Technology and the Library	3
ITL 650	Library Practice (taken each semester 1 credit hour each)	3
Total Credit Hours		**21**

School Psychology, Ed.S.

Program Description

The Ed.S. program in School Psychology is designed to prepare students to meet the Department of Education requirements for certification in West Virginia and other states. It is approved by the National Association of School Psychologists (NASP).

Prior to pursuing the 39 hours of required coursework and field experiences that lead to the Ed.S. in School Psychology, a student must first complete the M.A. degree in Psychology with an area of emphasis in School Psychology, described in the Psychology section of this catalog. After successfully completing the first semester of the master's degree program, students may apply to the Ed.S. program.

Students already possessing graduate degrees in psychology, counseling or education do not need to obtain the M.A. degree in Psychology with an area of emphasis in School Psychology. When these students apply to the Ed.S. in School Psychology program, they will be considered for advanced standing based upon a review of coursework, grades, and test scores by the School Psychology faculty.

Admission Requirements

Admission is competitive because of the limited number of available internships. Applicants should follow the admissions process described in this catalog or at the Graduate Admissions website at www.marshall.edu/graduate/admissions/how-to-apply-for-admission (https://www.marshall.edu/graduate/admissions/how-to-apply-for-admission/).

In addition, applicants must submit a sample of their professional writing (a scholarly paper on any subject) and a statement of their professional goals (1000 words or fewer). Submit all materials to Graduate Admissions.

Creating a diverse student body is a priority and minority applicants are encouraged to apply. A limited number of graduate assistantships are available. Students can be accepted into the school psychology program throughout the school year; however, school psychology competency classes begin in the fall semester of each academic year.

Program Requirements

During the second semester in the master's degree in psychology with an emphasis in School Psychology, students will apply for admission to the Ed.S. in School Psychology program. Students who participated in Marshall's AMD program may apply for the Ed.S program during their first semester with advisor recommendation. Students are admitted to the Ed.S. program with the expectation that they will complete the program within three to five years, depending on the number of classes in which they enroll each semester. Students are expected to enroll in all three semesters. Failure to make the expected amount of progress may result in reassignment to another internship year.

The internship requires a commitment to a school system for a full academic year and is 1200 hours (12 credit hours) unless the intern opts to complete the 1,200-hour experience part-time over a two year period as permitted by NASP. A maximum of 18 students will be admitted to this final-year experience. This paid internship must occur within a school setting and meet stringent criteria specified by the program and the National Association of School Psychologists. Students must pass the Praxis II Specialty Area Test in School Psychology prior to internship. In addition, students must complete a thesis or program evaluation before graduation.

Two-C Rule for this program: In the event a graduate candidate receives a second grade of *C* or below (including No Credit) in the specialist-level school psychology program, he or she will be placed on a remediation plan and be required to retake one course selected by his or her advisor. In the event a candidate receives a third grade of *C* or lower in the specialist program, the candidate will then be dismissed from the program. Dismissal will occur even if the second and third grades of *C* or below (including No Credit) are earned

1. simultaneously during the same semester or
2. in the same course (for example, a student received a *C* in SPSY 618 Dir Svc I Instruct & Bmod the first semester and again receives a *C* during the retake attempt).

Note: Due to the significance of content in SPSY 618 Dir Svc I Instruct & Bmod, SPSY 622 Data-Based Decision II, and SPSY 624 Data-Based Decision III to the field of school psychology, all grades of *C* or below must be retaken regardless of the candidate's other course grades.

Additionally, candidates with graduate GPAs that fall below a 3.0 will be dismissed.

Plan of Study

Code	Title	Credit Hours
Requirements		
SPSY 603	Prof Comp II School Psych	3

SPSY 620	Ind Svc II Prevention	3
SPSY 622	Data-Based Decision II	3
SPSY 624	Data-Based Decision III	3
SPSY 710	Application of MTSS	3
SPSY 720	Counseling With Youth Ad	3
SPSY 738	Practicum I	3
SPSY 739	Practicum II	3
Take Praxis II Specialty Examination in School Psychology		
SPSY 745	Internship in Sch Psych	12
One of the following:		3-12
SPSY 750	Ed S Thesis Research	
or SPSY 751	Program Evaluation	
SPSY 751	Program Evaluation	
Defend Thesis		
Total Credit Hours		**39-48**

School Superintendent, Licensure

Marshall University's program is currently being revised. Contact the Leadership Studies program for information.

Social Service and Attendance, Certificate/ Licensure

This program provides the required coursework for Social Service and Attendance licensure. The program is designed for educational personnel who hold a valid license, or for social workers who hold at least a bachelor's degree. In addition to the coursework requirements, students who do not hold a Professional Teaching Certificate or a master's degree are required to pass the PRAXIS 5752 Core Academic Skills for Educators test for licensure.

Admission Requirements

Applicants should follow the graduate admissions process in this catalog and on the Marshall website at https://www.marshall.edu/admissions/apply/. Applicants should apply on the graduate application and select "Certificate (PB): Social Service and Attendance" on the application form.

In addition to Marshall University's requirements for graduate admission, applicants must have taken either the Miller Analogies Test (MAT), a minimum score of 392 is required, or the Graduate Record Examination (GRE), a minimum combined score of 286 (verbal plus quantitative) is required, within the last five years; or have a master's degree from an accepted, accredited institution.

Applicants may be admitted conditionally for one term while test requirements are pending. Applicants may be admitted provisionally when a GPA or test score does not meet the minimum requirements at the discretion of the program director. All conditional admission requirements must be completed for full admission status and to register for subsequent semesters.

Every student must designate a practicing supervisor or attendance director who agrees to act as his/her mentor during the program.

Field experiences are a required component of this program and are embedded in program classes.

A graduate certificate candidate in the program may receive no more than one grade of "C" in the required coursework. In the event of a second grade of "C" or below, the student may be dismissed from the program.

Repeating a course for a higher grade does not negate the existence of the former grade. A student may be dismissed from the program upon earning a second grade of "C" or below, even if the student repeated the course and earned a higher grade.

Plan of Study

Code	Title	Credit Hours
COUN 670	Interv Current Issues Sch	3
or COUN 673	Coun Child Adol Parents	
LS 675	Legal and Policy Issues	3
LS 691	The Attendance Director	3
LS 692	Capstone: School Social Serv	3
Total Credit Hours		**12**

Special Education, M.A.

Non-Education Certification Program

The Non-Education Certification Program is designed to allow candidates from non-education backgrounds to obtain West Virginia teacher licensure in Visual Impairments, Multicategorical, and Autism at the 5-Adult level. The non-education program does not include a general education teaching endorsement.

Admission Requirements

Special Education M.A.

All applicants (including those seeking admission as professional development (certification only), should follow the admissions process described in this catalog or at the Graduate Admissions website at www.marshall.edu/graduate/admissions/how-to-apply-for-admission (http://www.marshall.edu/graduate/admissions/how-to-apply-for-admission/).

Applicants must:

- Have an undergraduate Grade Point Average (GPA) of 2.80 or higher on a 4.0 scale.
- Meet *one* of the following two requirements:
  - A total of 286 on the verbal and quantitative sections of the Graduate Record Examinations (GRE) or
  - A raw score of at least 30 or a scaled score of 378 on the Miller Analogies Test (MAT)

Non-Education Certification Program

Students must meet all Special Education Program admission requirements. In addition to the general Special Education Admission requirements, applicants must pass the Praxis I (Pre-Professional Skills Test) in Reading, Mathematics, and Writing within their first twelve hours of coursework. The Praxis I requirement is waived for applicants

with an enhanced ACT score of 26 or higher, a re-centered SAT score of 1125 or higher or if the applicant holds a master's degree.

Current West Virginia Department of Education initial certification requirements also require a minimum overall GPA of 2.5, as well as a 2.5 GPA in the content specialization area. Candidates in the Non-Education Certification program must also meet the WVDE Praxis II testing requirements including the Principles of Learning and Teaching (PLT) test at the 5-9 or 7-12 levels.

Program Requirements

Special Education M.A.

A master's degree may be earned with a specialization in any of the Areas of Emphasis listed below. Students without a background in education must acquire certification in regular education prior to endorsement in Special Education, or they can enter the Non-Education Certification program (see Section 6 under Program of Study). The Preschool Special Education certification is exempt from this requirement.

Plan of Study

A Plan of Study approved by the student's advisor must be submitted for approval to the academic dean before the student registers for his or her 12th semester hour. The Plan of Study is a student's "blueprint" for completing graduation requirements.

2-C Rule

- Students may use three (3) credits of *C* in Special Education courses to meet requirements of graduation. Any student earning a *C* in any of the clinical courses (CISP 655) will be required to repeat that course. Once a student earns a grade of *C*, that student needs to meet with his or her advisor, and, perhaps, the instructor of that course to discuss the grade, the deficiencies that led to that grade, and prepare a plan to prevent a second *C* or lower grade. This plan will be put in writing and signed by the student, advisor, and the faculty member and submitted to the Program Director. A copy will be retained in the student's advising file.
- Students who earn six (6) credits of *C* in Special Education Program courses may be dismissed from the program. Students who earn an *F, NC,* or *U* in any Special Education course in their Plan of Study may be dismissed from the program.
- Students dismissed from the program may not reapply to this program.

Additional Certification Requirements

All Special Education majors must pass the Praxis II Test in the area(s) in which they seek endorsement. The Special Education Content Specialization Test is taken at or near the end of the certification coursework in Special Education. Students should contact the Special Education program area for additional information about these tests.

Special Note

The reauthorization of the Individuals with Disabilities Education Act (IDEA) has strengthened the requirements in the definition of "highly qualified" for special education teachers if they provide direct instruction in core academic subject areas (English, mathematics, science, etc.). Applicants' transcripts and teacher licenses will be analyzed upon admission to determine what, if any, additional coursework may be required to meet the federal requirements.

Plan of Study

M.A. in Special Education

Code	Title	Credit Hours
Master's Degree Requirements		
CISP 611	Special Ed Research I	3
CISP 615	Special Ed Research II	3
CISP 627	Issues Special Education	3
or CISP 629	Special Education Seminar	
Special Education Core		
CISP 520	Intro to Exceptional Child	3
CIEC 534	Appli Software Class Curr Area	3
CISP 606	Reading Strat Except Student	3
CISP 607	Math Strat Except Students	3
CIRG 644	Literacy in the Content Area	3
CISP 626	Diagnostic-Clin Practices	3
Certification Area		
Select one of the following:		9-15
Deaf and Hard of Hearing (p.)		
Vision Impaired (p.)		
Multicategorical (p.)		
Electives		
Select 0 - 9 credit hours		0-9
Total Credit Hours		**36-51**

Certification Areas listed in Areas of Emphasis section.

- Deaf and Hard of Hearing (p. 158)
- Multi-Categorical Special Ed (p. 159)
- Preschool Special Education (p. 159)
- Visually Impaired (p. 159)

Deaf and Hard of Hearing

Deaf and Hard of Hearing

Area of Emphasis for Master of Arts in Special Education

Special education core not required.

Code	Title	Credit Hours
CIDH 501	American Sign Language I	3
CIDH 502	American Sign Language II	3
CIDH 504	Auditory Habilitation	3
CIDH 505	Intro Deaf & Hard of Hearing	3
CIDH 506	Curr & Meth Deaf/Hard of Hear	3
CIDH 601	Teach Intern & Pract I (Deaf/Hard of Hearing) (Residential)	3
CIDH 602	Tech Intern & Pract II (Deaf/Hard of Hearing) (Local School District)	3
CIDH 607	Dev & Remed of Rdg/Writ/Disc (for the Deaf and Hard of Hearing)	3
CISP 607	Math Strat Except Students	3

CIEC 534	Appli Software Class Curr Area	3
Total Credit Hours		**30**

Non-Education Certification Program

In addition to the Special Education Core and Certification Area course requirements, students in the Non-Education Certification program must complete EDF 619 Educational Psychology and EDF 616 Adv Studies Human Develop for certification. Additional master's degree requirements are the same as for all other Special Education master's degree programs.

Multi-Categorical Special Ed

Multicategorical

Area of Emphasis for Master of Arts in Special Education

Code	Title	Credit Hours
CISP 553	Characteristics Methods ID	3
CISP 647	Char/Mthd Spec Lrn Disabilties	3
CISP 645	Characteristics Methods E/BD	3
CISP 655	Field Exp: Multi-Categorical	3
Total Credit Hours		**12**

Non-Education Certification Program

In addition to the Special Education Core and Certification Area course requirements, students in the Non-Education Certification program must complete EDF 619 Educational Psychology and EDF 616 Adv Studies Human Develop for certification. Additional master's degree requirements are the same as for all other Special Education master's degree programs.

Preschool Special Education

Preschool Special Education

Area of Emphasis for Master of Arts in Special Education

Code	Title	Credit Hours
General Education		
EDF 621	Educ Research & Writing	3
or EDF 625	Qualitative Research Educ	
CISP 627	Issues Special Education	3
or CISP 629	Special Education Seminar	
Early Childhood Education		
CI 632	Early Childhood Programs	3
CI 634	Lang/Cog Early Childhood	3
Special Education		
CISP 520	Intro to Exceptional Child	3
CISP 529	Intro to Develop Disabilities	3
CISP 554	Families of Except Students	3
CISP 661	Intro Preschool Sp Ed	3
CISP 663	Dev Issue Preschool Hand	3
CISP 665	Assess Preschool Sp Ed	3
CISP 666	Curr/Meth Preschool Sp Ed	3
CISP 673	Clirical: Preschool Sp Ed	3
CISP 674	Field Exp: Preschool Sp Ed	3
Total Credit Hours		**39**

Due to the nature of a student's undergraduate program the total required in Preschool Special Education may only be 36.

Non-Education Certification Program

In addition to the Special Education Core and Certification Area course requirements, students in the Non-Education Certification program must complete EDF 619 Educational Psychology and EDF 616 Adv Studies Human Develop for certification. Additional master's degree requirements are the same as for all other Special Education master's degree programs.

Visually Impaired

Visually Impaired

Area of Emphasis for Master of Arts in Special Education

Special education core not required.

Code	Title	Credit Hours
CIVI 500	Intro Visual Impair	3
CIVI 501	Reading/Writing Strat Vis Imp	3
CIVI 502	Anat Phys Human Vis Sys	3
CIVI 503	Assess/Prog Plan Vis Impaired	3
CIVI 504	Assess/Plan Vis Imp Add'l Dis	3
CIVI 505	Braille	3
CIVI 600	Math Methods/Visual Impairment	3
CIVI 601	Practicum Vis Imp I	1-6
CIVI 602	Pract in Visual Imp II	3
CIVI 603	Orientation & Mobility Skills	3
CIEC 534	Appli Software Class Curr Area	3
Total Credit Hours		**31-36**

Non-Education Certification Program

In addition to the Special Education Core and Certification Area course requirements, students in the Non-Education Certification program must complete EDF 619 Educational Psychology and EDF 616 Adv Studies Human Develop for certification. Additional master's degree requirements are the same as for all other Special Education master's degree programs.

Supervisor of Instruction, Licensure

Marshall University's program is currently being revised. Contact the Leadership Studies program for information.

Teaching English as a Second Language (Non-Licensure), Graduate Certificate

Program Description

The Graduate Certificate in Teaching English as a Second Language may also be completed as an area of emphasis within the M.A. in Education. This certificate includes both licensure and non-licensure tracks. The licensure track is designed for teachers seeking to add the Teaching English as a Second Language (K-12) endorsement. The goal of this certificate program is to prepare participants to work with learners whose first language is other than English. Satisfactory completion of the certificate program and state licensure requirements leads to the addition of a Teaching English as a Second Language (K-12) endorsement on an existing, current, regular, teaching license.

Admission Requirements

Prospective certificate-only students should apply for admission to Marshall University as a Certificate/Professional Development student and select, on the application form, the certificate they wish to pursue. Applicants must have:

- A baccalaureate degree from an accepted, accredited institution with an undergraduate Grade Point Average (GPA) of 2.50 or higher on a 4.0 scale; **or**
- A master's degree from an accepted, regionally accredited institution.

Applicants may be asked to submit additional materials, such as documentation of current teacher licensure, before an admission decision is made.

Teaching English As A Second Language (Option 2: Non-Licensure)

Code	Title	Credit Hours
CISL 550	Second Language Acquisition	3
CISL 551	Linguistics for ESL	3
CISL 552	Intercultural Comm/ESL	3
CISL 653	Methods ESL:Language	3
CISL 654	Methods ESL: Literacy	3
Select one of the following:		3
CIEC 534	Appli Software Class Curr Area	
CIEC 600	Instructional Design & Tech	
CIEC 635	Using Internet in Classroom	
Advisor-approved elective		3
Total Credit Hours		**21**

Teaching, M.A.T.

Program Description

Master of Arts in Teaching

The Master of Arts in Teaching (M.A.T.) degree program is an alternative means for college graduates with degrees in liberal arts, fine arts, and professional fields to attain teacher certification. The program provides the professional education courses and clinical experiences, including student teaching, necessary to prepare individuals for teaching a specific content area in grades PreK-Adult, 5-Adult or 9-Adult. Program completion results in the awarding of a Master of Arts in Teaching degree. Recommendation for certification typically takes place at the same time, unless there are West Virginia Department of Education requirements still pending. Please note that the M.A.T. program does not offer certification in Elementary Education or Special Education.

Program Options and Degree Requirements:

Master of Arts in Teaching

Grades PreK-Adult

- Art Education
- Music Education
- Wellness

Grades 5-Adult

- English
- Mathematics
- General Science
- Social Studies

Grades 9-Adult

- Biology
- Chemistry
- Physics

Post-Baccalaureate Teachers Certificate (p. 154)

Admission Requirements

Admission Requirements

Master of Arts in Teaching (M.A.T.)

1. Candidates must hold a bachelor's degree from an accepted, accredited institution (transcript required from degree-granting institution only).
2. Candidates deciding to apply to the program after reviewing the transcript analysis should follow the admissions process described in this catalog or at the Graduate Admissions website at www.marshall.edu/graduate/admissions/how-to-apply-for-admission (http://www.marshall.edu/graduate/admissions/how-to-apply-for-admission/). Students should apply as Certificate/Professional Development students and select the Post-Baccalaureate Teacher Certificate on the admissions form. Please note that all admissions documents must be submitted to Graduate Admissions before an applicant will be considered for admission.
3. In addition to university admission requirements, applicants must have an overall Grade Point Average (GPA) of 2.80 or higher on a 4.0 scale for all previously completed coursework and a GPA of

2.80 in the content area. Applicants who have an overall GPA of 2.5 or above, but below 2.80, may be granted provisional admission. Provisionally admitted applications will be granted full admission upon successful completion of 12 hours toward the approved plan of study with a GPA of 3.25 or higher, assuming that all other admission requirements are met.

Students may enroll in graduate courses only after they have been fully admitted to the university and the M.A.T. program. All students must maintain a cumulative Grade Point Average of 3.0.

In the last semester of the program students will be enrolled in EDF 677 MAT Level III Clinical Exper, a 15 week, full-time student teaching experience under the direct supervision of a certified teacher(s). Prerequisites for student teaching include the following:

- 3.0 GPA in all graduate MAT courses;
- completion of at least 90% of content courses (100% recommended);
- completion of EDF 537 MAT Level I Clinical Exper and EDF 637 MAT Level II Clinical Exper;
- completion of all MAT coursework and
- passing scores on the Praxis content test(s).

Before a candidate may apply for certification/licensure, he or she must pass or meet waiver requirements for the Praxis: Core Academic Skills for Educators, Praxis: Content, and Praxis Principles of Learning and Teaching (PLT) Grades 7-12.

Upon completion of the MAT program and all testing requirements, the student should apply for licensure. The teaching license is awarded by the West Virginia Department of Education; however, the candidate must be recommended for licensure by the institution.

Plan of Study

Master of Arts in Teaching

Code	Title	Credit Hours
Foundations of Education and Technology		
Research and Writing		
EDF 622	Action Research in Education	3
Social and Cultural Foundations		
EDF 665	Sociology of Amer Schools	3
or EDF 615	Hist of Education in US	
Development or Psychology		
EDF 616	Adv Studies Human Develop	3
or EDF 619	Educational Psychology	
Instructional Technology		
CIEC 534	Appli Software Class Curr Area	3
or CIEC 635	Using Internet in Classroom	
Evaluation or Assessment		
EDF 612	Educational Evaluation	3
or EDF 636	Advanced Classroom Assessment	
Curriculum and Instruction		
CISP 510	Instructional Prac/Excep Child	3
CISP 520	Intro to Exceptional Child	3
CI 515	Int Meth & Mat: Sec Ed	3
EDF 537	MAT Level I Clinical Exper [1]	0
EDF 637	MAT Level II Clinical Exper	0
CI 549	Instr & Clrm Mgt Sec Ed	3
CI 623	Instruct Models Assess Tech	3
CIRG 644	Literacy in the Content Area	3
EDF 677	MAT Level III Clinical Exper [1]	3
In addition to the preceding courses, students must also complete all courses in their teaching specialization.		
Total Credit Hours		**36**

[1] Requires minimum of 90% completion of content courses and passing score(s) on the Praxis content examination(s).

Violence, Loss and Trauma Counseling, Graduate Certificate

Graduate Certificate of Advanced Studies in Violence, Loss and Trauma Counseling (VoLT certificate)

Applicants who have obtained a master's degree in behavioral health disciplines (counseling, psychology, school psychology, social work, etc.) or who are concurrently enrolled in one of these programs are eligible to apply for the VoLT certificate. They must follow one of these two routes:

- Students currently enrolled in Marshall University's Counseling program are eligible to apply for the VoLT certificate through the Secondary Program Request form (https://www.marshall.edu/graduate/files/Secondary-Program-Request-Form-082821.pdf). Adding the VoLT certificate through the Secondary Program Request Form does not require an application, fee or transcrjpts. Interested students should ask their academic advisors for guidance on adding the VoLT certificate. Students currently enrolled in a non-Counseling master's degree program at Marshall University should apply to the VoLT certificate through the Office of Graduate Admissions. Applying to the VoLT certificate from within Marshall University does not require a fee or transcripts. Interested students should ask their academic advisors for guidance on the application process.
- All other applicants should apply for the VoLT certificate through the Office of Graduate Admissions. Applicants within Marshall University will not need an application fee or a transcript. Applicants from outside Marshall University will need an application fee and a transcript from their current or degree-granting university.

Admission Requirements

Students already enrolled in the Counseling program, in the Clinical Mental Health Counseling area of emphasis, should submit to the Counseling program a Secondary Program Request form (https://www.marshall.edu/graduate/current-students/forms-and-information/).

Prospective VoLT certificate students should apply for admission to Marshall University as a certificate student. It is expected that enrollees

of the VoLT certificate will be engaged in clinical practice or some support aspect of direct client service and/or intervention where family violence, bereavement, or trauma have been identified or suspected.

Admission requirements for the certificate program include the following:

- Concurrent enrollment in a master's degree in counseling, social work, psychology, or related field, OR
- A master's degree in counseling, social work, psychology, or related field, AND
- A graduate GPA of at least 3.5 based on at least 12 semester credit hours (four courses), AND
- Departmental approval.

Course Requirements

Code	Title	Credit Hours
Required Courses		*12*
COUN 555	Crisis Int & Conf Res [1]	
COUN 556	Death & Grief Counseling [2]	
COUN 654	Family Violence [2]	
COUN 682	Tr in Trauma Recovery [2]	
Select 6 hours from the following		*6*
COUN 683	Psychophys of Trauma	
COUN 684	Treating Complex Trauma & Loss	
COUN 685	Military Cult & Treat Vets	
COUN 686	Trauma and Suffering	
COUN 687	Tr Rest Jus Sch Comm	
Total Credit Hours		**18**

[1] Pre-/co-requisite for the certificate.
[2] Required for the certificate.

College of Engineering and Computer Sciences

Contacts: Dr. David Dampier, Dean ; Dr. Greg Michaelson, Associate Dean
Website: http://www.marshall.edu/cecs (http://www.marshall.edu/cecs/)

cecs@marshall.edu

Programs

- Civil and Environmental Engineering, Accelerated Graduate Degree (p. 174)
- Civil and Environmental Engineering, M.S.E. (p. 174)
- Computer Science, Accelerated Graduate Degree (p. 176)
- Computer Science, M.S. (p. 177)
- Cybersecurity, Accelerated Graduate Degree (p. 178)
- Cybersecurity, M.S. (p. 179)
- Data Science, Accelerated Graduate Degree (p. 180)
- Data Science, M.S. (p. 181)
- Electrical and Computer Engineering M.S.E.E. (p. 182)
- Electrical and Computer Engineering, Accelerated Graduate Degree (p. 184)
- Engineering Management, B.S.C.E. Accelerated Graduate Degree (p. 184)
- Engineering Management, B.S.E.E. Accelerated Graduate Degree (p. 185)
- Engineering Management, M.S.E. (p. 186)
- Engineering, Ph.D. (p. 187)
- Environmental Safety and Health, Accelerated Graduate Degree (p. 189)
- Environmental Science, Minor (p. 190)
- Environmental, Safety and Health, M.S. (p. 190)
- Mechanical Engineering, M.S.M.E. (p. 191)
- Safety, M.S. (p. 193)
- Safety, Minor (p. 194)

Courses

Civil Engineering

CE 534 Geometric Highway Design **3 Credit hours**
Highway planning and design, including the capacity, horizontal alignment, vertical alignment, roadside design, traffic control, and other related aspects. Types of facilities discussed will include roadways, sidewalks, intersections, and interchanges.
Grade Mode: Normal Grading Mode

CE 538 Pavement Design **3 Credit hours**
Design of highway pavement systems, subgrades, subbases and bases, soil stabilization, flexible and rigid pavements; cost analysis and pavement selection; traffic data collection; drainage; earthwork; pavement evaluation and maintenance.
Grade Mode: Normal Grading Mode

CE 580 Special Topics **3 Credit hours**
Formal study of civil engineering topics of current interest.
Grade Mode: Normal Grading Mode

CE 612 Advanced Steel Design **3 Credit hours**
Background of AISC 360, emphasizing building applications. Analysis method for second-order effects. Composite member design. Plate girders. Splices and bracing connections. Eccentric connections. Wind and seismic applications.
Grade Mode: Normal Grading Mode

CE 614 Advanced Concrete Design **3 Credit hours**
Background of ACI 318, emphasizing building applications. Precast elements. Moment frames and shear walls. Continuous construction. Foundations and earth-retaining structures. Two-way slab design methods. Strut-and-tie analogies. Column supported slabs.
Grade Mode: Normal Grading Mode

CE 616 Prestressed Concrete Design **3 Credit hours**
Behavior and design of prestressed concrete beams, columns, and beam-columns, emphasizing highway bridge applications. Methods of prestressing and loss estimation for precast and cast-in-place elements.
Grade Mode: Normal Grading Mode

CE 618 Bridge Engineering **3 Credit hours**
Analysis, design, and rating of bridges according to AASHTO specifications, emphasizing steel superstructures. Detailing of elements and systems based on strength, serviceability, constructability, and fatigue requirements.
Pre-req: CE 616.
Grade Mode: Normal Grading Mode

CE 634 Traffic Engineering **3 Credit hours**
Design and application of signs, markings, and signals;timing of isolated and interconnected signals; speed regulation; one-way streets; capacity and analysis of highway facilities.
Grade Mode: Normal Grading Mode

CE 635 Eval of Transportation Systems **3 Credit hours**
Concepts of transportation economic analysis, transportation costs and benefits, needs studies, finance and taxation, methods of evaluation of plans and projects, environmental impact assessment.
Grade Mode: Normal Grading Mode

CE 636 Transportation Planning **3 Credit hours**
Techniques used to plan urban transportation systems; data collection, trip generation, trip distribution, mode choice, traffic assignment, modeling and evaluation techniques; travel demand modeling.
Grade Mode: Normal Grading Mode

CE 637 Highway Safety Engineering **3 Credit hours**
Traffic safety studies including: crash analysis, control and geometry improvements, hazard and countermeasures identification, before-and-after studies; data collection and computer tools for highway traffic and safety evaluation.
Grade Mode: Normal Grading Mode

CE 639 Infrastructure Management **3 Credit hours**
Application of decision analysis, mathematical programming, performance modeling and various heuristics to develop management plans for transportation infrastructure assets, primarily focusing on highway pavements and bridges.
Grade Mode: Normal Grading Mode

CE 650 Special Topics Civil Engr **3 Credit hours**
Selected topics of special and current interest to civil engineers.
Grade Mode: Normal Grading Mode

Computer & Info Security

CYBR 500 Computer Security Design **3 Credit hours**
The course covers technical and analytical skills to implement comprehensive computer security that encompass designing secure systems, information security, protecting information assets, managing computer security, risk mitigation strategies, and incident response.
Grade Mode: Normal Grading Mode

CYBR 510 Intro to Cybersecurity **3 Credit hours**
This course provides an overview of the cybersecurity field, the basic foundations of the current technology and its impacts along with the predominant threat components and remediation.
Grade Mode: Normal Grading Mode

CYBR 530 Cybersec Policies & Mgmt **3 Credit hours**
The course covers risk management, integrating continuous monitoring and real-time security solutions with information systems to improve situational awareness and deployment of countermeasures.
Grade Mode: Normal Grading Mode

CYBR 535 Cyber Risk **3 Credit hours**
The functions and purposes of the latest developments in cybersecurity are covered. Topics include design, implementation, testing industrial networks and applications to ensure their security and reliability.
Pre-req: CYBR 510 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CYBR 542 Cyber Operations **3 Credit hours**
Study of various concepts and aspects in choosing, deploying, supporting, troubleshooting, and securing various local and distributed components of cyber operation.
Pre-req: CYBR 530 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CYBR 615 Cyber Vulnerability Assess **3 Credit hours**
This course focuses on the complete cycle of enterprise security from identifying vulnerabilities, detecting application exploitation and post exploitation mitigations and analysis for an enterprise level cyber infrastructure.
Grade Mode: Normal Grading Mode

CYBR 620 Cyberwarfare **3 Credit hours**
The course covers both offensive and defensive techniques pertaining to cybersecurity from techniques to find vulnerabilities and analyze the likelihood of an attack to developing solutions to secure cyber infrastructure.
Grade Mode: Normal Grading Mode

CYBR 625 Applied Cryptography **3 Credit hours**
This course introduces fundamentals of cryptography, including classical ciphers, Shannon's perfect secrecy, DES, AES, public-key crypto (RSA), as well as advanced cryptographic schemes.
Grade Mode: Normal Grading Mode

CYBR 680 Research in Cybersecurity **3 Credit hours**
This course covers various research methods and current significant findings in the field of cybersecurity.
Pre-req: CYBR 510 with a minimum grade of D.
Grade Mode: Credit/No Credit Grade Only

CYBR 681 Thesis **3 Credit hours**
Investigate a research problem of theoretical interest and practical value under mentorship of a cybersecurity faculty.
Pre-req: CYBR 680 with a minimum grade of D.
Attributes: Thesis
Grade Mode: Credit/No Credit Grade Only

CYBR 685 Independent Study **1-4 Credit hours**
Faculty supervised, individualized course of study.
Grade Mode: Normal Grading Mode

CYBR 698 Internship **1-6 Credit hours**
Supervised work experience in Cybersecurity.
Attributes: Onsite Learning Experience
Grade Mode: Credit/No Credit Grade Only

Computer Science

CS 502 Computer Architecture **3 Credit hours**
Design and analyze structure of major hardware components of computers including: ALU, instruction sets, memory hierarchy and caching, parallelism through multicore and many core, GPGPUs, storage systems and interfaces.
Grade Mode: Normal Grading Mode

CS 504 High Performance Computing **3 Credit hours**
Learn how to develop highly optimized applications for multi-core processors and clusters using software tools, parallel algorithms, performance profilers, and programming constructs in MPI, OpenMP, MapReduce, CUDA, and OpenCL.
Grade Mode: Normal Grading Mode

CS 505 Computing for Bioinformatics **3 Credit hours**
Study of computational algorithms and programming techniques for various bioinformatics tasks including parsing DNA files, sequence alignments, tree construction, clustering, species identification, principal component analysis, correlations, and gene expression arrays.
Grade Mode: Normal Grading Mode

CS 510 Advanced Database Systems **3 Credit hours**
This course introduces advanced topics in database systems including distributed systems, distributed databases, Big Data, cloud service, semantic web, web services, information security & privacy, and electronic commerce.
Grade Mode: Normal Grading Mode

CS 511 Advanced Programming **3 Credit hours**
The course covers advanced topics in Python programming including the use of parallel computation and GPU acceleration and investigate how to exploit frameworks such as Hadoop and Spark.
Grade Mode: Normal Grading Mode

CS 512 Embedded Systems **3 Credit hours**
The design of systems containing embedded computers. Micro-controller technology, assembly language and C programming, input/output interfacing, data acquisition hardware, interrupts, and timing. Real-time operating systems and application programming. Application examples.
Grade Mode: Normal Grading Mode

CS 515 Data Mining **3 Credit hours**
Covers (1) the process of knowledge discovery, (2) algorithms (association rules, classification, and clustering), and (3) real-world applications. Focuses on efficient data mining algorithms and scaling up data mining methods.
Grade Mode: Normal Grading Mode

CS 540 Digital Image Processing **3 Credit hours**
Study of mathematical techniques and algorithms for image sampling, quantization, intensity transformations, spatial filtering, Fourier transforms, frequency domain filtering, restoration and reconstruction, color imaging, wavelets, morphological image processing, and segmentation.
Grade Mode: Normal Grading Mode

CS 550 Information Retrieval **3 Credit hours**
Study of theory and algorithms for modeling and retrieving text. Text representation, IR models, query operations, retrieval evaluation, information extraction, text classification and clustering, enterprise and Web search, recommender systems.
Grade Mode: Normal Grading Mode

CS 552 Natural Lang Processing **3 Credit hours**
Fundamental algorithms and computational models for core tasks in natural language processing: word and sentence tokenization, parsing, information and meaning extraction, spelling correction, text summarization, question answering, and sentiment analysis.
Grade Mode: Normal Grading Mode

CS 580 Special Topics **1-4 Credit hours**
Study of emerging and advanced topics in Computer Science. Topics vary with instructor and change from one semester to another.
Grade Mode: Normal Grading Mode

CS 581 Special Topics **1-4 Credit hours**
Study of emerging and advanced topics in Computer Science. Topics vary with instructor and change from one semester to another.
Grade Mode: Normal Grading Mode

CS 582 Special Topics **1-4 Credit hours**
Study of emerging and advanced topics in Computer Science. Topics vary with instructor and change from one semester to another.
Grade Mode: Normal Grading Mode

CS 583 Special Topics **1-4 Credit hours**
Study of emerging and advanced topics in Computer Science. Topics vary with instructor and change from one semester to another.
Grade Mode: Normal Grading Mode

CS 600 Advanced Web Technology **3 Credit hours**
This course introduces modern web technologies and covers the concepts, practices, and technologies to design, develop, and manage scalable, reliable and secure web applications using client side and server side programming, mobile technology, web services, rest services, and cloud services that are accessible to a large number of users.
Grade Mode: Normal Grading Mode

CS 601 The Internet of Things **3 Credit hours**
This course covers the Internet of Things (IoT) Technologies. The course includes advanced topics in wireless networking technologies, mobile networks, software and hardware design for IoT applications and systems. In addition, this course offers advanced topics in cybersecurity.
Grade Mode: Normal Grading Mode

CS 602 Cloud Computing **3 Credit hours**
Study of emerging and advanced topics in Cloud Computing including theory and application development in cloud and understand the ways of increasing quality of services for hosted applications.
Grade Mode: Normal Grading Mode

CS 605 Software Specifications **3 Credit hours**
Study of software specification and verification technologies that facilitate: semantic reasoning; and verification of development artifacts including functional models, architecture, and source-code implementations.
Grade Mode: Normal Grading Mode

CS 610 Software Design **3 Credit hours**
Study of approaches to software design that meet availability, manageability, maintainability, performance, reliability, scalability, and securability goals. Emphasis is on object-oriented analysis and design, design patterns and metrics.
Grade Mode: Normal Grading Mode

CS 615 Software Testing **3 Credit hours**
Study of methods and tools to design high quality tests during all phases of software development. Topics include test design, test automation, test coverage criteria, and how to test software.
Grade Mode: Normal Grading Mode

CS 620 Applied Algorithms **3 Credit hours**
Study of clustering, graph-theoretic, genetic, probabilistic and randomized algorithms and their application to machine learning, data streams, data mining, computer vision, natural language processing, information retrieval, and bioinformatics.
Grade Mode: Normal Grading Mode

CS 625 AI Principles and Methods **3 Credit hours**
Study of machine learning and statistical pattern recognition algorithms and their application to data mining, bioinformatics, speech recognition, natural language processing, robotic control, autonomous navigation, text and web data processing.
Grade Mode: Normal Grading Mode

CS 630 Machine Learning **3 Credit hours**
Study of machine learning and statistical pattern recognition algorithms and their application to data mining, bioinformatics, speech recognition, natural language processing, robotic control, autonomous navigation, text and web processing.
Grade Mode: Normal Grading Mode

CS 645 Advanced Topics Bioinformatics **3 Credit hours**
Study of advanced algorithms, data structures, and architectures required for solving complex problems in Bioinformatics. Focus is on analysis of patterns in sequences and 3D-structures. Team taught seminar course.
Grade Mode: Normal Grading Mode

CS 650 Special Topics **1-4 Credit hours**
Study of emerging and advanced topics in Computer Science. Topics vary with instructor and change from one semester to another.
Grade Mode: Normal Grading Mode

CS 651 Special Topics **1-4 Credit hours**
Study of emerging and advanced topics in Computer Science. Topics vary with instructor and change from one semester to another.
Grade Mode: Normal Grading Mode

CS 652 Special Topics **1-4 Credit hours**
Study of emerging and advanced topics in Computer Science. Topics vary with instructor and change from one semester to another.
Grade Mode: Normal Grading Mode

CS 653 Special Topics **1-4 Credit hours**
Study of emerging and advanced topics in Computer Science. Topics vary with instructor and change from one semester to another.
Grade Mode: Normal Grading Mode

CS 660 Big Data Systems **3 Credit hours**
Learn high performance computing architectures and methods for developing and querying databases for Big Data.
Grade Mode: Normal Grading Mode

CS 670 Visual Analytics **3 Credit hours**
Study of approaches, algorithms, and tools for Big Data exploration, analysis, and interpretation to enable novel discoveries and innovation. Integrating analytic capabilities of computers and domain knowledge of human analysts.
Grade Mode: Normal Grading Mode

CS 681 Thesis **1-6 Credit hours**
Investigate a research problem of theoretical interest and practical value under mentorship of a computer science faculty.
Attributes: No Textbook Required, Thesis
Grade Mode: Credit/No Credit Grade Only

CS 685 Independent Study **1-4 Credit hours**
Pursue faculty supervised, individualized course of study of a topic which is not currently a part of the Computer Science graduate curriculum.
Grade Mode: Normal Grading Mode

CS 686 Independent Study **1-4 Credit hours**
Pursue faculty supervised, individualized course of study of a topic which is not currently a part of the Computer Science graduate curriculum.
Grade Mode: Normal Grading Mode

CS 687 Independent Study **1-4 Credit hours**
Pursue faculty supervised, individualized course of study of a topic which is not currently a part of the Computer Science graduate curriculum.
Grade Mode: Normal Grading Mode

CS 688 Independent Study **1-4 Credit hours**
Pursue faculty supervised, individualized course of study of a topic which is not currently a part of the Computer Science graduate curriculum.
Grade Mode: Normal Grading Mode

CS 690 Comprehensive Project **3 Credit hours**
Develop expertise in an emerging area of computer science through guided study under faculty mentorship.
Attributes: No Textbook Required
Grade Mode: Credit/No Credit Grade Only

CS 698 Internship **1-3 Credit hours**
Supervised work experience in computer science or related fields.
Attributes: No Textbook Required, Onsite Learning Experience
Grade Mode: Credit/No Credit Grade Only

Electrical Engineering

EE 502 Instrumentation **3 Credit hours**
Grade Mode: Normal Grading Mode

EE 503 Power Systems **3 Credit hours**
Grade Mode: Normal Grading Mode

EE 504 Principles and Practices-EE **2 Credit hours**
Grade Mode: Normal Grading Mode

EE 510 Design Digital Systems **3 Credit hours**
This course provides fundamental understanding of Digital circuits. Students learn the essentials of digital circuit operation, design and simulate digital circuits using the techniques of practicing electrical and computer engineers.
Grade Mode: Normal Grading Mode

EE 511 Analog Computation **3 Credit hours**
Grade Mode: Normal Grading Mode

EE 514 Linear Systems **3 Credit hours**
Grade Mode: Normal Grading Mode

EE 515 Digital Signal Processing **3 Credit hours**
Grade Mode: Normal Grading Mode

EE 529 Linear Systems & Control **3 Credit hours**
The course provides a rigorous introduction to the analysis and control of linear dynamical systems in the time domain. The course introduces the fundamentals of linear spaces and linear operator theory.
Grade Mode: Normal Grading Mode

EE 530 Cyber-Physical Systems **3 Credit hours**
This course provides an introduction to modeling and analysis of cyber-physical systems. Several models of continuous-time systems and discrete-time systems are introduced.
Grade Mode: Normal Grading Mode

EE 535 Power System Protection **3 Credit hours**
This course covers the power system faults and application of relays for power system protection. Symmetrical components as applied fault currents. Introduction to digital filtering, microprocessor, computer simulation for relays.
Grade Mode: Normal Grading Mode

EE 585 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

EE 586 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

EE 587 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

EE 588 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

EE 601 Power Systems Analysis **3 Credit hours**
Grade Mode: Normal Grading Mode

EE 602 Random Signals & Noise **3 Credit hours**
This course provides an introduction to the fundamentals of random variables, random signals, and simulation of random phenomena.
Grade Mode: Normal Grading Mode

EE 603 Protectve Relaying in Powr Sys **3 Credit hours**
Grade Mode: Normal Grading Mode

EE 604 Electrical Machinery **3 Credit hours**
Grade Mode: Normal Grading Mode

EE 605 Comptr Meth in Power Sys Anly **3 Credit hours**
Grade Mode: Normal Grading Mode

EE 606 Electrical Analysis **3 Credit hours**
This course covers Laplace transform for boundary-value problem, applications to control theory, frequency response of ordinary differential equations, linear algebra techniques; eigenvalue analysis of linear systems and in multivariate optimization.
Grade Mode: Normal Grading Mode

EE 607 Adv Electrical Engr **3 Credit hours**
This course covers complex functions, complex integration, vectors, matrices, functions of matrices, Cayley-Hamilton theorem, state-space modeling, optimization techniques, least squares technique, total least squares, and numerical techniques.
Grade Mode: Normal Grading Mode

EE 608 Research Methods **3 Credit hours**
Overview of research methods in engineering. Research theory, design, ethics, and practice. Research plan and proposal. Experimental, numerical, and analytical research. Reviewing literatures, collect and analyze data quantitatively and qualitatively.
Grade Mode: Normal Grading Mode

EE 611 Digital Design **3 Credit hours**
This course covers the CMOS circuits. Design approaches with emphasis placed on structured full custom design, MOS device, critical interconnect and gate characteristics. CMOS logic design from transistor to fabrication.
Grade Mode: Normal Grading Mode

EE 615 Real Time Systems **3 Credit hours**
This course covers the Designing real-time embedded systems from a hardware and software perspective. Communications and signal processing systems. Applications to seismic monitoring, process control, and biomedical systems.
Grade Mode: Normal Grading Mode

EE 618 Data & Comm Networks **3 Credit hours**
This course introduces the underlying concepts behind networking using the internet and its protocols as examples.
Grade Mode: Normal Grading Mode

EE 624 Wireless Communication **3 Credit hours**
This course introduces fundamental technologies for wireless communication.
Grade Mode: Normal Grading Mode

EE 630 Robust Control **3 Credit hours**
Linear systems, norms for signals and systems, stability and performance, uncertainty and robustness, parameterization of stabilizing controllers, algebraic Riccati equations, H2 control, and H infinity control.
Grade Mode: Normal Grading Mode

EE 631 Optimal Control **3 Credit hours**
The course introduces the theory of Optimal Control. It covers evaluation methods for control signals that satisfy some physical constraints and minimize or maximize some performace measures.
Grade Mode: Normal Grading Mode

EE 636 Power System Operation **3 Credit hours**
This course covers modern power systems, operational, control problems, solution techniques. State estimation, contingency analysis, load-frequency control and automatic generation control, load flow analysis and external equivalents for steady-state operations.
Grade Mode: Normal Grading Mode

EE 638 Nonlinear Sys & Control **3 Credit hours**
The course provides a rigorous introduction to the analysis and control of nonlinear dynamical systems in time domain.
Grade Mode: Normal Grading Mode

EE 639 Renew Energy & Dist Generation **3 Credit hours**
This course covers the fundamentals of energy and sustainability; power efficiency; hydro, wind, solar, fuel systems; Converters and controllers for integration of renewable energy sources; Smart grid, hybrid generation systems.
Grade Mode: Normal Grading Mode

EE 642 Pattern Recognition 1 **3 Credit hours**
Grade Mode: Normal Grading Mode

EE 643 Pattern Recognition 2 **3 Credit hours**
Grade Mode: Normal Grading Mode

EE 650 Special Topics **1-4 Credit hours**
Subject matter to be selected from topics of current interest.
Grade Mode: Normal Grading Mode

EE 651 Special Topics **1-4 Credit hours**
Subject matter to be selected from topics of current interest.
Grade Mode: Normal Grading Mode

EE 652 Special Topics **1-4 Credit hours**
Subject matter to be selected from topics of current interest.
Grade Mode: Normal Grading Mode

EE 653 Special Topics **1-4 Credit hours**
Subject matter to be selected from topics of current interest.
Grade Mode: Normal Grading Mode

EE 656 Semiconductr Switchng Circuits **3 Credit hours**
Grade Mode: Normal Grading Mode

EE 658 Linear Syst-State Space Appro **3 Credit hours**
Grade Mode: Normal Grading Mode

EE 661 Continuous & Digital Cntrl Sys **3 Credit hours**
Grade Mode: Normal Grading Mode

EE 681 Microprocessors-Prin & Appl 1 **3 Credit hours**
Grade Mode: Normal Grading Mode

EE 682 Microprocessors-Prin & Appl 2 **3 Credit hours**
Grade Mode: Normal Grading Mode

EE 683 Microcomputer-Based Design **3 Credit hours**
Surface and subsurface geology, geotechnical properties of soil and rock. Geotechnical engineering design aspects of landfills, groundwater barriers, tunneling. Mechnics of ground movements, sediment and erosion control. (PR: Engineering or Geology degree)
Grade Mode: Normal Grading Mode

EE 684 Unknown **3 Credit hours**

EE 685 Independent Study **1-4 Credit hours**
Independent study in which a student meets regularly with a faculty member to discuss assignments.
Grade Mode: Normal Grading Mode

EE 686 Independent Study **1-4 Credit hours**
Independent study in which a student meets regularly with a faculty member to discuss assignments.
Grade Mode: Normal Grading Mode

EE 687 Independent Study **1-4 Credit hours**
Independent study in which a student meets regularly with a faculty member to discuss assignments.
Grade Mode: Normal Grading Mode

EE 688 Independent Study **1-4 Credit hours**
Independent study in which a student meets regularly with a faculty member to discuss assignments.
Grade Mode: Normal Grading Mode

EE 690 Special Topics **1-6 Credit hours**
Grade Mode: Normal Grading Mode

EE 698 Design Project **3 Credit hours**
The course introduces the principles of product design: specifications, evaluation of design alternatives, technical reports and oral presentations. Intellectual property, industry standards and conventions, engineering economics, reliability, safety, engineering ethics.
Grade Mode: Normal Grading Mode

EE 699 Thesis **1-6 Credit hours**
This represents the course designation for a Master's Degree Research Thesis. Successful completion of a thesis fulfills the research requirement for the M.S. degree in Electrical Engineering.
Attributes: Thesis
Grade Mode: Normal Grading Mode

EE 790 Advanced Independent Study **3 Credit hours**

Engineering Management

EM 580 Special Topics **3 Credit hours**
Formal study of engineering management topics of current interest.
Grade Mode: Normal Grading Mode

EM 620 Mgt Tech HR & Orgs **3 Credit hours**
Principles leading to better management and development of technical human resources and organizations. Included are concepts technical managers need to positively change themselves and to lead others toward desired bahavior.
Grade Mode: Normal Grading Mode

EM 650 Special Topics **1-4 Credit hours**
Study of special topics of an advanced nature. (PR: Consent)
Grade Mode: Normal Grading Mode

EM 660 Project Management **3 Credit hours**
Provides the student with a practical knowledge of how to integrate effectively the functional efforts of many in the execution of programs and projects.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

EM 661 Project Mgmt in Practice **3 Credit hours**
Covers the Project Management Body of Knowledge. Designed to prepare project managers to pass the Project Management Professional exam, and to improve their skills as a project manager.
Grade Mode: Normal Grading Mode

EM 665 Mgt Engineering Organizations **3 Credit hours**
Techniques and methods for effective management of engineering firms, departments, and personnel. (PR: EM 601)
Grade Mode: Normal Grading Mode

EM 668 Operations Management **3 Credit hours**
Examination of the quantitative and conceptual tools for generating goods and services in manufacturing and non-manufacturing organizations.
Grade Mode: Normal Grading Mode

EM 670 Seminar in Engineering Mgt **3 Credit hours**
Provides the student an opportunity to examine issues in engineering management and to evaluate their consequences in organizations, in the profession, and in society. (PR: Consent)
Grade Mode: Normal Grading Mode

EM 675 Engineering Economics **3 Credit hours**
The concepts and methods for the financial calculations involving time, value of money and uncertainty. Capital and departmental budgeting processes and engineering inputs to cost accounting. (PR: Consent)
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

EM 694 Engineering Law **3 Credit hours**
The American legal system, contracts and specifications, liability of professional engineers, product liability, agency relationships, patent and proprietary rights, and special problems in contracts are studied.
Grade Mode: Normal Grading Mode

EM 699 Comprehensive Project in EM **3 Credit hours**
Grade Mode: Satisfactory/Unsatisfactory

Engineering & Science

ENGR 502 Microcomputer Wordprocessing **1 Credit hour**

ENGR 503 Microcomputer Telecommunicati **1 Credit hour**

ENGR 504 Microcomputer Database Appl **1 Credit hour**

ENGR 509 Microcomputer Applications **3 Credit hours**

ENGR 511 Technical Seminars **3 Credit hours**

ENGR 570 Finite Elements **3 Credit hours**
Theory and applications of the finite element method to problems in the area of static and dynamic structural analysis, heat transfer, fluids, and analogous solution.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

ENGR 610 Applied Statistics **3 Credit hours**
Practical application of statistical techniques to decision-making, forecasting, optimization, experimental design. Interpretation of data using central tendency and dispersion, t-test, F-test, variance analysis, correlation, and linear regression.
Grade Mode: Normal Grading Mode

ENGR 620 Computer Applications **3 Credit hours**
Introduction to current software technology to solve problems of interest to technical professionals. Covers the use of tables, databases, modeling, curve fitting, and solution of equations.
Grade Mode: Normal Grading Mode

ENGR 650 Special Topics **1-4 Credit hours**
Formal study of engineering topics of current interest. (PR: Consent)
Grade Mode: Normal Grading Mode

ENGR 651 Special Topics **1-4 Credit hours**
Formal study of engineering topics of current interest. (PR: Consent)
Grade Mode: Normal Grading Mode

ENGR 652 Special Topics **1-4 Credit hours**
Formal study of engineering topics of current interest. (PR: Consent)
Grade Mode: Normal Grading Mode

ENGR 653 Special Topics **1-4 Credit hours**
Formal study of engineering topics of current interest. (PR: Consent)
Grade Mode: Normal Grading Mode

ENGR 670 Advanced Stress Analysis **3 Credit hours**
Three-dimensional stress and strain, failuer criteria, advanced topics in structural mechanics, energy methods, introduction to the theory of elasticity, fundamentals of fracture mechanics.
Grade Mode: Normal Grading Mode

ENGR 682 Research **1-6 Credit hours**
Completion of research under the supervision of a faculty member. Six semester hours of credit in research are applied toward the Thesis Option in the engineering MS degrees.
Grade Mode: Credit/No Credit Grade Only

ENGR 685 Independent Study **1-4 Credit hours**
An approved study of special interest concerning engineering under the supervision of a faculty member. (PR: Consent)
Grade Mode: Normal Grading Mode

ENGR 686 Independent Study **1-4 Credit hours**
An approved study of special interest concerning engineering under the supervision of a faculty member. (PR: Consent)
Grade Mode: Normal Grading Mode

ENGR 687 Independent Study **1-4 Credit hours**
An approved study of special interest concerning engineering under the supervision of a faculty member. (PR: Consent)
Grade Mode: Satisfactory/Unsatisfactory

ENGR 688 Independent Study **1-4 Credit hours**
An approved study of special interest concerning engineering under the supervision of a faculty members. (PR: Consent)
Grade Mode: Normal Grading Mode

ENGR 695 Internship in Engineering **3 Credit hours**
Supervised on-the-job experience. The student will work in a technology or engineering company or department with an organization. (PR: Permission)
Attributes: Onsite Learning Experience
Grade Mode: Credit/No Credit Grade Only

ENGR 699 Comprehensive Project **3 Credit hours**
Completion of comprehensive project under the supervision of a faculty member. Includes final written submittal and public oral presentation. Fulfills engineering MS requirement for Project Option.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

ENGR 701 Research Methods for Doc **3 Credit hours**
An overview of research methodology, including basic concepts employed in quantitative and qualitative research, defining research problems, collecting, analyzing, recording, and interpreting data to prepare a proposal.
Grade Mode: Credit/No Credit Option

ENGR 702 Dissertation Research **1-12 Credit hours**
This course is to develop a dissertation with substantial research to contribute to the field of study under the supervision of a dissertation advisor and dissertation committee.
Pre-req: ENGR 701 with a minimum grade of C.
Grade Mode: Credit/No Credit Option

Environmental Engineering

ENVE 580 Special Topics **3 Credit hours**
Formal study of environmental engineering topics of current interest.
Grade Mode: Normal Grading Mode

ENVE 600 Special Topics in Envr Engr **1-3 Credit hours**
Grade Mode: Normal Grading Mode

ENVE 615 Environmental Chemistry **3 Credit hours**
Fundamental principles governing the various aspects of chemistry relevant to the environment will be addressed. The chemistry of waste treatment, cycle processes and other applications will be evaluated. (PR: Consent)
Grade Mode: Normal Grading Mode

ENVE 616 Wastewater Treatment Fac Dsgn **3 Credit hours**
Fundamental principles and applied practices of wastewater treatment facilities. Includes performance analysis, component selection, and system design for physical, chemical, and biological processes. (PR: ENVE 615)
Pre-req: ENVE 615.
Grade Mode: Normal Grading Mode

ENVE 617 Water Treatment Fac Design **3 Credit hours**
Fundamental principles and applied practices of water quality and water treatment facilities. Includes analysis of source waters, and design of physical and chemical system components. (PR: ENVE 615)
Grade Mode: Normal Grading Mode

ENVE 620 Solid Waste Management **3 Credit hours**
Solid waste management and minimization: options, methods, laws and regulations. Landfill design, testing, operation, monitoring, and closure. Use of composting in landfills. Incinerator design and operation. Separation and recycling approaches.
Grade Mode: Normal Grading Mode

ENVE 625 Hazardous Waste Manangement **3 Credit hours**
Options and methods of managing hazardous waste. Landfill design, testing, operation, monitoring, and closure. Incinerator design, testing, operation, and monitoring. Design and operation of treatment facilities. Waste reduction practices.
Grade Mode: Normal Grading Mode

ENVE 650 Special Topics **1-4 Credit hours**
Occasional special offerings in Environmental Engineering. (PR: Consent)
Grade Mode: Normal Grading Mode

ENVE 670 Hydrology and Drainage Control **1-6 Credit hours**
The goal of this course is to develop an understanding of watershed processes, including precipitation, generation of runoff, infiltration, stream flow, soil erosion, sediment transport and deposition, and fluvial geomorgphology.
Grade Mode: Normal Grading Mode

ENVE 671 Hydraulic Structures **3 Credit hours**
Analysis and design of water conveyance channels and hydraulic structures, such as siphons, chutes, weirs, flumes, dams, spillways, gates, locks, storm surge barriers, and outlet works.
Grade Mode: Normal Grading Mode

ENVE 672 Watershed Modeling **3 Credit hours**
Setup, execution, and calibration of numerical watershed models. Includes the rational method, TR-55, HEC-1, and HEC-HMS. Emphasis on watershed analysis for decision making and drainage design.
Grade Mode: Normal Grading Mode

ENVE 673 Industrial Ventilation **3 Credit hours**
The design and analysis of industrial ventilation systems, including properties of air contaminants; hood, duct, and fan design; system performance; mine ventilation; air cleaning devices; testing; diagnosis; troubleshooting, cost analysis. (PR: Consent)
Grade Mode: Normal Grading Mode

ENVE 681 Environmental Engr Design **3 Credit hours**
Principles of engineering design of water and wastewater treatment systems and processes, including physical, chemical and biological treatment and handling of treatment residuals. Includes coverage of relevant water quality concepts.
Grade Mode: Normal Grading Mode

ENVE 682 Environmental Remediation Tech **3 Credit hours**
Decontamination or removal of pollutants from soil. Aeration of excavated soil on site. Use of solvants and surfactants as removal aids. Removal of soil for treatment at an off-site facility. (PR: ES 651)
Grade Mode: Normal Grading Mode

Environmental Science

ES 514 Risk Assessment and Toxicology **3 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

ES 550 Environmental Law & Policy **3 Credit hours**
Introduction to major federal environmental legislation and related state programs, judicial review, and practical effects, and to processes for formulation and development of environmental policy.
Grade Mode: Normal Grading Mode

ES 554 Watershed Protection **3 Credit hours**
This course reviews key components of watershed structure and functions before investigating and applying concepts for managing and restoring aquatic ecosystems.
Grade Mode: Normal Grading Mode

ES 575 Intro to Environmental Science **3 Credit hours**
The principles of chemistry, geology and mathematics used in pollution control. Topographic maps, environmental regulations, field testing and compliance. Econonmics of use of pollution control devices.
Grade Mode: Normal Grading Mode

ES 582 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ES 583 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ES 585 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ES 586 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ES 587 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ES 588 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ES 602 Study of WV Environment **3 Credit hours**
An overview of the diversity of the local natural environment, including the plants, insects, amphibians, reptiles, other wildlife, and the impact of human activities on the local environment.
Grade Mode: Normal Grading Mode

ES 603 Seminar In Current Envr Issues **3 Credit hours**
The influence of environmental laws, common law, contract law, tort law, and regulatory interpretations, as well as the impact of citizens' groups, professional societies, and trade associations on current practice. (PR: Consent)
Grade Mode: Normal Grading Mode

ES 604 Air Pollution **3 Credit hours**
Major air pollution sourcs; meteorological concepts; physical and chemical characterization; effects on plant and animal life; and development of air pollution laws, with emphasis on West Virginia regulations. (PR: Consent)
Grade Mode: Normal Grading Mode

ES 605 Analy Prin Environ Sampling **3 Credit hours**
Identifying and measuring contaminants in air, water, soil, and sludge. Methods of analysis including gas chromatography nuclear magnetic resonance, colorimetry, infrared absorption untraviolet absorption, atomic absorption, and mass spectroscopy. (PR: Chemistry and ES 600, or equivalent experience)
Grade Mode: Normal Grading Mode

ES 609 Topics in Bioscience Education **1-6 Credit hours**
Selected topics of interest to teachers of biology. (PR: Consent)
Grade Mode: Normal Grading Mode

ES 610 Envr Sampling Practice **3 Credit hours**
Current practice in environmental testing and monitoring. Traditional wastewater tests, bioassay analysis, aquatic toxicity. Current procedures in gas chromatographic analysis, mass spectrometry. Sample preservation, quality control, and quiality assurance. (PR: analytical chemistry and instrumental methods, or ES 605)
Grade Mode: Normal Grading Mode

ES 620 Environmental Management Sys **3 Credit hours**
EMS principles and elements; environmental, health and safety regulatory issues; ISO 14000 EMS specifications and guidelines; environmental auditing; environmental performance evaluation; life cycle assessment and environmental labeling.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

ES 626 Remote Sensing & Map Use **3 Credit hours**
Introduction to topographic, soil, and geologic maps and aerial and satellite photography as sources of environmental information. Application of various data sources to specific types of environmental problems.
Grade Mode: Normal Grading Mode

ES 630 Environmental Site Assessment **3 Credit hours**
Site inspection and investigation, emphasizing the "due diligence" clause of Saction 107 of the Comprehensive Environmental Response Compensation Liability Act of 1980, site remediation, and data analysis and reporting.
Grade Mode: Normal Grading Mode

ES 640 Groundwater Princ & Monitoring **3 Credit hours**
Introduction to groundwater hydrogeology; including porosity hydraulic conductivity, aquifers, groundwater flow, well hydraulics, groundwater geology, and water chemistry. (PR: A background in environmental science or geology is recommended)
Grade Mode: Normal Grading Mode

ES 645 Applied Hydrogeology **3 Credit hours**
The fundamentals of hydrogeology are utilized to implement a case study investigation of a contaminated groundwater site from the planning stage through a final report. (PR: ES 640 or equivalent experience)
Grade Mode: Normal Grading Mode

ES 646 Dynamics of Ecosystems **3 Credit hours**
Species interaction; population, community and ecosystem ecology; productivity; nutrient cycling; physiological ecology, population dynamics; pollution and conservation; and aquatic, marine, and terrestrial ecosystems. (PR: Consent)
Grade Mode: Normal Grading Mode

ES 648 Vegetation of West Virginia **3 Credit hours**
Grade Mode: Normal Grading Mode

ES 651 Environmental Microbiology **3 Credit hours**
Grade Mode: Normal Grading Mode

ES 652 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ES 655 Environmental Ethics **3 Credit hours**
Introduction to the subject of ethics, environmental ethical theory, moral reasoning, free market regulation, right to know, proprietary information, product liability cost-benefit analysis, risk assessment, waste disposal, and resource depletion. (PR: Consent)
Grade Mode: Normal Grading Mode

ES 656 Prep Eval Environ Impact State **3 Credit hours**
A practical course designed to provide students with the ability to prepare and evaluate impact statements. The course is based on the concepts of the environment as a single interrelated system.
Grade Mode: Normal Grading Mode

ES 660 Environmental Law I **3 Credit hours**
Introduction to major federal environmental legislation and related state programs, including policy issues, judicial review, and practical effects. Includes CERCLA, RCRA, Clean Water Act, NEPA, ESA and SDWA.
Grade Mode: Normal Grading Mode

ES 661 Environmental Regulations **3 Credit hours**
Practical applications and concentrated study of regulations under all major federal environmental programs, including permitting, reporting, and other compliance issues. Includes discussion of procedures used in development of regulations.
Grade Mode: Normal Grading Mode

ES 663 Environmental Law II **3 Credit hours**
Course covers three general topic areas: environmental assessment and biodiversity assessment (NEPA and ESA), risk management and the regulation of toxic substances (TSCA, FIFRA, and SDWA), and international environmental law.
Pre-req: ES 660.
Grade Mode: Normal Grading Mode

ES 665 Water Resources Management **3 Credit hours**
Course surveys the processes that govern the earth's hydrologic cycle and the human activities which effect that cycle. It seeks to provide an integrated science/managment/policy approach to water resource issues.
Grade Mode: Normal Grading Mode

ES 670 Sustainable Energy **3 Credit hours**
The course focuses on the technological and cost fundamentals of what is generally considered sustainable energy technologies, including solar, wind, biomass and other energy sources.
Grade Mode: Normal Grading Mode

ES 674 Epidemiological Hlth Res Tech **3 Credit hours**
An introduction to techniques of epidemiological health research. The primary focus will be health problems in the industrial setting.
Grade Mode: Normal Grading Mode

ES 675 Brownfields Management **3 Credit hours**
Environmental management and development of abandoned, idoled or underused industrial or commercial facilities where expansion or redevelopment is complicated by real or perceived environmental contamination.
Grade Mode: Normal Grading Mode

ES 680 Thesis **1-6 Credit hours**
Students completing ES 680 must defend their thesis in an oral examination.
Attributes: No Textbook Required, Onsite Learning Experience, Thesis
Grade Mode: Credit/No Credit Grade Only

Mechanical Engineering

ME 502 Principles and Practices-ME **2 Credit hours**
Grade Mode: Normal Grading Mode

ME 515 Vehicle Dynamics **3 Credit hours**
Deals with ground vehicle stability and control. Contribution of tire lateral force, stiffness, and aligning torque to stability. Effects of suspension geometry, chassis stiffness, and roll stiffness.
Grade Mode: Normal Grading Mode

ME 520 Intro Comp Fluid Dynamic **3 Credit hours**
This course covers governing equations, ordinary differential equations (ODEs), numerical integration; finite difference and finite volume methods for parabolic, ellipitic, hyperbolic partial differential equations (PDEs), numerical linear algebra; turbulence modeling.
Grade Mode: Normal Grading Mode

ME 530 Renewable Energy **3 Credit hours**
Basic principles and technical details of various renewable energy technologies for the sustainable future. Process design, energy analysis, engineering economics and environmental assessment of renewable energy systems.
Grade Mode: Normal Grading Mode

ME 545 Nano-Materials **3 Credit hours**
Covers fundamentals of nanomaterial and nanotechnology. Unique properties of nanomaterials. Synthesis methods of various nanomaterials. Nano and microfabrication techniques. Applications of nanomaterials in various technologies, environmental science, biotechnology and biomedicine.
Grade Mode: Normal Grading Mode

ME 560 Automation and Control **3 Credit hours**
This course provides an overview of the principles of automation and concept of system control, including instrumentation, control, human interface, and communication subsystems.
Grade Mode: Normal Grading Mode

ME 601 Advanced Engr Analysis I **3 Credit hours**
The core of this course is to learn advance analytical and computational methods to solve multi-dimensional conduction, convection-advection, mechanical vibration, and elasticity equations.
Grade Mode: Normal Grading Mode

ME 602 Advanced Engr Analysis II **3 Credit hours**
This is the second course in a two-course sequence to learn advanced analytical and computational methods to solve multi-dimensional diffusion, heat, biharmonic, and elasticity equations.
Grade Mode: Normal Grading Mode

ME 604 Research Methods **3 Credit hours**
Research methods in engineering conducting critical reviews of research literature, preparing pre-proposal, and initiating background research on a thesis topic. Student is expected to submit a thesis pre-proposal.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

ME 617 Additive Manufacturing **3 Credit hours**
Additive manufacturing (AM), rapid prototyping, rapid tooling, joining processes, direct digital manufacturing to form 3D parts with applications ranging from prototyping to production in aerospace, defense, and biomedical industries.
Grade Mode: Normal Grading Mode

ME 619 Fuel Cell Technology **3 Credit hours**
Fundamentals and applications of fuel cell and hydrogen technology. It includes thermodynamics, electrochemical kinetics, fuel cell electrode catalysts, fuel cell systems, fuel reforming, hydrogen production, storage, safety.
Grade Mode: Normal Grading Mode

ME 621 Corrosion Engineering **3 Credit hours**
Covers the causes and mechanisms of aqueous corrosion, electrochemistry and thermodynamicsof corrosion. Materials selection, design for minimization of corrosion, and corrosion protection. Case studies are discussed.
Grade Mode: Normal Grading Mode

ME 622 Design of Wind Farms **3 Credit hours**
Design and operation of wind farms. Topics include wind energy principles, wind site assessment, components, power generation machinery, control systems, connection to the electric grid and transmission, and energy storage.
Grade Mode: Normal Grading Mode

ME 625 Tribology **3 Credit hours**
Detailed coverage of the mechanisms of friction, material wear, and major lubrication techniques - liquids, solids, and gases - with traditional and modern applications. Coverage of micro/nanotribology, MEMS, and magnetic surface storage applications.
Grade Mode: Normal Grading Mode

ME 628 Applied Biomaterials **3 Credit hours**
Covers the knowledge needed to select and design biomaterials used in medical devices with emphasis on metallic, ceramic, polymeric, and composite biomaterials. Explains the difference between materials science and materials engineering.
Grade Mode: Normal Grading Mode

ME 630 Manufacturing Systems **3 Credit hours**
This course covers tool design and metal cutting theory, CAD/CAM, CIM, CNC m/c, CNC programming, fixture design, metal forming, gear manufacturing, non-tradtional machining, PLC, flexible manufacturing, robotics, rapid prototyping/tooling.
Grade Mode: Normal Grading Mode

ME 635 Advanced Vibrations **3 Credit hours**
Modeling of vibratory motion of advanced mechanical and structural systems, including continuous systems, nonlinear systems and systems with random excitations.
Grade Mode: Normal Grading Mode

ME 640 System Modeling **3 Credit hours**
Overview of system modeling and simulation of complex systems with mechanical, hydraulic, thermal and/or electrical elements. Frequency response analysis, stability, and numerical analysis of system modeling.
Grade Mode: Normal Grading Mode

ME 645 Nonlinear Dynamics **3 Credit hours**
Nonlinear dynamical systems, including concepts of chaos, fractal and classic dynamics equations, one dimension systems, two dimension systems, phase plane, limit cycle, bifurcation, Lorenz equation, and fractals.
Grade Mode: Normal Grading Mode

ME 649 Sustainable Energy Management **3 Credit hours**
Sustainable energy management, provides an overview of mechanical and control systems within buildings with sub-systems which possess a visible energy signature in terms of energy usage, inefficiency, and impact.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

ME 650 Special Topics **1-4 Credit hours**
Subject matter to be selected from topics of current interest.
Grade Mode: Normal Grading Mode

ME 651 Special Topics **1-4 Credit hours**
Subject matter to be selected from topics of current interest.
Grade Mode: Normal Grading Mode

ME 652 Special Topics **1-4 Credit hours**
Subject matter to be selected from topics of current interest.
Grade Mode: Normal Grading Mode

ME 653 Special Topics **1-4 Credit hours**
Subject matter to be selected from topics of current interest.
Grade Mode: Normal Grading Mode

ME 699 Thesis **1-6 Credit hours**
This course covers the communication problems encountered in researching and writing a thesis: the scientific writing of a research paper, the speaking and presenting skills, and the organization skills.
Attributes: Thesis
Grade Mode: Normal Grading Mode

Safety Technology

SFT 536 Safety Ed for Elem Teachers **1 Credit hour**
Grade Mode: Normal Grading Mode

SFT 540 Indust Fire Protection **3 Credit hours**
An introductory course that explores the relationship between engineering and fire prevention. Topics include: water supplies, sprinkler systems, behavior of fire and materials, fire protection, fire extinguishers, and other systems.
Grade Mode: Normal Grading Mode

SFT 553 International Safety & Health **3 Credit hours**
The course covers the impact of globalization on worldwide safety and health programs, and a wide variety of safety and health programs for various countries and multi-national organizations.
Grade Mode: Normal Grading Mode

SFT 554 Indust Hygiene I **3 Credit hours**
Environmental protection as related to industrial settings. Air/water quality, noise and chemical pollution and hazardous material control.
Grade Mode: Normal Grading Mode

SFT 555 Environmental Prog/Sampling **3 Credit hours**
Grade Mode: Normal Grading Mode

SFT 558 Hospital Safety **3 Credit hours**
The course covers the various aspects of safety and health in professional health care services.
Grade Mode: Normal Grading Mode

SFT 561 Workers Compensation **3 Credit hours**
Introductory principles of workers' compensation and how it relates to the safety professional.
Grade Mode: Normal Grading Mode

SFT 565 Incident Investigation Tech **3 Credit hours**
An introductory course in accident investigation designed to give insight into the recognition and collection of evidence, collection and recording data and reconstructing the accident based on the facts.
Grade Mode: Normal Grading Mode

SFT 575 System Safety Engineering **3 Credit hours**
Grade Mode: Normal Grading Mode

SFT 580 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

SFT 581 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

SFT 582 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

SFT 583 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

SFT 585 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

SFT 586 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

SFT 587 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

SFT 589 Process Safety Mgmt **3 Credit hours**
A study of the latest industrial safety information which will assist the student in designing a program to reduce or eliminate all incidents which downgrade the system.
Grade Mode: Normal Grading Mode

SFT 591 Workshop **1-4 Credit hours**
Grade Mode: Normal Grading Mode

SFT 592 Workshop **1-4 Credit hours**
Grade Mode: Normal Grading Mode

SFT 593 Workshop **1-4 Credit hours**
Grade Mode: Normal Grading Mode

SFT 594 Workshop **1-4 Credit hours**
Grade Mode: Normal Grading Mode

SFT 597 Occup Sft & Health Prog Dev **3 Credit hours**
Safety functions in industry. Principles of organization and application of safety programs. Prevention, correction, and control methods are outlined and evaluated.
Grade Mode: Normal Grading Mode

SFT 599 Dev & Mgt of Occup Safety Prog **3 Credit hours**
A study of safety programs at the state and local levels including the administrative, instructional, and protective aspects of a comprehensive safety program in schools, occupations, home and public.
Grade Mode: Normal Grading Mode

SFT 601 Safety in Transportation **3 Credit hours**
Concerned with safe, efficient movement of people and goods. Involves highway, air, water, pipeline, and rails.
Grade Mode: Normal Grading Mode

SFT 606 Field Esp Safety Specialist **3 Credit hours**
Grade Mode: Normal Grading Mode

SFT 610 Intro to Prof Safety & Health **3 Credit hours**
An analysis of the educational philosophies and the application of these philosophies to occupational safety. A study of the effect of occupational safety on modern living.
Grade Mode: Normal Grading Mode

SFT 630 Current Lit & Res in Safety **3 Credit hours**
An analysis and study of selected works of national and international authors concerning significant works in Occupational Safety.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

SFT 645 Saf Engineering Equip Design **3 Credit hours**
The design and engineering of facilities and equipment to meet the physical needs of the human as well as enhancing production.
Grade Mode: Normal Grading Mode

SFT 647 Industrial Hygiene II **3 Credit hours**
Concerned with environmental health and safety hazards that arise out of or occur during work of employees.
Grade Mode: Normal Grading Mode

SFT 647L Quan Indus Hygiene Lab **3 Credit hours**
A laboratory course designed to complement Industrial Hygiene.
Grade Mode: Normal Grading Mode

SFT 648 Industrial Ventilation **3 Credit hours**
This course will cover the techniques of development, design maintenance, and troubleshooting of industrial ventilation systems. Also the types of ventilation systems used for different types of toxic materials.
Pre-req: SFT 647 or SED 647.
Grade Mode: Normal Grading Mode

SFT 649 Biophysical Hazards & Monitor **3 Credit hours**
Grade Mode: Normal Grading Mode

SFT 650 Internship Safety Specialist **3-12 Credit hours**
Attributes: No Textbook Required, Onsite Learning Experience
Grade Mode: Credit/No Credit Grade Only

SFT 651 Toxicology & Epidemiology **3 Credit hours**
Grade Mode: Normal Grading Mode

SFT 652 Industrial Noise & Vibration **3 Credit hours**
Pre-req: (SFT 554 or SED 554) or (SFT 647 or SED 647).
Grade Mode: Normal Grading Mode

SFT 660 Appl Ergon and Hum Factors Eng **3 Credit hours**
A study of how humans interact with the work environment, focusing on human capabilities and limitations, repetitive motion disorders, the human/machine interface and workspace design.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

SFT 661 Adv Occup Ergonomics **3 Credit hours**
Pre-req: SFT 660 or SED 660.
Grade Mode: Normal Grading Mode

SFT 662 Methods in Work Analysis **3 Credit hours**
Grade Mode: Normal Grading Mode

SFT 663 Work Environment Issues **3 Credit hours**
An examination of the aspects of the work environment that can affect health: time pressure, machine pacing, control etc. The recognition, measurement and control of these factors will be discussed.
Grade Mode: Normal Grading Mode

SFT 669 Traffic Safety Management **3 Credit hours**
Grade Mode: Normal Grading Mode

SFT 679 Problem Report **1-3 Credit hours**
Grade Mode: Normal Grading Mode

SFT 681 Thesis **1-6 Credit hours**
Attributes: No Textbook Required, Thesis
Grade Mode: Normal Grading Mode

SFT 690 Seminar **1-4 Credit hours**
Grade Mode: Normal Grading Mode

SFT 691 Seminar **1-4 Credit hours**
Grade Mode: Normal Grading Mode

SFT 692 Seminar **1-4 Credit hours**
Grade Mode: Normal Grading Mode

Technology and Engineering

TE 600 Orientation CITE Grad Studies **0 Credit hours**
Orientation course covering skills such as technical communication, quantitative reasoning, research methods, ethics and professionalism, team work, and discipline-specific information.
Grade Mode: Credit/No Credit Grade Only

TE 650 Special Topics **4 Credit hours**
Occasional offerings of current topics in technology and engineering, providing important supplementary material for participating students.
Grade Mode: Credit/No Credit Grade Only

TE 651 Special Topics **1-4 Credit hours**
Occasional offerings of current topics in technology and engineering, providing important supplementary material for participating students.
Grade Mode: Normal Grading Mode

TE 652 Special Topics **1-4 Credit hours**
Occasional offerings of current topics in technology and engineering, providing important supplementary material for participating students.
Grade Mode: Normal Grading Mode

TE 653 Special Topics **1-4 Credit hours**
Occasional offerings of current topics in technology and engineering, providing important supplementary material for participating students.
Grade Mode: Normal Grading Mode

TE 685 Independent Study **1-4 Credit hours**
An approved study of special interest, that is appropriate for the student's program of study, concerning technology and engineering. Carried out under the supervision of a faculty member.
Grade Mode: Normal Grading Mode

TE 686 Independent Study **1-4 Credit hours**
An approved study of special interest, that is appropriate for the student's program of study, concerning technology and engineering. Carried out under the supervision of a faculty member.
Grade Mode: Normal Grading Mode

TE 687 Independent Study **1-4 Credit hours**
An approved study of special interest, that is appropriate for the student's program of study, concerning technology and engineering. Carried out under the supervision of a faculty member.
Grade Mode: Normal Grading Mode

TE 688 Independent Study **1-4 Credit hours**
An approved study of special interest, that is appropriate for the student's program of study, concerning technology and engineering. Carried out under the supervision of a faculty member.
Grade Mode: Normal Grading Mode

TE 698 Comp Project Formulation **3 Credit hours**
Comprehensive project proposal is developed, approved, and work begun, under supervision. Technical report writing, oral presentations, and communication skills. (PR: EM 660) S/U Grading.
Pre-req: EM 660.
Grade Mode: Credit/No Credit Grade Only

TE 699 Comprehensive Project **3 Credit hours**
Completion of comprehensive project under the supervision of a faculty member. Includes final written submittal and public oral presentation. (PR: TE 698) S/U Grading.
Attributes: No Textbook Required
Grade Mode: Credit/No Credit Grade Only

Civil and Environmental Engineering, Accelerated Graduate Degree

Contact: Dr. Isaac W. Wait, P.E., Chair

isaac.wait@marshall.edu

OVERVIEW

Undergraduates accepted to an Accelerated Graduate Degree (AGD) program can begin taking graduate level classes while still in their undergraduate program. These graduate credits can be used for both the undergraduate and graduate level coursework and will help facilitate an easy and fast transition into a graduate program if a student is accepted. To be accepted into the AGD, please see your advisor to see if you qualify for one of these positions.

Undergraduates accepted into an AGD program can begin taking graduate coursework during their junior or senior year. Programs offering an AGD option may allow up to 12 hours of graduate level coursework to also count towards an undergraduate degree.

Graduate coursework/credit will appear only on the graduate transcript, and graduate course grades will be calculated towards the graduate GPA.

Undergraduates accepted to an Accelerated Graduate Degree program can begin taking master's level classes while still in the undergraduate program. Up to 12 graduate credits can be used to fulfill requirements for both the undergraduate and the master's degrees, effectively reducing the cost of, and time to, degree. Graduates of this program will be prepared for direct entry into the job market or continuation of graduate study towards a Ph.D. or other professional program.

The existing degree requirement for the undergraduate **Bachelor of Science in Civil Engineering (B.S.C.E.)** is 124 credit hours, which includes ENGR 451 Intro to Proj Management , two Civil Engineering electives (6 credit hours) and one technical elective (3 credit hours). AGD students would be permitted to take the graduate level EM 660 Project Management in place of ENGR 451 Intro to Proj Management, and three graduate level elective courses in place of the Civil Engineering electives and technical elective.

ADMISSION REQUIREMENTS

Eligibility Requirements for AGD Program

- Must have completed at least 60 hours toward the Bachelor's degree;
- Must have at least a 3.30 overall undergraduate GPA;
- Must have at least a 3.30 GPA in the major;
- Must meet the admission requirements of the chosen graduate degree program, apart from the receipt of a bachelor's degree. Students must earn a bachelor's degree to be fully admitted into the graduate degree program.

AGD programs may have admission requirements that differ from the admission requirements for the regular graduate degree. For example, some departments might waive the required admission test, such as the GRE or GMAT. Students should check with the chosen graduate degree program.

How to Apply

1. During the junior or senior year, eligible students should meet with their Undergraduate Advisor and the Director of Graduate Studies of their chosen graduate degree program to develop an AGD plan of study. Any changes to the AGD plan of study must be approved by the undergraduate advisor and director of graduate studies in writing to the dean of the college housing the graduate program.
2. The student's acceptance into the AGD program is subject to the approval of the plan of study by the dean of the college housing the graduate program.
3. Students accepted into the AGD program should apply for admission to the chosen graduate degree program for the first semester after the bachelor's degree is awarded. Admission applications should be submitted during the last semester of the senior year.

Students must maintain a minimum GPA of 3.0 for all graduate credit toward their graduate degree program.

Withdrawal from the AGD

A student may withdraw at any time from the AGD by informing in writing the undergraduate advisor, the director of graduate studies and the dean of the college housing the graduate program. The student's status will then revert to the standard undergraduate degree program. Any graduate hours earned must be approved for use in fulfillment of bachelor's degree requirements by the student's undergraduate dean.

From Undergraduate to Graduate Student

Beginning with the semester after the student has earned the bachelor's degree and has been accepted into a graduate degree program, the student is enrolled in the graduate program and is assessed tuition and fees at the graduate rate. All rules regarding graduate education will apply to the student once admitted into the graduate degree program.

Civil and Environmental Engineering, M.S.E.

Program Description

The M.S. in Engineering (M.S.E.) program is an interdisciplinary engineering program designed to meet the specific needs of engineers employed in industry, government, and consulting, as well as those desiring a traditional research-based graduate degree. The program offers a broad core curriculum with opportunities for concentrated study in two majors: Engineering Management and Civil and Environmental Engineering.

Accelerated Master's Degree In Civil And Environmental Engineering

An Accelerated Master's Degree is available for qualified undergraduate civil engineering majors. See the Accelerated Graduate Degree section (p.) in this catalog for details.

Admission Requirements

Applicants should follow the admissions process described in this catalog or at the Graduate Admissions website: http://www.marshall.edu/graduate/admissions/how-to-apply-for-admission

(http://www.marshall.edu/graduate/admissions/how-to-apply-for-admission/). For full admission each applicant must have an undergraduate engineering degree from an ABET accredited program, or for international programs from a university that is accredited in the country where it is located.

1. If applicants have an undergraduate GPA of 2.75 or higher on a 4.0 scale then they will be admitted.
2. If applicants have an undergraduate GPA below 2.75 on a 4.0 scale then their applications will be evaluated on a case-by-case basis. Applicants should send to the Marshall University Graduate Admissions office at least one of the following: GRE scores, evidence of having passed the NCEES FE exam, NCEES PE exam, or PMP exam.

Applicants who do not have an undergraduate civil engineering, construction engineering, or environmental engineering degree will be evaluated on a case-by-case basis for provisional admission to the program, and must have completed the Foundation Courses listed below before being fully admitted.

Foundation Courses

Code	Title	Credit Hours
ENGR 318	Fluid Mechanics	3
CE 312	Structural Analysis	3
CE 342	Transportation Engineering	3
CE 413	Reinforced Concrete	3
or CE 414	Structural Steel Design	
CE 331	Hydraulic Engineering	3
CE 351	Environmental Engineering	3

Program Requirements

Each degree candidate is required to complete at least 30 graduate credit hours, depending on the option chosen below (project, thesis, or coursework only), with a cumulative Grade Point Average of 3.0 for the courses included in the student's Plan of Study. At least one-half of the minimum required hours for the degree must be earned in classes numbered 600 or above.

Each degree-seeking student must file an approved Plan of Study, developed with a faculty advisor, before the student registers for the 12th credit hour. The Academic Regulations portion of the Graduate Catalog may be consulted for additional information.

A student may only earn the M.S.E. degree once. Therefore, students wishing to complete two M.S.E. majors (*i.e.*, double major) must complete all requirements for both majors before the degree is awarded. A maximum of 12 credit hours may be counted toward both majors, as approved by the student's academic advisor in each major. An option must be selected for each major and the two options are permitted to be different. However, each major must have its own comprehensive assessment (*i.e.*, comprehensive project, thesis, or comprehensive examination). For example, a single thesis and defense cannot satisfy the requirements for both majors.

Students may choose to complete either the project option, the thesis option, or the coursework-only option after consultation with their academic advisors.

Project Option. The comprehensive project involves the application of coursework completed as part of the degree to a practical problem. Students will work with their advisors to identify an appropriate project and scope. Students must prepare a formal written report and deliver an oral presentation to a committee. Students register for a 3 hours of ENGR 682 Research during the semester in which their project will be completed and presented, but preliminary work on the project may commence before that semester.

Thesis Option. The thesis option involves the completion of 6 hours of ENGR 682 Research under the direction of an advisor on an approved project. Students must summarize their work in the form of a formal, written document and successfully defend the thesis before a committee. Thesis work is typically conducted over two semesters.

Coursework-Only Option. Students complete 30 hours of coursework and then complete a comprehensive examination within the last two semesters of graduation to fulfill the requirements of their degree program. Examinations will be administered no more than once per semester for any student. If the student does not pass the exam within three attempts, the student will be dismissed from the program.

Plans of Study

Coursework-Only Option

Code	Title	Credit Hours
Required Courses		
Select one of the following:		3
ENGR 610	Applied Statistics	
ENGR 620	Computer Applications	
ME 601	Advanced Engr Analysis I	
STA 634	Stat Mtds for Researchers	
STA 545	Probability and Statistics I	
EM 660	Project Management	3
Elective Courses (see below)		**24**
Total Credit Hours		**30**

Project Option

Code	Title	Credit Hours
Required Courses		
Select one of the following:		3
ENGR 610	Applied Statistics	
ENGR 620	Computer Applications	
ME 601	Advanced Engr Analysis I	
STA 634	Stat Mtds for Researchers	
STA 545	Probability and Statistics I	
EM 660	Project Management	3
ENGR 682	Research	3
Elective Courses (see below)		**21**
Total Credit Hours		**30**

Thesis Option

Code	Title	Credit Hours
Required Courses		
Select one of the following:		3
ENGR 610	Applied Statistics	
ENGR 620	Computer Applications	
ME 601	Advanced Engr Analysis I	
STA 634	Stat Mtds for Researchers	
STA 545	Probability and Statistics I	
EM 660	Project Management	3
ENGR 682	Research	6
Elective Courses (see below)		**18**
Total Credit Hours		**30**

Elective Courses for the Civil Environmental Engineering Major

- Any CE (Civil Engineering) graduate course approved in advance by the student's advisor
- Any ENVE (Environmental Engineering) graduate course approved in advance by the student's advisor.
- Any EM (Engineering Management) graduate course approved in advance by the student's advisor.
- Any ES (Environmental Science) graduate course approved in advance by the student's advisor.
- Any ENGR (Engineering) graduate course approved in advance by the student's advisor.
- Other graduate courses approved in advance by the student's advisor, up to 6 credit hours.

Computer Science, Accelerated Graduate Degree

Undergraduates accepted to an Accelerated Graduate Degree (AGD) program can begin taking graduate level classes while still in their undergraduate program. These graduate credits can be used for both the undergraduate and graduate level coursework and will help facilitate an easy and fast transition into a graduate program if a student is accepted. To be accepted into the AGD, please see your advisor to see if you qualify for one of these positions.

Undergraduates accepted into an AGD program can begin taking graduate coursework during their junior or senior year. Programs offering an AGD option may allow up to 12 hours of graduate level coursework to also count towards an undergraduate degree.

Graduate coursework/credit will appear only on the graduate transcript, and graduate course grades will be calculated towards the graduate GPA.

B.S. in Computer Science (BSCS) curriculum requires 120 credit hours for graduation and the M.S. in Computer Science (MSCS) degree requires 30 credit hours. Students enrolled in the AGD program can substitute up to a maximum of 12 credits of their BSCS courses to 12 graduate credits of MSCS program to receive both BSCS and MSCS degrees in 5 years by completing a total of 138 credits.

The BSCS curriculum requires 6 credits of computer science major electives and 8 credits of free electives (see BSCS Study Plan). During their senior year, AGD students will take four CS graduate courses (one in fall semester and three In spring semester) at the 500 or 600 level for graduate degree credit (see MSCS plan of study) in lieu of major or free electives.

Eligibility Requirements for AGD Program

- Must have completed at least 60 hours toward the Bachelor's degree;
- Must have at least a 3.30 overall undergraduate GPA;
- Must have at least a 3.30 GPA in the major;
- Must meet the admission requirements of the chosen graduate degree program, apart from the receipt of a bachelor's degree. Students must earn a bachelor's degree to be fully admitted into the graduate degree program.

AGD programs may have admission requirements that differ from the admission requirements for the regular graduate degree. For example, some departments might waive the required admission test, such as the GRE or GMAT. Students should check with the chosen graduate degree program.

How to Apply

1. During the junior or senior year, eligible students should meet with their Undergraduate Advisor and the Director of Graduate Studies of their chosen graduate degree program to develop an AGD plan of study. Any changes to the AGD plan of study must be approved by the undergraduate advisor and director of graduate studies in writing to the dean of the college housing the graduate program.
2. The student's acceptance into the AGD program is subject to the approval of the plan of study by the dean of the college housing the graduate program.
3. Students accepted into the AGD program should apply for admission to the chosen graduate degree program for the first semester after the bachelor's degree is awarded. Admission applications should be submitted during the last semester of the senior year.

Students must maintain a minimum GPA of 3.0 for all graduate credit toward their graduate degree program.

Withdrawal from the AGD

A student may withdraw at any time from the AGD by informing in writing the undergraduate advisor, the director of graduate studies and the dean of the college housing the graduate program. The student's status will then revert to the standard undergraduate degree program. Any graduate hours earned must be approved for use in fulfillment of bachelor's degree requirements by the student's undergraduate dean.

From Undergraduate to Graduate Student

Beginning with the semester after the student has earned the bachelor's degree and has been accepted into a graduate degree program, the student is enrolled in the graduate program and is assessed tuition and fees at the graduate rate. All rules regarding graduate education will apply to the student once admitted into the graduate degree program.

Semester Plan

Fourth Year		
Fall		**Credit Hours**
CS 360	Automata and Formal Languages	3
CS 510	Advanced Database Systems	3
Science w/Lab 3		4
Writing Intensive		3
	Credit Hours	**13**
Spring		
CS 490	Senior Project	3
CS 515	Data Mining	3
Graduate Elective		3
Graduate Elective		3
Free Elective		2
	Credit Hours	**14**
Fifth Year		
Fall		
CS 511	Advanced Programming	3
CS 620	Applied Algorithms	3
Graduate Elective		3
	Credit Hours	**9**
Spring		
CS 600	Advanced Web Technology	3
Graduate Elective		3
Graduate Elective		3
	Credit Hours	**9**
	Total Credit Hours	**45**

Computer Science, M.S.

Program Description

The Master of Science in Computer Science (MSCS) degree is designed to provide students with the knowledge, skill, and professional practices needed to develop complex software systems. The program also prepares students who desire to pursue further graduate work leading to a Ph.D. degree.

Admission Requirements

Applicants should follow the admissions process as stated in the *Graduate Catalog* or the graduate admissions website. For full admission, a four-year Bachelor's degree with GPA of 2. 75 or higher out of 4.0 in Computer Science, or related areas listed below is required.

- Computer Science
- Computer Engineering
- Information Technology
- Electrical Engineering
- Software Engineering

Applicants with a four-year bachelor's degree in a major not listed above may be admitted to the program with a condition of successful completion of the following three bridge courses with a grade of *B* or above in the first two semesters of the program:

- Data Structures and Algorithms (CS 210 Data Structures and Algorithms)
- Data Engineering (CS 410 Database Engineering)
- Applied Probability and Statistics (STA 345 Applied Prob and Stat)

Whether a student meets the above requirements will be determined by the division chair or designee based on the information provided in the admission application and transcripts. Foreign nationals must provide proof of English proficiency with a minimum score of 6.5 in IELTS or 80 on TOEFL IBT (or 550 paper based) and must have met all other admission criteria prior to registering for the first semester of courses.

Program Requirements

Degree Requirements

The MSCS degree requires 30 credit hours (CR) of graduate work. At least 18 CR must come from 600-level courses. The 30 CR is composed of the following components:

Thesis Option

As an elective course, the thesis option offers a student an opportunity for serious investigation into an area of interest. Students must summarize their thesis work in the form of a formal written document and deliver an oral presentation. Thesis work is typically conducted over two semesters (6 CR). Thesis can be taken only after the completion of 18 credits at the minimum. Please refer to Thesis Guideline in CS provided by your advisor for details.

Code	Title	Credit Hours
Required CS Courses		
CS 510	Advanced Database Systems	3
CS 511	Advanced Programming	3
CS 515	Data Mining	3
CS 600	Advanced Web Technology	3
CS 620	Applied Algorithms	3
Elective Courses		
Select any 600-level courses in master's programs in the Division of Computer Science or 500-level course with special permission by chair of the program.		15
Total Credit Hours		**30**

Plan of Study

Students are required to complete a Plan of Study form in consultation with their academic advisors before the students can begin their program of study. This is usually done the week before the first day of classes of first semester.

First Year		
First Semester		**Credit Hours**
CS 510	Advanced Database Systems	3
CS 511	Advanced Programming	3
CS Elective 1		3
	Credit Hours	**9**

Second Semester		
CS 515	Data Mining	3
CS 600	Advanced Web Technology	3
CS Elective 2		3
	Credit Hours	**9**
Third Semester		
CS 620	Applied Algorithms	3
Select one of the following:		3
CS Elective 3		
CS 681	Thesis	
CS Elective 4		3
	Credit Hours	**9**
Fourth Semester		
Select one of the following:		3
CS Elective 5		
CS 681		
	Credit Hours	**3**
	Total Credit Hours	**30**

Cybersecurity, Accelerated Graduate Degree

Contact: Dr. Haroon Malik, Chair
malikh@marshall.edu

Undergraduates accepted to an Accelerated Graduate Degree (AGD) program can begin taking graduate level classes while still in their undergraduate program. These graduate credits can be used for both the undergraduate and graduate level coursework and will help facilitate an easy and fast transition into a graduate program if a student is accepted. To be accepted into the AGD, please see your advisor to see if you qualify for one of these positions.

Undergraduates accepted into an AGD program can begin taking graduate coursework during their junior or senior year. Programs offering an AGD option may allow up to 12 hours of graduate level coursework to also count towards an undergraduate degree.

Graduate coursework/credit will appear only on the graduate transcript, and graduate course grades will be calculated towards the graduate GPA.

The B.S. in Computer Science (BSCS) curriculum requires 120 credit hours for graduation and the M.S. in Cybersecurity (MSCY) degree requires 30 credit hours. Students enrolled in the AMD program can substitute up to a maximum of 12 credits of their BSCS courses to 12 graduate credits of MSCY program to receive both BSCS and MSCY degrees in 5 years by completing a total of 138 credits.

The BSCS curriculum requires 6 credits of computer science major electives and 8 credits of free electives (see BSCS Study Plan). During their senior year, AMD students will take four CS graduate courses (one in fall semester and three In spring semester) at the 500 or 600 level for graduate degree credit (see MSCY plan of study) in lieu of major or free electives.

Eligibility Requirements for Accelerated Master's Degree Program

- completed at least 80 hours toward the bachelor's degree;
- at least a 3.30 overall undergraduate GPA;
- at least a 3.30 GPA in the major.

Undergraduates accepted to an Accelerated Graduate Degree (AGD) program can begin taking graduate level classes while still in their undergraduate program. These graduate credits can be used for both the undergraduate and graduate level coursework and will help facilitate an easy and fast transition into a graduate program if a student is accepted. To be accepted into the AGD, please see your advisor to see if you qualify for one of these positions.

Undergraduates accepted into an AGD program can begin taking graduate coursework during their junior or senior year. Programs offering an AGD option may allow up to 12 hours of graduate level coursework to also count towards an undergraduate degree.

Graduate coursework/credit will appear only on the graduate transcript, and graduate course grades will be calculated towards the graduate GPA.

Semester Plan

Fourth Year		
Fall		**Credit Hours**
CS 360	Automata and Formal Languages	3
CYBR 510	Intro to Cybersecurity	3
Science w/Lab 3		4
Writing Intensive		3
	Credit Hours	**13**
Spring		
CS 490	Senior Project	3
CYBR 620	Cyberwarfare	3
Graduate Course (Free Elective)		3
Graduate Course (Concentration)		3
Free Elective		2
	Credit Hours	**14**
Fifth Year		
Fall		
CYBR 530	Cybersec Policies & Mgmt	3
CYBR 615	Cyber Vulnerability Assess	3
CYBR 680	Research in Cybersecurity (or Core Elective)	3
	Credit Hours	**9**
Spring		
Graduate Course (Concentration)		3
Graduate Course (Free Elective)		3
CYBR 681	Thesis (or Core Elective)	3
	Credit Hours	**9**
	Total Credit Hours	**45**

Cybersecurity, M.S.

Program Description

The Master of Science in Cybersecurity program provides students with the knowledge, skills, and professional practices needed for careers in the cybersecurity fields. The program also prepares students who desire to pursue further graduate work that leads to a Ph.D. degree. The curriculum covers several advanced topics in cybersecurity, such as; advanced cryptography, cybersecurity policy, cyber risk and vulnerability, cyber operation, wireless network security, web/mobile security, software security, security in Internet of Things (IoT), etc. These courses will be taught using the very latest, state-of-the-art security tools and technologies.

Admission Requirements and Transfer Criteria

Applicants should follow the admissions process stated in the graduate catalog or the graduate admissions web site. Minimum requirements for admission is a four-year bachelor's degree with a GPA of 2.75 or higher out of 4.0 in Cybersecurity or computer science related programs.

Whether a student meets the above requirements will be determined by the chair or designee of the Department of Computer Sciences and Electrical Engineering, based on the information provided in the admission application and transcripts. Applicants with a four-year bachelor's degree in a major other than a cybersecurity or computer science related program may be admitted to the program with a condition of successful completion of the following three bridge courses with a grade of *B* or above in the first two semesters of the program:

- Data Structures and Algorithms (CS 210 Data Structures and Algorithms)
- Internetworking (CS 320 Internetworking)
- Statistics (STA 225 Introductory Statistics (CT) or STA 345 Applied Prob and Stat)

Foreign nationals must provide proof of English proficiency with a minimum score of 6.5 in IELTS or 80 on the TOEFL IBT (or 550 paper-based) and must have met all other admission criteria prior to registering for the first semester of courses.

Program Requirements

The M.S. degree requires 30 credit hours (CR) of graduate work. At least 15 credit hours should be taken from 600 level courses.

Code	Title	Credit Hours
Required Core Courses		
CFS 630	Cyber Threat Intelligence	3
CFS 665	Cyber Sec IoT and ICS	3
CYBR 510	Intro to Cybersecurity	3
Focus Area		
Select four courses from one Focus Area:		12
Cyber Defense (p.)		
Cyber Forensics (p.)		
Cyber Management (p.)		
Electives		**9**
Select nine hours of the following:		
Any 500 or 600 level CFS Courses		
Any 500 or 600 level CYBR courses		
Any 500 or 600 level CS courses		
CYBR 681	Thesis (May only be counted if the thesis option is selected and CYBR 680 is also taken) [1]	
MIS 600	Management Information Systems	
MIS 647	IT Disaster Plan and Recovery	
EM 660	Project Management	
EM 675	Engineering Economics	
Other Graduate Courses as approved by advisor		
Total Credit Hours		**30**

[1] The Thesis option offers a student an opportunity for serious investigation into an area of interest by completing a 3 credit research course (CYBR 680 Research in Cybersecurity) and a 3 credit thesis (CYBR 681 Thesis) course. Students must summarize their thesis work in the form of a formal written document and deliver an oral presentation. Thesis work is typically conducted over two semesters. A thesis option can be taken after the completion of 12 credit hours. The 6 CR of the thesis option courses cannot be combined in a semester.

Cyber Defense

Code	Title	Credit Hours
Select from four of the following:		
CFS 520	Incident Response	3
CFS 650	Adv Cyber Defense	3
CYBR 500	Computer Security Design	3
CYBR 535	Cyber Risk	3
CYBR 542	Cyber Operations	3
CYBR 615	Cyber Vulnerability Assess	3
CYBR 620	Cyberwarfare	3
CYBR 680	Research in Cybersecurity (will only apply if Thesis option is selected)	3

Cyber Forensics

Code	Title	Credit Hours
CFS 500	Intro to Digital Forensics	3
CFS 520	Incident Response	3
CFS 567	Mobile Device Forensics	3
CFS 562	Network Forensics	3
CFS 640	Adv Cyber Forensics	3
CYBR 615	Cyber Vulnerability Assess	3
CYBR 620	Cyberwarfare	3
CYBR 680	Research in Cybersecurity (will only apply if Thesis option is selected)	3

Cyber Management

Code	Title	Credit Hours
CYBR 530	Cybersec Policies & Mgmt	3
CYBR 535	Cyber Risk	3
CYBR 542	Cyber Operations	3
EM 660	Project Management	3
EM 675	Engineering Economics	3
CYBR 680	Research in Cybersecurity (will only apply if Thesis option is selected)	3

Plan of Study

Plan of Study

Following is a typical two-year study plan for a full-time (9 credit hours a semester) student:

First Year		
First Semester		**Credit Hours**
CYBR 510	Intro to Cybersecurity	3
CFS 630	Cyber Threat Intelligence	3
Focus Area Course 1		3
	Credit Hours	**9**
Second Semester		
Focus Area Course 2		3
Focus Area Course 3		3
Elective Course 1		3
Elective Course 2		3
	Credit Hours	**12**
Second Year		
Third Semester		
CFS 665	Cyber Sec IoT and ICS	3
Elective Course 3		3
Focus Area Course 4		3
	Credit Hours	**9**
	Total Credit Hours	**30**

Note: Some elective courses may be offered just one semester a year. Students should work closely with an advisor in developing a study plan.

Data Science, Accelerated Graduate Degree

Contact: Dr. Haroon Malik, Chair
malikh@marshall.edu

Undergraduates accepted to an Accelerated Graduate Degree (AGD) program can begin taking graduate level classes while still in their undergraduate program. These graduate credits can be used for both the undergraduate and graduate level coursework and will help facilitate an easy and fast transition into a graduate program if a student is accepted. To be accepted into the AGD, please see your advisor to see if you qualify for one of these positions.

Undergraduates accepted into an AGD program can begin taking graduate coursework during their junior or senior year. Programs offering an AGD option may allow up to 12 hours of graduate level coursework to also count towards an undergraduate degree.

Graduate coursework/credit will appear only on the graduate transcript, and graduate course grades will be calculated towards the graduate GPA.

Admission Requirements

Eligibility Requirements for AGD Program

- Must have completed at least 60 hours toward the Bachelor's degree;
- Must have at least a 3.30 overall undergraduate GPA;
- Must have at least a 3.30 GPA in the major;
- Must meet the admission requirements of the chosen graduate degree program, apart from the receipt of a bachelor's degree. Students must earn a bachelor's degree to be fully admitted into the graduate degree program.

AGD programs may have admission requirements that differ from the admission requirements for the regular graduate degree. For example, some departments might waive the required admission test, such as the GRE or GMAT. Students should check with the chosen graduate degree program.

How to Apply

1. During the junior or senior year, eligible students should meet with their Undergraduate Advisor and the Director of Graduate Studies of their chosen graduate degree program to develop an AGD plan of study. Any changes to the AGD plan of study must be approved by the undergraduate advisor and director of graduate studies in writing to the dean of the college housing the graduate program.
2. The student's acceptance into the AGD program is subject to the approval of the plan of study by the dean of the college housing the graduate program.
3. Students accepted into the AGD program should apply for admission to the chosen graduate degree program for the first semester after the bachelor's degree is awarded. Admission applications should be submitted during the last semester of the senior year.

Students must maintain a minimum GPA of 3.0 for all graduate credit toward their graduate degree program.

Withdrawal from the AGD

A student may withdraw at any time from the AGD by informing in writing the undergraduate advisor, the director of graduate studies and the dean of the college housing the graduate program. The student's status will then revert to the standard undergraduate degree program. Any graduate hours earned must be approved for use in fulfillment of bachelor's degree requirements by the student's undergraduate dean.

From Undergraduate to Graduate Student

Beginning with the semester after the student has earned the bachelor's degree and has been accepted into a graduate degree program, the student is enrolled in the graduate program and is assessed tuition and fees at the graduate rate. All rules regarding

graduate education will apply to the student once admitted into the graduate degree program.

Fourth Year		
Fall		**Credit Hours**
CS 360	Automata and Formal Languages	3
CS 511	Advanced Programming	3
Science with Lab 3		4
Writing Intensive		3
	Credit Hours	**13**
Spring		
CS 490	Senior Project	3
STA 535	Statistical Data Mining	3
CS 630	Machine Learning	3
Graduate Course (Domain Elective)		3
Free Elective		2
	Credit Hours	**14**
Fifth Year		
Fall		
CS 670	Visual Analytics	3
STA 634	Stat Mtds for Researchers	3
CS 660	Big Data Systems	3
	Credit Hours	**9**
Spring		
Graduate Course (Domain Elective)		3
Graduate Course (Domain Elective)		3
Graduate Course (Domain Elective)		3
	Credit Hours	**9**
	Total Credit Hours	**45**

Data Science, M.S.

Program Description

The Master of Science in Data Science (M.S.D.S.) provides students with technical expertise in computational modeling, data collection and integration, data storage and retrieval, data processing, modeling and analytics, and visualization. Students graduating from this program will be able to handle large data sets (big data), write software to work with these large data sets, and apply the statistical skills to model and analyze sub-data sets of interest. The job opportunities in this field are rapidly growing.

Admission Requirements

Minimum admission requirement for full admission includes completion of a four-year bachelor's degree in Data Science, Computer Science, Statistics, Mathematics, or related program with GPA of 2.75 or higher on 4.0 scale. Applicants with a baccalaureate degree in a major other than computer science or related program may be admitted to the program and must successfully complete the following three additional bridge courses with a grade of *B* or above in the first two semesters of the program:

- Data Structure and Algorithms (CS 210)
- Data Engineering (CS 410)
- Applied Probability and Statistics (ST A 345)

Whether an applicant meets the above requirements will be based on the information provided in the admission application and transcripts. International students must meet MU English proficiency standards and all other admission criteria prior to registering for the first semester of courses.

Program Requirements

The M.S.D.S. degree requires 30 credit hours (CR) of graduate work. The 30 CR is composed of the following components:

- Required core courses (18 CR)
- Domain Emphasis (12 CR)
  The Domain Emphasis gives students a good understanding of a particular domain. A student is required to take 9 credits hours in one domain emphasis and 3 credit hours of free elective in any of the three domain areas:
  - Computing: This domain emphasis tackles computing areas including high performance computing, cloud computing, IoT, Artificial Intelligence, Cybersecurity, bioinformatics, etc.
  - Information Systems: This domain emphasizes the use of information technology and their expected utility of their information systems.
  - Predictive Analytics: This domain emphasis gives students the opportunity to learn the use of various statistical modelling techniques that are applicable to predictive analytics.

Thesis Option in Domain Emphasis

Students may choose a thesis option replacing two courses from in the Domain Emphasis. The thesis option (Thesis I and 2) offers students an opportunity for in-depth understanding and investigation into an area of interest. Students must summarize their thesis work in the form of a formal written document and deliver an oral presentation. Thesis work is typically conducted over two semesters. The thesis option can be taken after the completion of 12 credit hours. The 6 CR of the thesis option cannot be combined in a semester. If a student in the thesis option wishes to switch to the non-thesis option, the credit hours for the thesis will not count toward fulfilling the graduation requirement.

Plan of Study

Code	Title	Credit Hours
Required Core Courses		
CS 511	Advanced Programming	3
CS 630	Machine Learning	3
CS 660	Big Data Systems	3
CS 670	Visual Analytics	3
STA 535	Statistical Data Mining	3
STA 634	Stat Mtds for Researchers	3
Domain Emphasis - choose one		**12**
Computing (see below)		
Information Systems (see below)		

Predictive Analytics (see below)		
Total Credit Hours		**30**

Code	Title	Credit Hours
Computing Domain		
Select 9 hours from the following		9
CS 505	Computing for Bioinformatics	
CS 540	Digital Image Processing	
CS 600	Advanced Web Technology	
CS 601	The Internet of Things	
CS 602	Cloud Computing	
CS 620	Applied Algorithms	
CS 645	Advanced Topics Bioinformatics	
CS 681	Thesis	
Free elective from any of the domain areas		3
Total Credit Hours		**12**

Code	Title	Credit Hours
Information Systems Domain		
Select 9 hours from the following:		9
IS 600		
MIS 624	Data Warehousing	
MIS 610	Systems Quality Assurance	
MIS 610	Systems Quality Assurance	
IS 621		
MIS 622	Emerging Tech in Info Systems	
IS 623		
HIN 535	Applied Healthcare DB	
IS 665		
MIS 681	Thesis	
One free elective from any of the domain areas		3
Total Credit Hours		**12**

Code	Title	Credit Hours
Predictive Analytics Domain		
Select 9 hours from the following:		9
STA 512	Regression Analysis	
STA 513	Experimental Designs	
STA 520	Nonparametric Statistics	
STA 564	Statistical Computing	
STA 570	Applied Survival Analysis	
STA 662	Appl Multivariate Stat Methods	
STA 663	Time Series Forecasting	
STA 664	Bayesian Statistics	
STA 665	Advanced Stat Learning	
STA 681	Thesis	
One free elective from any of the domain areas		3
Total Credit Hours		**12**

Electrical and Computer Engineering M.S.E.E.

Program Description

The Master of Science in Electrical and Computer Engineering (M.S.E.E.) degree is designed to provide students with the knowledge, skill, and professional practices needed to develop and design electrical or computer engineering related systems. The program also prepares students who desire to pursue further graduate work leading to a Ph.D. degree.

Admission Requirements

Applicants should follow the admissions process described in this catalog or at the Graduate Admissions website: http://www.marshall.edu/graduate/admissions/how-to-apply-for-admission (http://www.marshall.edu/graduate/admissions/how-to-apply-for-admission/). Each applicant must have an undergraduate

At least one letter of recommendaengineering degree from either an accredited ABET curriculum or an internationally recognized program.

1. If applicants have an undergraduate 2.5 or higher GPA on a 4.0 scale and have already passed the PE exam in the major for which they are applying (official copy of certificate to be sent to the Marshall University Graduate Admissions Office), their applications will be accepted.
2. If applicants have an undergraduate GPA of 3.0 or higher on a 4.0 scale in an engineering major closely related to that for which they are applying, their applications will be evaluated on a case-by-case basis.
3. If applicants have an undergraduate GPA between a 2.5 and 3.0 on a 4.0 scale in an engineering major closely related to that for which they are applying, applicants must take the GRE exam or pass the FE exam, and have their official GRE scores or official FE certificate sent to the Marshall University Graduate Admissions office. The applications will be evaluated on a case-by-case basis.tion is required for all applicants.

International applicants must provide proof of English proficiency according to applicable university requirements.. International applicants must meet all other admission criteria prior to being admitted to the program and registering for the first semester of courses.

A current non-degree or degree-seeking Marshall University student who holds an undergraduate engineering degree, may apply to be considered for admission to the M.S.E. degree program if s/he has at least a minimum cumulative graduate GPA of 3. 30 in his or her first 9 credit hours of M.S.E. courses. For international students, the English requirements stated above must still be satisfied.

Eligibility to take the PE exam is based primarily on completion of an ABET-accredited undergraduate engineering degree in most states. Completion of a M.S.E. graduate degree at an institution with an ABET-accredited undergraduate degree does not fulfill that requirement to take the PE exam.

Program Requirements

The Master of Science in Electrical and Computer Engineering (M.S.E.E.) degree is designed to provide students with the knowledge, skill, and

professional practices needed to develop and design electrical and computer engineering related systems. The program also prepares students who desire to pursue further graduate work leading to a Ph.D. degree.

Each degree candidate is required to complete at least 30 graduate credit hours, depending on the option chosen below (thesis, or coursework only), with a cumulative Grade Point Average of 3.0 for the courses included in the student's Plan of Study. At least one-half of the minimum required hours for the degree must be earned in classes numbered 600 or above.

Each degree-seeking student must file an approved Plan of Study, developed with a faculty advisor, before the student registers for the 12th credit hour. The Academic Regulations portion of the Graduate Catalog may be consulted for additional information. The Plan of Study should define a focus area for the individual student that is related to the student's technical and professional development interests.

Examples of focus areas include:

- power; signal processing;
- control and embedded systems;
- communications and integrated systems;
- computer architecture;
- computer vision and machine intelligence; and
- network and security.

At least three of the Elective Courses (9 CR) must be within the student's focus area at the 600 level.

Students may choose to complete either the thesis option or the coursework-only option after consultation with their academic advisor.

Focus Courses

(9 CR)

All graduate students in the M.S.E.E. program must develop a graduate focus area of study, with prior approval from their advisor and the department head. The focus area should consist of at least 9 CR of graduate study in electrical and computer engineering (EE 600 or higher) and be related to the student's technical and professional development interests. Examples of focus areas include power; signal processing; control and embedded systems; communications and integrated systems; computer architecture; computer vision and machine intelligence; and network and security.

4.3.3 Elective Courses

(3 - 12 CR)

Graduate students pursuing the thesis option must complete a minimum of 3 CR of elective courses. Graduate students pursuing the design project option must complete a minimum of 6 CR of elective courses. Graduate students pursuing the Coursework Only Option must complete a minimum of 12 CR of elective courses. The elective courses must be approved by the advisor.

Comprehensive Assessment

(3-6 CR)

Thesis Option (6 CR)

Prior to completing 12 semester credit hours of graduate work, students should prepare and present a formal thesis proposal to their faculty advisor. An acceptable proposal (including a statement of work, extensive literature search, and proposed timeline), signed by the student and approved by their faculty advisor and department head, is required prior to registering for thesis credits.

Students must form a graduate thesis committee in coordination with their advisor and present their proposal to their committee for review and approval during the first semester in which they have registered for thesis credit. Students are required to deliver a successful written and oral presentation of their thesis.

Coursework-Only Option (NC)

The Master of Science in Electrical and Computer Engineering degree may be completed without the preparation of a formal research thesis or report. Instead, a student may be permitted to enroll in a no thesis/no report (coursework only) program which involves additional coursework. The student must complete at least thirty-three graduate credits of approved courses. During the first semester of the M.S.E.E. program, the student should select an advisor. Each student will have an individual Program of Courses approved by the student's assigned advisor and the division's chair by the end of the first semester of the program. For this option only, the student must satisfactorily complete the comprehensive examination prior to graduation.

Plan of Study

Core Courses

All graduate students in the M.S.E.E. program are required to complete four required core courses:

Code	Title	Credit Hours
EE 606	Electrical Analysis	3
EE 602	Random Signals & Noise	3
EE 607	Adv Electrical Engr	3
EE 608	Research Methods [1]	3
Total Credit Hours		**12**

[1] Another 600-level EE course approved by the advisor and department head can be substituted for the coursework-only option.

Students are required to complete a Plan of Study form in consultation with their academic advisors by the end of the first semester in the program.

Approved Elective Courses

- Any ME (Mechanical Engineering) course approved in advance by the student's advisor
- Any EM (Engineering Management) course approved in advance by the student's advisor
- Any ENGR (Engineering) course approved in advance by the student's advisor
- Any CS (Computer Science) course approved in advance by the student's advisor

Electrical and Computer Engineering, Accelerated Graduate Degree

Bachelor of Science in Electrical Engineering (B.S.E.E.) students accepted to an Accelerated Graduate Degree (AGD) program can begin taking graduate level classes while still in their undergraduate program. These graduate credits can be used for both the undergraduate and graduate level coursework and will help facilitate an easy and fast transition into a graduate program if a student is accepted. To be accepted into the AGD, please see your advisor to see if you qualify for one of these positions.

Undergraduates accepted into an AGD program can begin taking graduate coursework during their junior or senior year. Programs offering an AGD option may allow up to 12 hours of graduate level coursework to also count towards an undergraduate degree.

Graduate coursework/credit will appear only on the graduate transcript, and graduate course grades will be calculated towards the graduate GPA.

Eligibility Requirements for AGD Program

- Must have completed at least 60 hours toward the Bachelor's degree;
- Must have at least a 3.30 overall undergraduate GPA;
- Must have at least a 3.30 GPA in the major;
- Must meet the admission requirements of the chosen graduate degree program, apart from the receipt of a bachelor's degree. Students must earn a bachelor's degree to be fully admitted into the graduate degree program.

AGD programs may have admission requirements that differ from the admission requirements for the regular graduate degree. For example, some departments might waive the required admission test, such as the GRE or GMAT. Students should check with the chosen graduate degree program.

How to Apply

1. During the junior or senior year, eligible students should meet with their Undergraduate Advisor and the Director of Graduate Studies of their chosen graduate degree program to develop an AGD plan of study. Any changes to the AGD plan of study must be approved by the undergraduate advisor and director of graduate studies in writing to the dean of the college housing the graduate program.
2. The student's acceptance into the AGD program is subject to the approval of the plan of study by the dean of the college housing the graduate program.
3. Students accepted into the AGD program should apply for admission to the chosen graduate degree program for the first semester after the bachelor's degree is awarded. Admission applications should be submitted during the last semester of the senior year.

Students must maintain a minimum GPA of 3.0 for all graduate credit toward their graduate degree program.

Withdrawal from the AGD

A student may withdraw at any time from the AGD by informing in writing the undergraduate advisor, the director of graduate studies and the dean of the college housing the graduate program. The student's status will then revert to the standard undergraduate degree program. Any graduate hours earned must be approved for use in fulfillment of bachelor's degree requirements by the student's undergraduate dean.

From Undergraduate to Graduate Student

Beginning with the semester after the student has earned the bachelor's degree and has been accepted into a graduate degree program, the student is enrolled in the graduate program and is assessed tuition and fees at the graduate rate. All rules regarding graduate education will apply to the student once admitted into the graduate degree program.

Bachelor of Science in Electrical Engineering (B.S.E.E.) students enrolled in the AGD for the Master of Science in Electrical Engineering (M.S.E.E.) can substitute up to 12 graduate credit hours toward the B.S.E.E.

1. EE 330 Random Signals and Systems can be substituted with EE 602 Random Signals & Noise.
2. ENGR 335 Adv Engineering Analysis can be substituted with EE 607 Adv Electrical Engr.
3. Two technical electives (6 credit hours) can be substituted with two 500 or 600 level EE elective courses.

Engineering Management, B.S.C.E. Accelerated Graduate Degree

Undergraduate students in the Bachelor of Science in Civil Engineering (B.S.C.E.) that are accepted to an Accelerated Graduate Degree (AGD) program can begin taking graduate level classes while still in their undergraduate program. These graduate credits can be used for both the undergraduate and graduate level coursework and will help facilitate an easy and fast transition into a graduate program if a student is accepted. To be accepted into the AGD, please see your advisor to see if you qualify for one of these positions.

Undergraduates accepted into an AGD program can begin taking graduate coursework during their junior or senior year. Programs offering an AGD option may allow up to 12 hours of graduate level coursework to also count towards an undergraduate degree.

Graduate coursework/credit will appear only on the graduate transcript, and graduate course grades will be calculated towards the graduate GPA.

Eligibility Requirements for AGD Program

- Must have completed at least 60 hours toward the Bachelor's degree;
- Must have at least a 3.30 overall undergraduate GPA;
- Must have at least a 3.30 GPA in the major;
- Must meet the admission requirements of the chosen graduate degree program, apart from the receipt of a bachelor's degree. Students must earn a bachelor's degree to be fully admitted into the graduate degree program.

AGD programs may have admission requirements that differ from the admission requirements for the regular graduate degree. For example, some departments might waive the required admission test, such as the GRE or GMAT. Students should check with the chosen graduate degree program.

How to Apply

1. During the junior or senior year, eligible students should meet with their Undergraduate Advisor and the Director of Graduate Studies of their chosen graduate degree program to develop an AGD plan of study. Any changes to the AGD plan of study must be approved by the undergraduate advisor and director of graduate studies in writing to the dean of the college housing the graduate program.
2. The student's acceptance into the AGD program is subject to the approval of the plan of study by the dean of the college housing the graduate program.
3. Students accepted into the AGD program should apply for admission to the chosen graduate degree program for the first semester after the bachelor's degree is awarded. Admission applications should be submitted during the last semester of the senior year.

Students must maintain a minimum GPA of 3.0 for all graduate credit toward their graduate degree program.

Withdrawal from the AGD

A student may withdraw at any time from the AGD by informing in writing the undergraduate advisor, the director of graduate studies and the dean of the college housing the graduate program. The student's status will then revert to the standard undergraduate degree program. Any graduate hours earned must be approved for use in fulfillment of bachelor's degree requirements by the student's undergraduate dean.

From Undergraduate to Graduate Student

Beginning with the semester after the student has earned the bachelor's degree and has been accepted into a graduate degree program, the student is enrolled in the graduate program and is assessed tuition and fees at the graduate rate. All rules regarding graduate education will apply to the student once admitted into the graduate degree program.

Course Requirements

Bachelor of Science in Civil Engineering (B.S.C.E.) students who are enrolled in the M.S.E. in Engineering Management can substitute 12 graduate credit hours towards the B.S.C.E.

1. can be substituted with EM 660 Project Management as an M.S.E. course.
2. A Technical Elective can be substituted with EM 668 Operations Management as an M.S.E. course.
3. Two Civil Engineering Technical Electives (6 credit hours) that can be substituted by 500 or 600 level ENGR, CE or ENVE courses as approved by the academic advisor.

Engineering Management, B.S.E.E. Accelerated Graduate Degree

Undergraduate students in the Bachelor of Science in Electrical Engineering (B.S.E.E.) that are accepted to an Accelerated Graduate Degree (AGD) program can begin taking graduate level classes while still in their undergraduate program. These graduate credits can be used for both the undergraduate and graduate level coursework and will help facilitate an easy and fast transition into a graduate program if a student is accepted. To be accepted into the AGD, please see your advisor to see if you qualify for one of these positions.

Undergraduates accepted into an AGD program can begin taking graduate coursework during their junior or senior year. Programs offering an AGD option may allow up to 12 hours of graduate level coursework to also count towards an undergraduate degree.

Graduate coursework/credit will appear only on the graduate transcript, and graduate course grades will be calculated towards the graduate GPA.

Eligibility Requirements for AGD Program

- Must have completed at least 60 hours toward the Bachelor's degree;
- Must have at least a 3.30 overall undergraduate GPA;
- Must have at least a 3.30 GPA in the major;
- Must meet the admission requirements of the chosen graduate degree program, apart from the receipt of a bachelor's degree. Students must earn a bachelor's degree to be fully admitted into the graduate degree program.

AGD programs may have admission requirements that differ from the admission requirements for the regular graduate degree. For example, some departments might waive the required admission test, such as the GRE or GMAT. Students should check with the chosen graduate degree program.

How to Apply

1. During the junior or senior year, eligible students should meet with their Undergraduate Advisor and the Director of Graduate Studies of their chosen graduate degree program to develop an AGD plan of study. Any changes to the AGD plan of study must be approved by the undergraduate advisor and director of graduate studies in writing to the dean of the college housing the graduate program.
2. The student's acceptance into the AGD program is subject to the approval of the plan of study by the dean of the college housing the graduate program.
3. Students accepted into the AGD program should apply for admission to the chosen graduate degree program for the first semester after the bachelor's degree is awarded. Admission applications should be submitted during the last semester of the senior year.

Students must maintain a minimum GPA of 3.0 for all graduate credit toward their graduate degree program.

Withdrawal from the AGD

A student may withdraw at any time from the AGD by informing in writing the undergraduate advisor, the director of graduate studies and the dean of the college housing the graduate program. The student's status will then revert to the standard undergraduate degree program. Any graduate hours earned must be approved for use in fulfillment of bachelor's degree requirements by the student's undergraduate dean.

From Undergraduate to Graduate Student

Beginning with the semester after the student has earned the bachelor's degree and has been accepted into a graduate degree program, the student is enrolled in the graduate program and is assessed tuition and fees at the graduate rate. All rules regarding graduate education will apply to the student once admitted into the graduate degree program.

Course Requirements

Bachelor of Science in Electrical Engineering (B.S.E.E.) students who are enrolled in the M.S.E. in Engineering Management can substitute 12 graduate credit hours towards the B.S.E.E.

1. Two Technical Electives (6 credit hours) that can be substituted by 500 or 600 level M.S.E. courses as approved by the graduate advisor.
2. EE 330 Random Signals and Systems can be substituted with EE 602 Random Signals & Noise as an M.S.E. elective course.
3. ENGR 335 Adv Engineering Analysis can be substituted with EE 607 Adv Electrical Engr as an M.S.E. elective course.

Engineering Management, M.S.E.

Program Description

The M.S. in Engineering (M.S.E.) program is an interdisciplinary engineering program designed to meet the specific needs of engineers employed in industry, government, and consulting, as well as those desiring a traditional research-based graduate degree. The program offers a broad core curriculum with opportunities for concentrated study in two majors: Engineering Management and Civil and Environmental Engineering.

Admission Requirements

Applicants should follow the admissions process described in this catalog or at the Graduate Admissions website: http://www.marshall.edu/graduate/admissions/how-to-apply-for-admission (http://www.marshall.edu/graduate/admissions/how-to-apply-for-admission/). Each applicant must have an undergraduate engineering degree from an ABET accredited program, or for international programs from a university that is accredited in the country where it is located.

1. If applicants have an undergraduate GPA of 2.75 or higher on a 4.0 scale then they will be admitted.
2. If applicants have an undergraduate GPA below 2.75 on a 4.0 scale then their applications will be evaluated on a case-by-case basis. Applicants should send to the Marshall University Graduate Admissions office at least one of the following: GRE scores, evidence of having passed the NCEES FE exam, NCEES PE exam, or PMP exam.

Program Requirements

Each degree candidate is required to complete at least 30 graduate credit hours, depending on the option chosen below (project, thesis, or coursework only), with a cumulative Grade Point Average of 3.0 for the courses included in the student's Plan of Study. At least one-half of the minimum required hours for the degree must be earned in classes numbered 600 or above.

Each degree-seeking student must file an approved Plan of Study, developed with a faculty advisor, before the student registers for the 12th credit hour. The Academic Regulations portion of the Graduate Catalog may be consulted for additional information.

A student may only earn the M.S.E. degree once. Therefore, students wishing to complete two M.S.E. majors (*i.e.*, double major) must complete all requirements for both majors before the degree is awarded. A maximum of 12 credit hours may be counted toward both majors, as approved by the student's academic advisor in each major. An option must be selected for each major and the two options are permitted to be different. However, each major must have its own comprehensive assessment (*i.e.*, comprehensive project, thesis, or comprehensive examination). For example, a single thesis and defense cannot satisfy the requirements for both majors.

Students may choose to complete either the project option, the thesis option, or the coursework-only option after consultation with their academic advisors.

Project Option. The comprehensive project involves the application of coursework completed as part of the degree to a practical problem. Students will work with their advisors to identify an appropriate project and scope. Students must prepare a formal written report and deliver an oral presentation to a committee. Students register for a 3 hours of ENGR 682 Research during the semester in which their project will be completed and presented, but preliminary work on the project may commence before that semester.

Thesis Option. The thesis option involves the completion of 6 hours of ENGR 682 Research under the direction of an advisor on an approved project. Students must summarize their work in the form of a formal, written document and successfully defend the thesis before a committee. Thesis work is typically conducted over two semesters.

Coursework-Only Option. Students complete 30 hours of coursework and then complete a comprehensive examination within the last two semesters of graduation to fulfill the requirements of their degree program. Examinations will be administered no more than once per semester for any student. If the student does not pass the exam within three attempts, the student will be dismissed from the program.

Plan of Study

Coursework-Only Option

Code	Title	Credit Hours
Required Courses		
EM 620	Mgt Tech HR & Orgs	3
EM 660	Project Management	3
EM 668	Operations Management	3

EM 675	Engineering Economics (or TM equivalent)	3
EM 694	Engineering Law	3
or ES 550	Environmental Law & Policy	
or LE 691	Gov Bus Relationships	
or HCA 630	Legal Issues/Health Care Mgt	
or STHM 615	Legal Concerns in Sport Admin	
ENGR 610	Applied Statistics	3
or STA 634	Stat Mtds for Researchers	
or STA 545	Probability and Statistics I	
Elective Courses		
Select 12 hours from approved Engineering Management electives (p. 187)		12
Total Credit Hours		**30**

Project Option

Code	Title	Credit Hours
Required Courses		
EM 620	Mgt Tech HR & Orgs	3
EM 660	Project Management	3
EM 668	Operations Management	3
EM 675	Engineering Economics	3
EM 694	Engineering Law	3
or ES 550	Environmental Law & Policy	
or LE 691	Gov Bus Relationships	
or HCA 630	Legal Issues/Health Care Mgt	
or STHM 615	Legal Concerns in Sport Admin	
ENGR 610	Applied Statistics	3
or STA 634	Stat Mtds for Researchers	
or STA 545	Probability and Statistics I	
ENGR 682	Research	3
Elective Courses		
Select 9 hours from approved Engineering Management electives (p. 187)		9
Total Credit Hours		**30**

Thesis Option

Code	Title	Credit Hours
Required Courses		
EM 620	Mgt Tech HR & Orgs	3
EM 660	Project Management	3
EM 668	Operations Management	3
EM 675	Engineering Economics	3
EM 694	Engineering Law	3
or ES 550	Environmental Law & Policy	
or LE 691	Gov Bus Relationships	
or HCA 630	Legal Issues/Health Care Mgt	
or STHM 615	Legal Concerns in Sport Admin	
ENGR 610	Applied Statistics	3
or STA 634	Stat Mtds for Researchers	
or STA 545	Probability and Statistics I	
ENGR 682	Research	6
Elective Courses		
Select 6 hours from approved Engineering Management electives (p. 187)		6
Total Credit Hours		**30**

Approved Elective Courses for the Engineering Management Major

- Any EM (Engineering Management) course.
- Any College of Business course approved in advance by the advisor.
- Any engineering course approved in advance by the advisor.

Engineering, Ph.D.

Engineering, Ph.D.

Driven by cutting-edge research, the Ph.D. in Engineering program at Marshall University provides students with advanced knowledge and expertise in specialized engineering fields. The program provides maximum flexibility for students and faculty to address 21st century engineering problems with the advancement of their field and for success in a range of careers in academia, research, government, industry leadership, or innovation.

Admission Requirements

The doctoral degree is a research degree granted on the basis of broad knowledge of engineering and in-depth study in a specific area leading to a dissertation reflecting original work by the doctoral candidate. When applying for admission, a student must meet the following minimum requirement for admission to the program in addition to the general requirements of Graduate Studies at the University:

- Earned Master's degree in a relevant discipline with a minimum GPA of 3.0 on a 4.0 scale; Or

Bachelor's degree in a relevant engineering or computing discipline with a minimum GPA of 3.5 on a 4.0 scale;

- Three (3) letters of recommendation that demonstrate strong evidence for a high potential for success in doctoral studies and research;
- A résumé/C.V.
- A statement of purpose (up to 2 pages long), including an applicant's personal motivation, desired field of study, research area, and career goals.
- All applicants, regardless of citizenship, must provide proof of English proficiency to be considered for admission to Marshall University. Graduate English proficiency requirements are available here: https://www.marshall.edu/admissions/graduate-proof-of-english-proficiency/;
- No Graduate Record Exam (GRE) score is required, but one may be submitted to strengthen an application.

Fulfilling the minimum requirements does not guarantee admission and factors such as appropriateness of the applicant's research objectives to the research interests of the program faculty, availability of faculty to supervise the applicant's research, availability of research funds to support the research, and prior research accomplishments of the applicant will also influence the admission decision. The criteria described below are used to evaluate admission to the program:

- Prior experience in undergraduate or graduate research.

- Post-BS degree and/or professional experience relevant to the planned degree of study.
- Peer-reviewed publications and/or award-winning presentations in technical conferences.
- Availability of appropriate faculty to serve as research advisor(s) and availability of research funds to support the student's desired program of study.
- The applicant's test scores, recommendations, and relevant work experience must indicate a high potential for success in doctoral studies and research.

In addition, an applicant who does not meet the minimum requirements may still be admitted with provisional standing if they have potential for success as a doctoral student. His/her status may be changed to full standing after satisfying requirements specified by the director of the program, in consultation with the appropriate department chairperson, at the time of admission. If admitted in provisional standing, the student must remove all deficiencies and apply for reclassification to full standing prior to the completion of fifteen (15) graduate credit hours.

Although the general requirements for the doctoral program are the same for all departments in the College of Engineering and Computer Sciences (CECS), each department may include additional degree requirements for students pursuing specialization in that department to support specialized research.

Graduation Requirements

The Ph.D. in Engineering requires academic work, consisting of course work and dissertation work in a specialized area, beyond baccalaureate work. Qualifying and comprehensive examinations and dissertation are also required. All requirements, including the dissertation, must be completed within a period of eight consecutive years. Maintenance of a minimum quality point average of 3.0 and adherence to the general regulations of Graduate Studies is expected.

Qualifying Exam

All students must complete a qualifying examination based mostly on undergraduate materials in their chosen discipline through a formal process established by the department prior to the end of the first year of doctoral study. Students admitted with a bachelor's degree on an exceptional basis must successfully complete the qualifying examination before the end of the regular semester of enrollment in which the student is completing 24 hours or more of graduate coursework. The process should include, at a minimum, an examination of the student's fundamental knowledge managed by the Graduate Committee of the department. Based on the student's performance on the qualifying examination, the student may be:

1. Permitted to continue in the doctoral program; Or
2. Advised to transfer to a M.S. degree program in an appropriate discipline in the College (for students admitted without an M.S. in their chosen discipline): Or
3. Recommended for termination from the graduate program of the College.

Dissertation Work Requirements

A minimum of twenty (20) credit hours of doctoral research and dissertation ENGR 702 Dissertation Research) built upon the student's course of study and making a significant contribution to the state of knowledge or to the art of the engineering profession is required; not more than 12 credit hours may be earned in a particular semester:

ENGR 702 Dissertation Research can be taken as 1-12 credit hours at a time.

Dissertation Committee

Each doctoral student's dissertation committee must be formed after the successful completion of the student's qualifying examination or the second semester in the program. The committee *consists* of a minimum of four (4) voting members from two or more disciplines in the academic unit at Marshall University or another accredited university. Additionally, should none of the four committee members chosen have experience with serving on a doctoral committee, a fifth member with experience may be appointed by the Dean in consultation with the Program Director from outside the department, college, or university. The student is responsible for identifying, in consultation with the department chairperson or program director, a faculty member who is willing to chair his/her advisory committee. The chairperson of the committee and the student are responsible for identifying the other faculty members required/desired and determining if they are willing to serve.

The Plan of Study must be completed before the end of the second semester of enrollment for the degree or completion of 12 credit hours of graduate courses, whichever comes first. Each proposed Plan of Study must be approved by the student's dissertation committee, the department chairperson, the program Director, and the Dean.

Comprehensive Examination and Admission to Candidacy

The comprehensive examination will consist of a written portion and an oral defense of the written research proposal. The written portion will consist of several parts as appropriate to the major discipline and the research area. This examination will test the student's breadth of knowledge in the discipline, depth of knowledge in selected areas, and the ability to integrate the knowledge acquired from several courses. This examination must be given after the student has completed at least eighty (80) percent of the coursework beyond the master's degree with a point average of 3.0 or above, as prescribed in the program of study. However, the written comprehensive examination should be completed before the end of the semester following completion of the coursework prescribed in the Plan of Study. All parts of the written examination should be completed within a period of two (2) weeks.

The written research proposal should, as a minimum, consist of the development of the research problem from the extant knowledge in the area, the approach and methodology to be followed, the expected original contribution to the extant knowledge, and the expected timeline for the completion of the research. The student should submit copies of the written proposal to the committee within thirty (30) days from the date of taking the final part of the written examination, and the proposal defense will be scheduled shortly thereafter. The student will be informed of the results of the entire comprehensive examination (written part and proposal presentation) at the end of the defense of the research proposal.

On passing the entire comprehensive examination, the student will be admitted to candidacy for the doctoral degree. Normally, a student not passing any part of the comprehensive examination will not be permitted to continue in the doctoral program. However, at the request of the student and the agreement of the committee, a second chance may be given to the student to pass that part of the

examination that he/she did not pass within a year. The committee may prescribe additional academic work to be undertaken by the student prior to making the second attempt. No student will be permitted to continue in the program if he/she does not successfully complete all parts of the comprehensive examination after the second attempt.

Residency Requirement (4 semesters)

A residence of four (4) regular semesters, with at least two (2) semesters in continuous residence, is required. For students who wish to complete the doctoral program in a part-time capacity due to employment in a local industry, accommodation on residency will be negotiated between the student and his/her dissertation committee.

Course Requirements

The Ph.D. in Engineering requires academic work, consisting of course work and dissertation work in a specialized area, beyond baccalaureate work. Qualifying and comprehensive examinations and dissertation are also required. All requirements, including the dissertation, must be completed within a period of eight consecutive years. Maintenance of a minimum quality point average of 3.0 and adherence to the general regulations of Graduate Studies is expected.

- Required Coursework (18 or 48 credit hours)

The required courses for all disciplines include:

Code	Title	Credit Hours
ENGR 701	Research Methods for Doc	3
EM 660	Project Management	3
EM 675	Engineering Economics	3
Additional hours of graduate coursework in the chosen discipline. This coursework is to be negotiated with the student's dissertation committee and taken at the full graduate level (600 or above) level.		9
Total Credit Hours		**18**

1. For Students Admitted with a master's degree (18 credit hours)

   A minimum of eighteen (18) credit hours of coursework beyond the master's degree including six (6) credit hours of full graduate courses acceptable to the student's advisory committee. If a student completed a thesis at the master's level, then six (6) credit hours of thesis research can be substituted for graduate coursework.

2. For students Admitted with a bachelor's degree (48 credit hours)

Code	Title	Credit Hours
ENGR 701	Research Methods for Doc	3
EM 660	Project Management	3
EM 675	Engineering Economics	3
Additional hours of graduate coursework in the chosen discipline. This coursework is to be negotiated with the student's dissertation committee and taken at the full graduate level (600 or above) level.		9
A minimum of fifteen (15) credit hours at the full graduate level (600 or above), including the courses listed above		15
A minimum of fifteen(15) credit hours at the 500 or 600 level, acceptable to the student's advisory committee.		15
Total Credit Hours		**48**

Environmental Safety and Health, Accelerated Graduate Degree

Bachelor of Science (B.S.) in Occupational Safety and Health students accepted to an Accelerated Graduate Degree (AGD) program for the M.S. in Environmental Safety and Health can begin taking graduate level classes while still in their undergraduate program. These graduate credits can be used for both the undergraduate and graduate level coursework and will help facilitate an easy and fast transition into a graduate program if a student is accepted. To be accepted into the AGD, please see your advisor to see if you qualify for one of these positions.

Undergraduates accepted into an AGD program can begin taking graduate coursework during their junior or senior year. Programs offering an AGD option may allow up to 12 hours of graduate level coursework to also count towards an undergraduate degree.

Graduate coursework/credit will appear only on the graduate transcript, and graduate course grades will be calculated towards the graduate GPA.

Eligibility Requirements for AGD Program

- Must have completed at least 60 hours toward the Bachelor's degree;
- Must have at least a 3.30 overall undergraduate GPA;
- Must have at least a 3.30 GPA in the major;
- Must meet the admission requirements of the chosen graduate degree program, apart from the receipt of a bachelor's degree. Students must earn a bachelor's degree to be fully admitted into the graduate degree program.

AGD programs may have admission requirements that differ from the admission requirements for the regular graduate degree. For example, some departments might waive the required admission test, such as the GRE or GMAT. Students should check with the chosen graduate degree program.

How to Apply

1. During the junior or senior year, eligible students should meet with their Undergraduate Advisor and the Director of Graduate Studies of their chosen graduate degree program to develop an AGD plan of study. Any changes to the AGD plan of study must be approved by the undergraduate advisor and director of graduate studies in writing to the dean of the college housing the graduate program.
2. The student's acceptance into the AGD program is subject to the approval of the plan of study by the dean of the college housing the graduate program.
3. Students accepted into the AGD program should apply for admission to the chosen graduate degree program for the first semester after the bachelor's degree is awarded. Admission applications should be submitted during the last semester of the senior year.

Students must maintain a minimum GPA of 3.0 for all graduate credit toward their graduate degree program.

Withdrawal from the AGD

A student may withdraw at any time from the AGD by informing in writing the undergraduate advisor, the director of graduate studies and the dean of the college housing the graduate program. The student's status will then revert to the standard undergraduate degree program. Any graduate hours earned must be approved for use in fulfillment of bachelor's degree requirements by the student's undergraduate dean.

From Undergraduate to Graduate Student

Beginning with the semester after the student has earned the bachelor's degree and has been accepted into a graduate degree program, the student is enrolled in the graduate program and is assessed tuition and fees at the graduate rate. All rules regarding graduate education will apply to the student once admitted into the graduate degree program.

Course Requirements

AGD students are permitted to take SFT 554 Indust Hygiene I in place of SFT 454 Industrial Hygiene, SFT 647L Quan Indus Hygiene Lab in place of SFT 454L Industrial Hygiene Lab, and two graduate-level electives in place of two undergraduate SFT Electives.

Environmental Science, Minor

Graduate students from other majors may obtain a graduate Minor in Environmental Science by completing any three Environmental Science courses at the 500 level or 600 level for a total of nine hours of graduate work, with written permission in advance from the student's academic advisor and the Environmental Science Program Coordinator prior to the student taking the courses.

Environmental, Safety and Health, M.S.

Program Description

The environmental, safety and health program gives the student the broad multi-disciplinary subject matter and analytical tools necessary to be successful in such professions as consulting, industrial environmental, safety and health management, employee safety and environmental protection. Students from diverse science backgrounds apply their knowledge and skills to problems such as air pollution and control; water pollution and treatment; groundwater protection, contamination and remediation; solid and hazardous waste management; industrial hygiene; and employee safety and health.

Admission Requirements

Applicants should follow the admissions process described in this catalog or at the Graduate Admissions website: www.marshall.edu/graduate/admissions/how-to-apply-for-admission (http://www.marshall.edu/graduate/admissions/how-to-apply-for-admission/).

Each applicant must satisfy at least ONE of the following criteria:

- Score at the mean or above on the verbal GRE
- Score at the mean or above on the quantitative GRE
- Score at the mean or above on the analytical GRE
- Score at the mean or above on the Miller Analogies Test
- Have an undergraduate GPA of 2.50 or above
- Have passed the Fundamentals of Engineering exam and/or the Professional Engineering exam

In addition to the general requirements all students entering the graduate Environmental Science program must have completed prior to admission the following courses **or** their equivalent:

CHM 205 General, Organic, and Biochem and MTH 130 College Algebra with a grade of *C* or better, **and** a minimum total of **five** (5) courses/competencies, relevant to environmental, safety and health, from the following:

- Chemistry (200 level or above);
- Physics (100 level or above);
- Biology; Geology; Geography; Statistics; Soil Science; Law; Health and Economics; or
- 10 years of relevant work experience.
-

Program Requirements

Students must complete 30 graduate credit hours (CH) at the graduate level, including at least 18 CH at Marshall University. The degree consists of 15 CH of core courses; 3-6 CH of required courses; and 9-12 CH of electives. At least 15 CH must be at the 600 level.

Students may choose to complete either the project option or the thesis option, after consultation with their academic advisor. Students must have a project or thesis proposal approved by their project or thesis advisor prior to enrolling in project (TE 699 Comprehensive Project or SFT 679 Problem Report) or thesis (ES 680 or SFT 681 Thesis).

Project Option. The comprehensive project involves the application of coursework completed as part of the degree to a practical problem. Students will work with their advisors to identify an appropriate project and scope. Students must prepare a formal written report and deliver an oral presentation to a committee. Students register for either Comprehensive Project (TE 699, 3 CH) or Problem Report (SFT 679, 3 CH) during the semester in which their project will be completed and presented, but preliminary work on the project may commence before that semester.

Thesis Option. The thesis option involves the completion of 6 CH of research (ES 680 or SGT 681) under the direction of an advisor on an approved project. Students must summarize their work in the form of a formal, written document and successfully defend the thesis before a committee. Thesis work is typically conducted over two semesters.

Plan of Study

On completion of the M.S. in Environmental, Safety and health degree program the student should have the requisite scope of knowledge and competency in specific environmental, safety and health subject matter. As students may not have the requisite background in the subject matter from their undergrad curriculum, some courses will be required based on the student's background. Students that do not have a Safety undergraduate background or that cannot otherwise satisfy the requirement will be required to take SFT 660 and SFT 598 as part of their M.S. Plan of Study. Students that do not have an ES undergraduate background or that cannot otherwise satisfy

the requirement will be required to take at least one of ES 604, ES 630, ES 640 or ES 665. The required and elective courses should be outlined in the Plan of Study. The Plan of Study should be developed in cooperation with and signed by the student's advisor and should be completed prior to registration for the 12th credit hour.

Electives for either degree option may be selected from the following:

- Any 500- or 600- level ES or SFT course not already taken to satisfy degree requirements.
- Any 500- or 600- level CE, CS, CYBR, EE, ENGR, ME course.
- Any 500- or 600- level BSC, GEO, GLY, MTH, NRE, PH, PHY or PS course.
- Any 500- or 600- level course approved in advance by the student's advisor.

Thesis Option

The thesis option involves completion of 6 CH of research (SFT 681 or ES 680 Thesis) under the direction of an advisor. The student must prepare a formal thesis proposal (including a statement of work, extensive literature search, and proposed timeline) in consultation with his or her advisor and present the proposal to the graduate thesis committee, which is formed in consultation with the advisor. The thesis proposal must be defended and approved by the thesis committee prior to the final semester of study (typically completed during the first semester of SFT 681/ES 680 Thesis). Students must then summarize their research work in the form of a formal, written thesis and successfully defend it before their thesis committee in order to fulfill the requirements for the degree (typically completed during the second semester of SFT 681/ES 680 Thesis). Thesis work is typically conducted over two semesters.

Code	Title	Credit Hours
SFT 599	Dev & Mgt of Occup Safety Prog	3
SFT 610	Intro to Prof Safety & Health	3
SFT 647	Industrial Hygiene II	3
ES 514	Environmental Risk Assessment	3
ES 550	Environmental Law & Policy	3
Electives		9
SFT 681	Thesis	6
or ES 680	Thesis	
Total Credit Hours		**30**

Project Option

The project option involves completion of 3 CH of comprehensive project (SFT 679 Problem Report or TE 699 Comprehensive Project). The comprehensive project involves the application coursework completed as part of the degree to a practical problem. Students will work their advisors to identify an appropriate project and scope. Students must prepare a formal written report and deliver an oral presentation to a committee. Students register for SFT 679 Problem Report or TE 699 Comprehensive Project (3 CH) during the semester in which their project completed and presented, but preliminary work on the project may commence before that semester.

Code	Title	Credit Hours
SFT 599	Dev & Mgt of Occup Safety Prog	3
SFT 610	Intro to Prof Safety & Health	3
SFT 647	Industrial Hygiene II	3
ES 514	Environmental Risk Assessment	3
ES 550	Environmental Law & Policy	3
Electives		12
TE 699	Comprehensive Project	3
or SFT 679	Problem Report	
Total Credit Hours		**30**

Mechanical Engineering, M.S.M.E.

Program Description

The Master of Science in Mechanical Engineering (M.S.M.E.) degree is designed to provide students with the knowledge, skill, and professional practices needed to develop and design mechanical engineering related systems. The program also prepares students who desire to pursue further graduate work leading to a Ph.D. degree.

Accelerated Graduate Degree in Mechanical Engineering

Students enrolled in the Mechanical Engineering Accelerated Graduate Degree program can complete the bachelor's degree by lowering the number of undergraduate credits with up to 12 graduate credits that will apply to the master's degree in mechanical engineering.

- *Thesis Option:* Three graduate ME courses can be taken to meet the technical electives requirement, and another required undergraduate course can be substituted by a ME graduate course.
- *Coursework Option:* Three graduate ME courses can be taken to meet the technical electives requirement, and another required undergraduate course can be substituted by a ME graduate course.

Applicants for the Accelerated Graduate Degree program in Mechanical Engineering must be undergraduate Mechanical Engineering students and have completed a minimum of 65 credit hours. The applicant must have a minimum overall Grade Point Average of 3.3.

Admission Requirements

Applicants should follow the admissions process described in this catalog or at the Graduate Admissions website: http://www.marshall.edu/graduate/admissions/how-to-apply-for-admission (http://www.marshall.edu/graduate/admissions/how-to-apply-for-admission/). Each applicant must have an undergraduate

At least one letter of recommendaengineering degree from either an accredited ABET curriculum or an internationally recognized program.

1. If applicants have an undergraduate 2.5 or higher GPA on a 4.0 scale and have already passed the PE exam in the major for which they are applying (official copy of certificate to be sent to the Marshall University Graduate Admissions Office), their applications will be accepted.
2. If applicants have an undergraduate GPA of 3.0 or higher on a 4.0 scale in an engineering major closely related to that for which they are applying, their applications will be evaluated on a case-by-case basis.
3. If applicants have an undergraduate GPA between a 2.5 and 3.0 on a 4.0 scale in an engineering major closely related to that for which they are applying, applicants must take the GRE exam or pass the

FE exam, and have their official GRE scores or official FE certificate sent to the Marshall University Graduate Admissions office. The applications will be evaluated on a case-by-case basis.tion is required for all applicants.

International applicants must provide proof of English proficiency according to applicable university requirements.. International applicants must meet all other admission criteria prior to being admitted to the program and registering for the first semester of courses.

A current non-degree or degree-seeking Marshall University student who holds an undergraduate engineering degree, may apply to be considered for admission to the M.S.E. degree program if s/he has at least a minimum cumulative graduate GPA of 3. 30 in his or her first 9 credit hours of M.S.E. courses. For international students, the English requirements stated above must still be satisfied.

Eligibility to take the PE exam is based primarily on completion of an ABET-accredited undergraduate engineering degree in most states. Completion of a M.S.E. graduate degree at an institution with an ABET-accredited undergraduate degree does not fulfill that requirement to take the PE exam.

Program Requirements

Each degree candidate is required to complete at least 30 graduate credit hours, with a cumulative Grade Point Average of 3.0 for the courses included in the student's Plan of Study. At least one-half of the minimum required hours for the degree must be earned in classes numbered 600 or above.

Each degree-seeking student must file an approved "Plan of Study," developed with a faculty advisor, before the student registers for the 12th credit hour. The M.S. degree in Mechanical Engineering requires a student to take a sequence of courses that shows a "clearly discernible specialty or concentration." In consultation with his/her advisor, an M.S. student can develop a concentration specifically tailored to his/her interests and objectives. Focus areas include sustainability, materials and manufacturing, bio-mechanical engineering, thermo/fluids, and mechanics/design. At least three of the elective courses (9 CR) must be within the student's focus area at the 600 level.

Students may choose to complete either the thesis option or the coursework-only option after consultation with their academic advisors.

Accelerated Graduate Degree in Mechanical Engineering

Students enrolled in the Mechanical Engineering Accelerated Graduate Degree program can complete the bachelor's degree by lowering the number of undergraduate credits (up to 12) with up to 12 graduate credits that will apply to the master's degree in mechanical engineering. Please see the section on Accelerated Graduate Degrees in this catalog for further information.

1. *Thesis Option:* Three graduate ME, CE, ENGR or EE Courses (500 or 600 Level) can be taken to meet the Technical Electives requirement. In addition, ENGR 451 Intro to Proj Management can be substituted by EM 660 Project Management, or ME 420 Control Systems can be substituted by ME 560 Automation and Control.
2. *Coursework Option:* Three graduate ME, CE, ENGR or EE (500 or 600 Level) can be taken to meet the Technical Electives requirement. In addition, ENGR 451 Intro to Proj Management can be substituted by EM 660 Project Management, or ME 420 Control Systems can be substituted by ME 560 Automation and Control.

Applicants for the Accelerated Graduate Degree program in Mechanical Engineering must be undergraduate Mechanical Engineering students and have completed a minimum of 80 credit hours, including:

Code	Title	Credit Hours
ENGR 318	Fluid Mechanics	3
ENGR 335	Adv Engineering Analysis	3
ME 310	Thermodynamics II	3
ME 340	Machine Element Design	3
ME 455	Metallurgy	3

The applicant must have a minimum overall Grade Point Average of 3.30, with 3.3 in the major and no less than a *B* grade in the following courses:

Code	Title	Credit Hours
ENGR 335	Adv Engineering Analysis	3
ME 310	Thermodynamics II	3
ME 340	Machine Element Design	3
ME 455	Metallurgy	3

Plans of Study

Thesis Option

(30 hours)

The thesis option involves the completion of 6 HR of ME 699 Thesis under the direction of an advisor on an approved topic. The student must prepare a formal thesis proposal (including a statement of work, extensive literature search, and proposed timeline) in consultation with his or her advisor and present the proposal to a graduate thesis committee, which is formed in consultation with the advisor. The thesis proposal must be defended and approved by the thesis committee prior to the final semester of study. Students must then summarize their research work in the form of a formal, written thesis and successfully defend it before their thesis committee in order to fulfill the requirements for the degree. Thesis work is typically conducted over two semesters.

Code	Title	Credit Hours
ENGR 570	Finite Elements	3
ME 601	Advanced Engr Analysis I	3
ME 602	Advanced Engr Analysis II	3
ME 604	Research Methods	3
Four Elective Courses (p.)		12
ME 699	Thesis	6
Total Credit Hours		**30**

Coursework-Only Option

(30 hours)

Students can complete 30 hours of coursework and then complete a comprehensive examination within the last two semesters of

graduation to fulfill the requirements of their degree. Examinations will be administered once per semester for all students.

Code	Title	Credit Hours
ENGR 570	Finite Elements	3
ME 601	Advanced Engr Analysis I	3
ME 602	Advanced Engr Analysis II	3
Seven Elective Courses (p.)		21
Total Credit Hours		**30**

Safety, M.S.

Program Description

No human endeavor or undertaking can be done without involving the field of safety technology. Safety professionals work in a variety of situations alongside management to ensure the health and safety of all employees. The graduate curriculum in Safety offers two areas of emphasis: Mine Safety and Occupational Safety and Health. The Master of Science degree has a 36 semester credit-hour requirement (18 CR of the 36 CR should be with courses at the 600 level).

Admission Requirements

Applicants should follow the admissions process described in this catalog or at the Graduate Admissions website at www.marshall.edu/graduate/admissions/how-to-apply-for-admission (http://www.marshall.edu/graduate/admissions/how-to-apply-for-admission/).

In addition:

Each applicant for admission must have an undergraduate degree from an accredited college or university, and must satisfy at least **one** of the following criteria:

- Score at the mean or above on the verbal GRE
- Score at the mean or above on the quantitative GRE
- Score at the mean or above on the analytical GRE
- Score at the mean or above on the Miller Analogies Test
- Have an undergraduate GPA of 2.50 or above
- Have passed the Fundamentals of Engineering exam and/or the Professional Engineering exam

In addition to the general requirements all students entering the graduate Safety program must have completed prior to admission the following courses **or** their equivalent:

- For the Area of Emphasis in Occupational Safety and Health:

Code	Title	Credit Hours
MTH 130	College Algebra	3
PHY 101	Conceptual Physics	3
PHY 101L	Conceptual Physics Lab	1
CHM 205	General, Organic, and Biochem	3

Plan of Study

Occupational Safety and Health

Area of Emphasis in M.S. in Safety

Code	Title	Credit Hours
Core Courses		
SFT 599	Dev & Mgt of Occup Safety Prog	3
SFT 610	Intro to Prof Safety & Health	3
SFT 630	Current Lit & Res in Safety	3
Required Courses		
SFT 540	Indust Fire Protection	3
SFT 554	Indust Hygiene I	3
SFT 597	Occup Sft & Health Prog Dev	3
SFT 645	Saf Engineering Equip Design	3
SFT 660	Appl Ergon and Hum Factors Eng	3
SFT 647L	Quan Indus Hygiene Lab	3
Total Credit Hours		**27**

Students may choose to complete either the project option or thesis option after consultation with their academic advisor.

Thesis Option

The thesis option involves completion of 3 CR from any 600-level, safety-related elective courses, and 6 CR of research (SFT 681 Thesis) under the direction of an advisor. The student must prepare a formal thesis proposal (including a statement of work, extensive literature search, and proposed timeline) in consultation with his or her advisor and present the proposal to the graduate thesis committee, which is formed in consultation with the advisor. The thesis proposal must be defended and approved by the thesis committee prior to the final semester of study (typically completed during the first semester of SFT 681 Thesis). Students must then summarize their research work in the form of a formal, written thesis and successfully defend it before their thesis committee in order to fulfill the requirements for the degree (typically completed during the second semester of SFT 681 Thesis). Thesis work is typically conducted over two semesters.

Project Option

The project option involves completion of 6 CR from any 600-level, safety-related elective courses and complete 3 CR of comprehensive project (SFT 679 Problem Report). The comprehensive project involves the application coursework completed as part of the degree to a practical problem. Students will work their advisors to identify an appropriate project and scope. Students must prepare a formal written report and deliver an oral presentation to a committee. Students register for SFT 679 Problem Report (3 CR) during the semester in which their project completed and presented, but preliminary work on the project may commence before that semester.

- Mine Safety Emphasis (p. 193)

Mine Safety Emphasis

Mine Safety

Area of Emphasis in M.S. in Safety

The Mine Safety graduate program is offered in cooperation with the National Mine Safety and Health Academy (MSHA), Beckley, WV.

The program is designed for underground and surface mining and is applicable to all aspects of the metallic and non-metallic mining industry. Typically students are MSHA employees and have five or more years experience in the mining industry; a technical background is required. A limited number of non-MSHA employees are permitted into the program; preference will be given to those with mining experience. The Division Chair of Applied Science Technology grants permission for admission to this area of emphasis. Only students admitted to Mine Safety will be eligible to take courses. Please contact the Division Chair for further information prior to applying for admission to this program.

Safety, Minor

Graduate students from other majors may obtain a graduate Minor in Safety by completing any three Safety Technology courses at the 500-level or 600-level for a total of nine hours of graduate work, with written permission in advance from the student's academic advisor and the Department Chair prior to the student taking the courses.

College of Health Professions

Contacts: Dr. Michael Prewitt, Dean
Website: http://www.marshall.edu/cohp (http://www.marshall.edu/cohp/)

cohp@marshall.edu

Programs

- Athletic Training (Professional), M.S. (p. 211)
- Biomechanics, M.S. (p. 213)
- Communication Disorders, M.S. (p. 213)
- Dietetics, M.S. (p. 217)
- Exercise Physiology, M.S. (p. 218)
- Family Nurse Practitioner Program, Post Master's Certificate (p. 219)
- Gerontology Social Work, Graduate Certificate (p. 219)
- Nursing Practice, D.N.P. (p. 220)
- Nursing, M.S.N. (p. 222)
- Physical Therapy, D.P.T. (p. 228)
- Physical Therapy, Dual Degree: D.P.T. and M.B.A. (p. 234)
- Public Health, Accelerated Graduate Degree (p. 235)
- Public Health, M.P.H. (p. 236)
- School Social Work, Graduate Certificate (p. 236)
- Social Work, Accelerated Graduate Degree (p. 237)
- Social Work, M.S.W. (p. 238)
- Sports Science, M.S. (p. 244)
- Strength and Conditioning, M.S. (p. 245)

Courses

Communication Disorders

CD 515 Professional Literacies SLP **3 Credit hours**
Investigation into contemporary understandings of literacy using current communication and information technologies and resources.
Grade Mode: Normal Grading Mode

CD 563 Aural Rehabilitation **3 Credit hours**
Examination of various intervention strategies appropriate for individuals with hearing impairments; techniques for assessing degree of handicap.
Grade Mode: Normal Grading Mode

CD 570 Clinical Practicum I **1-3 Credit hours**
Supervised clinical practicum in the Marshall University Speech and Hearing Center or other site with a faculty member from Marshall University Dept. of Communication Disorders. (Permission of the Instructor).
Pre-req: CD 570L (may be taken concurrently) with a minimum grade of C.
Concurrent PR: CD 570L
Grade Mode: Normal Grading Mode

CD 570L Intro Clinical Principles **1 Credit hour**
This seminar will present the basic clinical principles and procedures including but not limited to professional communication, documentation, evidence-based practice, HIPAA compliance and safety issues within the MUSHC.
Co-req: CD 570
Grade Mode: Credit/No Credit Grade Only

CD 571 Clinical Practicum II **1-3 Credit hours**
Supervised clinical practicum in the Marshall University Speech and Hearing Center or other site with a faculty member from Marshall University Dept. of Communication Disorders. (Pre-requisite CD 570; Permission of the Instructor).
Pre-req: CD 570 with a minimum grade of C and CD 571L (may be taken concurrently) with a minimum grade of C.
Concurrent PR: CD 571L
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

CD 571L Clin Prin of Assessment **1 Credit hour**
This lab/seminar corresponds with CD 571 and will present the basic clinical principles and procedures related to the evaluation process of individuals with communication and swallowing disorders.
Pre-req: CD 570L with a minimum grade of C.
Co-req: CD 571
Attributes: No Textbook Required
Grade Mode: Credit/No Credit Grade Only

CD 580 Special Topics **1-4 Credit hours**
PR: Permission of chair.
Grade Mode: Normal Grading Mode

CD 581 Special Topics **1-4 Credit hours**
PR: Permission of chair.
Grade Mode: Normal Grading Mode

CD 582 Special Topics **1-4 Credit hours**
PR: Permission of chair.
Grade Mode: Normal Grading Mode

CD 583 Special Topics **1-4 Credit hours**
PR: Permission of chair.
Grade Mode: Normal Grading Mode

CD 585 Independent Study **1-4 Credit hours**
PR: Permission of chair.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

CD 586 Independent Study **1-4 Credit hours**
PR: Permission of chair.
Grade Mode: Normal Grading Mode

CD 587 Independent Study **1-4 Credit hours**
PR: Permission of chair
Grade Mode: Normal Grading Mode

CD 588 Independent Study **1-4 Credit hours**
PR: Permission of chair
Grade Mode: Normal Grading Mode

CD 601 Intro to Graduate Studies **3 Credit hours**
An introduction to graduate sstudies, including clinical and research application; quantitative and qualitative research methodology; critical analysis of clinical instrument and research literature.
Grade Mode: Normal Grading Mode

CD 602 Counseling in CSD **2 Credit hours**
This course provides a foundation for speech-language pathologists to counsel individuals with communication and swallowing disorders. Emphasis is on therapeutic relationships, concepts of self/identity, and issues of diversity and access.
Grade Mode: Normal Grading Mode

CD 620 CD: Cleft Palate & Voice **3 Credit hours**
Intensive study of the anatomy and physiology of laryngeal and maxillofacial structures; voice production and resonance; nature and etiology of voice and resonance disorders; principles of assessment and treatment.
Grade Mode: Normal Grading Mode

CD 622 Phonological Disorders **3 Credit hours**
Advanced study of the phonological component of the linguistic system. Emphasis on phonological disorders in children; social dialects; critical analysis of literature.
Grade Mode: Normal Grading Mode

CD 623 Fluency Disorders **3 Credit hours**
Detailed evaluation of theories of fluency disorders and relevant therapies; critical analyses of research literature.
Grade Mode: Normal Grading Mode

CD 624 Foundations Neuro Comm Dis **3 Credit hours**
Study of the neurological bases of speech; etiologies and symptoms of dysarthrias and apraxias; principles of assessment and treatment.
Grade Mode: Normal Grading Mode

CD 625 Acquired Aphasia **3 Credit hours**
Advanced study of the acquired aphasias and commonly co-occuring motor speech disorders; critical analysis of research literature. (PR: Permission of instructor)
Grade Mode: Normal Grading Mode

CD 628 Child Lang Dis: Inf/Presch **3 Credit hours**
Advanced study of the development of language; language sampling procedures, analysis and application.
Grade Mode: Normal Grading Mode

CD 629 Chld Lang Dis: Sch/Adoles **3 Credit hours**
Advanced study of current topics in language disorders in children; critical analysis of research literature.
Grade Mode: Normal Grading Mode

CD 630 Cognitive Comm Disorders **3 Credit hours**
Intensive study of the nature and etiology of communication disorders associated with traumatic brain injury, right hemisphere lesions, dementia, and other neuropathologies; diagnosis and treatment; critical analysis of research literature.[PR: Permission of instructor]
Grade Mode: Normal Grading Mode

CD 650 Special Topics **1-4 Credit hours**
Program of study not normally covered in other courses. Topics vary from semester to semester.
Grade Mode: Credit/No Credit Grade Only

CD 651 Special Topics **1-4 Credit hours**
Program of study not normally covered in other courses. Topics vary from semester to semester.
Grade Mode: Credit/No Credit Grade Only

CD 652 Special Topics **1-4 Credit hours**
Program of study not normally covered in other courses. Topics vary from semester to semester.
Grade Mode: Credit/No Credit Grade Only

CD 653 Special Topics **1-4 Credit hours**
Program of study not normally covered in other courses. Topics vary from semester to semester.
Grade Mode: Credit/No Credit Grade Only

CD 660 Augment Alternative Comm **2 Credit hours**
Comprehensive overview of theoretical and practical issues related to use of augmentative and alternative communication (AAC) systems; assessment and intervention strategies for children and adults who use AAC. (permission by instructor)
Grade Mode: Normal Grading Mode

CD 670 Advanced Clinical Practicum I **1-6 Credit hours**
Supervised clinical practicum in the Marshall University Speech and Hearing Center and in affiliated educational, rehabilitation and medical settings with corresponding professional responsibilities. (PR: CD 571 or permission of instructor)
Pre-req: CD 570 with a minimum grade of C.
Co-req: CD 670L
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

CD 670L Clin ISS In Health Care **1 Credit hour**
This seminar will present principles related to clinical services in speech-language pathology in a variety of health care settings.
Pre-req: CD 571L with a minimum grade of C.
Co-req: CD 670
Attributes: No Textbook Required
Grade Mode: Credit/No Credit Grade Only

CD 674 Clin Pract in the Schools **1 Credit hour**
This course is a supervised clinical practicum with school-aged children; fulfills student teaching requirements for West Virginia Certification as a Speech Language Pathologist. (PR: Permission of instructor)
Pre-req: CD 571 with a minimum grade of C.
Co-req: CD 674L
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

CD 674L Consideration in Public School **1 Credit hour**
This lab/seminar will persent special considerations related to providing services in speech-language pathology in the public school setting.
Pre-req: CD 571L with a minimum grade of C.
Co-req: CD 674
Attributes: No Textbook Required
Grade Mode: Credit/No Credit Grade Only

CD 675 Advanced Clin Pract II **1 Credit hour**
This is the graduate clinical capstone experience which includes a supervised clinical practicum in the MUSHC and affiliated education, rehabilitation and medical settings. (PR: CD 670: Advanced Clinical Practicum I)
Pre-req: CD 674.
Co-req: CD 675L
Grade Mode: Normal Grading Mode

CD 675L Prof Considerations **1 Credit hour**
This lab corresponds with CD 675, the graduate clinical capstone and will provide a forum for students to solidify knowledge and skills for professional practice. (co-requistie to CD 675: Advanced Clinical Practicum II)
Pre-req: CD 674.
Co-req: CD 675
Grade Mode: Normal Grading Mode

CD 681 Thesis **1-6 Credit hours**
PR: Permission of chair.
Attributes: Thesis
Grade Mode: Normal Grading Mode

CD 685 Independent Study **1-4 Credit hours**
PR: Permission of chair.
Grade Mode: Normal Grading Mode

CD 686 Independent Study **1-4 Credit hours**
PR: Permission of chair.
Grade Mode: Normal Grading Mode

CD 687 Independent Study **1-4 Credit hours**
PR: Permission of chair.
Grade Mode: Normal Grading Mode

CD 688 Independent Study **1-4 Credit hours**
PR: Permission of chair.
Grade Mode: Normal Grading Mode

CD 690 Seminar **1-4 Credit hours**
Topics in Communication Disorders not covered in other courses; topics vary from semester to semester. (PR: Permission of Chair)
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

CD 691 Dysphagia & Assoc Motor Sp Dis **3 Credit hours**
The study of normal and disordered swallowing in adults including assessment, treatment and differential diagnosis of dysphagia and associated motor speech disorders; critical analysis of the literature. (PR: CD 624 or permission of the instructor)
Grade Mode: Normal Grading Mode

CD 692 Ped Feeding & Swallowing Dis **2 Credit hours**
Discussion of prevention, assessment, and treatment of feeding and swallowing disorders from birth to school-age children including medical, nutritional, feeding skill, and/or psychosocial dysfunction. (PR: CD 691)
Grade Mode: Normal Grading Mode

CD 693 Seminar **1-4 Credit hours**
Topics in Communication Disorders not covered in other courses; topics vary from semester to semester. (PR: Permission of Chair)
Grade Mode: Normal Grading Mode

Dietetics

DTS 508 Nutrition Cardiac Disease **3 Credit hours**
Role of nutrition in cardiac rehabilitation. Teaching methods in working with families to improve patient compliance.
Grade Mode: Normal Grading Mode

DTS 580 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

DTS 581 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

DTS 585 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

DTS 586 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

DTS 670 Adv Med Nutrition Therapy I **3 Credit hours**
Pathophysiology, medical nutrition therapy, and current research of common and unique disease states and conditions.
Grade Mode: Normal Grading Mode

DTS 671 Sports Nutrition **3 Credit hours**
An in-depth investigation of sports nutrition, with emphasis on nutrient functions and their roles in physical activity as well as nutrition counseling strategies for athletes.
Grade Mode: Normal Grading Mode

DTS 672 Diabetes & Nutrition Mngt **3 Credit hours**
In-depth investigation of diabetes mellitus, including disease state, types, diagnosis and treatment options, medications to treat, exercise, complications, and medical nutrition therapy and counseling strategies.
Grade Mode: Normal Grading Mode

DTS 673 Administrative Dietetics **3 Credit hours**
Overview of management/administrative concepts for directing resources within a variety of food and nutritional service/ programs. Planning, implementing, and evaluation techniques to measure organizational performance. Applied research in dietetics. (PR: Dietetic Internship Students or permission)
Grade Mode: Normal Grading Mode

DTS 674 Food Allergies & Intoler **3 Credit hours**
Advanced study of food allergies and intolerances and the roles of nutrition in food allergy prevention and lifestyle management.
Grade Mode: Normal Grading Mode

DTS 675 Dietetic Internship I **3 Credit hours**
Supervised practice experience focusing on the nutritional screening assessment and education of individuals and groups across the lifespan in a variety of community and long-term settings.
Grade Mode: Normal Grading Mode

DTS 676 Dietetic Internship II **3 Credit hours**
Supervised practice experience focusing on the procurement, production, distribution, and service within school and hospital based food service management systems.
Pre-req: DTS 675 with a minimum grade of C.
Grade Mode: Normal Grading Mode

DTS 677 Dietetic Internship III **3 Credit hours**
Supervised practice experience focusing on skills required to become a dietitian in a clinical setting. Nutritional screening assessment and education of individuals with complex medical conditions will be emphasized.
Pre-req: DTS 676.
Grade Mode: Normal Grading Mode

DTS 679 Adv Med Nutrition Therapy II **3 Credit hours**
The continued study of pathophysiology, medical nutrition therapy, and current research of common and unique disease states and conditions.
Pre-req: DTS 670 with a minimum grade of C.
Grade Mode: Normal Grading Mode

DTS 681 Thesis **1-6 Credit hours**
Attributes: Thesis
Grade Mode: Normal Grading Mode

DTS 690 Sem DTS Research Comm **1-4 Credit hours**
Extensive reading and reports from current literature in selected areas of dietetics.
Grade Mode: Normal Grading Mode

Exercise Science and Sport

ESS 515 PE in Pre Elem Mid School **3 Credit hours**
Grade Mode: Normal Grading Mode

ESS 517 Teaching College Phys Ed **3 Credit hours**
Grade Mode: Normal Grading Mode

ESS 542 Strength and Cond **3 Credit hours**
Delivery of strength and conditioning principles related to musculoskeletal movement and the utilization of energy systems for the development and administration of sport-based exercise programs.
Pre-req: ESS 543 (may be taken concurrently) with a minimum grade of D.
Concurrent PR: ESS 543
Grade Mode: Normal Grading Mode

ESS 543 Strength and Cond Lab **1 Credit hour**
Direct application of strength and conditioning principles in the development and administration of sport-based exercise programs. Emphasis will be on the training and demonstration of proper communication and technique regarding the components of flexibility, resistance training, power-lifting, Olympic weightlifting, and speed and agility.
Pre-req: ESS 542 (may be taken concurrently) with a minimum grade of D.
Concurrent PR: ESS 542
Grade Mode: Normal Grading Mode

ESS 560 Professional Development **1-4 Credit hours**
Grade Mode: Credit/No Credit Grade Only

ESS 561 Professional Development **1-4 Credit hours**
Grade Mode: Credit/No Credit Grade Only

ESS 562 Professional Development **1-4 Credit hours**
Grade Mode: Credit/No Credit Grade Only

ESS 563 Professional Development **1-4 Credit hours**
Grade Mode: Credit/No Credit Grade Only

ESS 564 Professional Development **1-4 Credit hours**
Grade Mode: Credit/No Credit Grade Only

ESS 569 Curriculum Development PE **3 Credit hours**
Grade Mode: Normal Grading Mode

ESS 576 Theo Prac Aspect Coaching **3 Credit hours**
An in depth study of the principles and problems of coaching.
Grade Mode: Normal Grading Mode

ESS 578 Exercise Metabolism **3 Credit hours**
Addresses the principles of sport nutrition and its effects on physiological systems, body composition, and human exercise performance.
Grade Mode: Normal Grading Mode

ESS 580 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ESS 581 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ESS 582 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ESS 583 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ESS 585 Independent Study **1-4 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

ESS 586 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ESS 587 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ESS 588 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ESS 591 Worskhop in Physical Ed **1-3 Credit hours**
Grade Mode: Normal Grading Mode

ESS 592 Workshop in Physical Ed **1-3 Credit hours**
Grade Mode: Normal Grading Mode

ESS 593 Workshop in Physical Ed **1-3 Credit hours**
Grade Mode: Normal Grading Mode

ESS 594 Workshop in Physical Ed **1-3 Credit hours**
Grade Mode: Normal Grading Mode

ESS 600 Adv. Readings in Sports Ethics **3 Credit hours**
A critical analysis of and engagement with leading ethical thinking as applied to sport.
Grade Mode: Normal Grading Mode

ESS 601 Adv Exercise Testing **3 Credit hours**
Exercise testing techniques presented to determine the biological responses to exercise stress and to investigate the physiological limitations to human performance as it relates to disease and/or sport performance.
Grade Mode: Normal Grading Mode

ESS 608 Motor Learning & Perform **3 Credit hours**
Grade Mode: Normal Grading Mode

ESS 610 Phys Growth & Motor Devel **3 Credit hours**
Grade Mode: Normal Grading Mode

ESS 621 Adv Exercise Physiology I **3 Credit hours**
Topics would include bioenergetics, integration of metabolism, metabolic response to exercise, neuroendocrine control of metabolism during exercise, cardiovascular control and adaptation during exercise and respiratory control and adaptation during exercise.
Grade Mode: Normal Grading Mode

ESS 622 PE for Atypical Individ **3 Credit hours**
Grade Mode: Normal Grading Mode

ESS 623 Adv Ex Phys II **3 Credit hours**
Addresses neuromuscular plasticity and physiological adaptations to environmental stimuli during exercise.
Grade Mode: Normal Grading Mode

ESS 626 Hist & Phil PE & Sports **3 Credit hours**
An investigation of historical events, political and social climates, and personalities as well as philosophies which have influenced physical education and sport from early civilizations to the present.
Grade Mode: Normal Grading Mode

ESS 631 Perform Tech & Analysis **3 Credit hours**
Analysis of lead-up, intermediate and advanced techniques of a selected team, individual or dual sports. Emphasis given to mechanics of performance psychological stress components, psychological factors, strategies and teaching/coaching methodology.
Grade Mode: Normal Grading Mode

ESS 632 Perform Tech & Analysis **3 Credit hours**
Analysis of lead-up, intermediate and advanced techniques of a selected team, individual or dual sports. Emphasis given to mechanics of performance psychological stress components, psychological factors, strategies and teaching/coaching methodology.
Grade Mode: Normal Grading Mode

ESS 633 Perform Tech & Analysis **3 Credit hours**
Analysis of lead-up, intermediate and advanced techniques of a selected team, individual or dual sports. Emphasis given to mechanics of performance psychological stress components, psychological factors, strategies and teaching/coaching methodology.
Grade Mode: Normal Grading Mode

ESS 634 Perform Tech & Analysis **3 Credit hours**
Analysis of lead-up, intermediate and advanced techniques of a selected team, individual or dual sports. Emphasis given to mechanics of performance psychological stress components, psychological factors, strategies and teaching/coaching methodology.
Grade Mode: Normal Grading Mode

ESS 636 Structural Kinesiology **3 Credit hours**
Instruction and laboratory experiences involving musculoskeletal anatomy and biomechanics as applied to human movement.
Grade Mode: Normal Grading Mode

ESS 641 Theor/Factor Ath Perform **3 Credit hours**
Grade Mode: Normal Grading Mode

ESS 642 Devise Train & Cond Prog **3 Credit hours**
Application of neuromuscular and physiological knowledge to the examination of the administration and content of existing exercise programs as well as the development of new programs.
Grade Mode: Normal Grading Mode

ESS 644 Cardio Exer Physiol **3 Credit hours**
Detailed study of the anatomy and physiology of the cardiovascular system and its response to acute and chronic exercise.
Pre-req: ESS 621.
Grade Mode: Normal Grading Mode

ESS 645 Respir Exer Physiol **3 Credit hours**
Detailed study of the anatomy and physiology of the respiratory system and its response to acute and chronic exercise.
Pre-req: ESS 621 and ESS 623 and ESS 670.
Grade Mode: Normal Grading Mode

ESS 646 Neuro Exer Physiol/Plas **3 Credit hours**
This course is a detailed study of the structure and function of the neuromuscular system along with the etiology and functional consequences of numerous neuromuscular diseases.
Pre-req: ESS 621 and ESS 623 and ESS 670.
Grade Mode: Normal Grading Mode

ESS 650 Drug and Sport **3 Credit hours**
Grade Mode: Normal Grading Mode

ESS 651 Mech Analysis Motor Skill **3 Credit hours**
Analysis of motor skills through the application of the principles of physics.
Grade Mode: Normal Grading Mode

ESS 654 Contemp & Compar Phys Ed **3 Credit hours**
A study of objectives, methods, personnel, facilities, and program uniqueness of the physical education of selected nations and world regions. National sport programs, international sport programs and competition, and international professional organizations are considered.
Grade Mode: Normal Grading Mode

ESS 660 Internship **3-6 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

ESS 665 Adv Test & Measure Phy Ed **3 Credit hours**
Grade Mode: Normal Grading Mode

ESS 670 Research Meth in Kinesiology **3 Credit hours**
An examination of experimental research design, laboratory methods, construction of instruments, execution of research, and presentation of research papers with an emphasis on science.
Grade Mode: Normal Grading Mode

ESS 681 Thesis **1-6 Credit hours**
Attributes: No Textbook Required, Thesis
Grade Mode: Normal Grading Mode

ESS 682 Prev & Rehab Physiology **3 Credit hours**
An examination of experimental research design, laboratory methods, construction of instruments, execution of research, and presentation of research papers with an emphasis on science.
Grade Mode: Normal Grading Mode

ESS 683 Cardiovascular Assessment **3 Credit hours**
Considers cardiovascular assessment strategies, including EKG interpretation, related medical profile variables, patient/client/athlete screening and risk stratification.
Grade Mode: Normal Grading Mode

ESS 685 Admin Prev Rehab Med Prog **3 Credit hours**
Grade Mode: Normal Grading Mode

ESS 686 Behav Asp Well Dis Rehab **3 Credit hours**
Grade Mode: Normal Grading Mode

ESS 687 Cardiac Life Support **3 Credit hours**
Grade Mode: Normal Grading Mode

ESS 692 Strength & Condit Clin Fld Exp **3 Credit hours**
The application and development of Strength and Conditioning Specialist skills in real-world settings.
Pre-req: ESS 621 with a minimum grade of C and ESS 642 with a minimum grade of C and DTS 671 with a minimum grade of C and HS 505 with a minimum grade of C and HS 566 with a minimum grade of C and ESS 601 (may be taken concurrently).
Concurrent PR: ESS 601
Grade Mode: Normal Grading Mode

Health Professions

HP 605 The Role of EHR and PHR **3 Credit hours**
Students will be introduced to the main concepts and software applications of Electronic Health Records and Personal Health Records.
Grade Mode: Normal Grading Mode

HP 610 Analytics for Healthcare **3 Credit hours**
Data analytic tools useful in healthcare data analysis and healthcare administrative decision-making including health data analysis, visualization, and reporting techniques.
Grade Mode: Normal Grading Mode

HP 615 Health Quality and Safety **3 Credit hours**
Provide an experience that will prepare students to work effectively in professional positions, and to bridge the learning gained in course work with the world of practice.
Grade Mode: Normal Grading Mode

HP 620 Legal Health & Informat **3 Credit hours**
The course will introduce students to IT governance, health information ethic and legal requirements to improve health care processes, customer response and business competitiveness.
Grade Mode: Normal Grading Mode

HP 630 Research Methods and Data **3 Credit hours**
The course will introduce a compendium of methods for evaluation of IT-based systems and solutions within health care. Students will acquire knowledge in research process.
Grade Mode: Normal Grading Mode

HP 650 Health Infor Practicum **3 Credit hours**
Provide an experience to prepare students to work effectively in professional positions, and bridge the learning gained in course work with the world of practice.
Pre-req: HP 605 and HCA 656.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

HP 686 Independent Study **1-4 Credit hours**
Independent Study relates to projects that do not fall specifically within an individual department's curriculum.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

HP 687 Independent Study **1-4 Credit hours**
Independent Study relates to projects that do not fall specifically within an individual department's curriculum.
Grade Mode: Normal Grading Mode

HP 688 Independent Study **1-4 Credit hours**
Independent Study relates to projects that do not fall specifically within an individual department's curriculum.
Grade Mode: Normal Grading Mode

Health Science

HS 505 Sport Psychology **3 Credit hours**
An examination of theory, research, and application of psychological principles related to sport and exercise.
Grade Mode: Normal Grading Mode

HS 510 Org and Admin in Kinesiology **3 Credit hours**
This course investigates current trends in administration and organization in Kinesiology. Areas considered include but are not limited to policy planning, leadership, ethics, management, and current organizational trends in Kinesiology.
Grade Mode: Normal Grading Mode

HS 512 Found Clinical Skills in AT **3 Credit hours**
Taping, bracing, spine boarding, airway and oxygen administration, and other advanced emergency and practical care techniques used in athletic training. (PR: program admissions; CR: HS 522)
Grade Mode: Normal Grading Mode

HS 515 Ath Trng Clinical Exp I **1-3 Credit hours**
To develop evaluation and treatment skills of the student under the direction of a BOC-certified Athletic Trainer. Requires completion of clinical hours and assigned competencies.
Grade Mode: Normal Grading Mode

HS 523 Ortho Assess Upper Extremity **4 Credit hours**
Orthopedic evaluation techniques of the neck and upper extremity for the athletic trainer.
Grade Mode: Normal Grading Mode

HS 524 Ortho Assess Lower Extremity **4 Credit hours**
Orthopedic evaluation techniques of the lower extremity for the athletic trainer.
Grade Mode: Normal Grading Mode

HS 525 Ath Trng Clinical Exp II **3 Credit hours**
To continue developing athletic training evaluation and treatment skills under the direction of a BOC-certified Athletic trainer. (PR: grade of B or higher in HS 515 and 75 clinical hours)
Pre-req: HS 515.
Grade Mode: Normal Grading Mode

HS 535 Biomech Programs Applications **3 Credit hours**
Students will develop computer programming skills by designing and writing code to process and analyze the biomechanical data they collect. Students will transfer the functions they write to various applications.
Grade Mode: Normal Grading Mode

HS 548 Therapeutic Interventions I **4 Credit hours**
Students in this course will be instructed in therapeutic modalities used in the initial stages of injury, and therapeutic exercise rehabilitation of the lower extremity and lumbar spine. Special emphasis is given to the decision making processes involved with modality and exercise selection and parameter adjustment based upon patient pathologic responses and desired patient outcomes.
Grade Mode: Normal Grading Mode

HS 549 Therapeutic Interventions II **4 Credit hours**
Students in this course will be instructed in electrical stimulation modalities and therapeutic exercise rehabilitation of the upper extremity and cervical spine. Post surgical rehabilitation for both upper and lower extremities and the spine will be incorporated. Special emphasis is given to the decision making processes involved with modality and exercise selection and parameter adjustment based upon patient pathologic responses and desired patient outcomes.
Grade Mode: Normal Grading Mode

HS 560 Professional Development **1-4 Credit hours**
Courses and activities designed to meet the specific inservice needs of publlic school personnel. Credit in thes courses may be used for certificate renewal and salary upgrading if approved but not for degrees.
Grade Mode: Normal Grading Mode

HS 561 Professional Development **1-4 Credit hours**
Courses and activities designed to meet the specific inservice needs of public school personnel. Credit in these courses may be used for certificate renewal and salary upgrading if approved but not for degrees.
Grade Mode: Normal Grading Mode

HS 562 Professional Development **1-4 Credit hours**
Courses and activities designed to meet the specific inservice needs of public school personnel. Credit in these courses may be used for certificate renewal and salary upgrading if approved but not for degrees.
Grade Mode: Normal Grading Mode

HS 563 Professional Development **1-4 Credit hours**
Courses and activities designed to meet the specific inservice needs of public school personnel. Credit in these courses may be used for certificate renewal and salary upgrading if approved but not for degrees.
Grade Mode: Normal Grading Mode

HS 564 Professional Development **1-4 Credit hours**
Courses and activities designed to meet the specific inservice needs of public school personnel. Credit in these courses may be used for certificate renewal and salary upgrading if approved but not for degrees.
Grade Mode: Normal Grading Mode

HS 565 Pathomechanics **3 Credit hours**
An investigation into normal and abnormal human movement patterns in sport, the workplace, and in activities of daily living.
Grade Mode: Normal Grading Mode

HS 566 Biomechanical Analysis **3 Credit hours**
The purpose of the course is to provide an advanced study of biomechanical concepts and their application to human movement and sport skills.
Grade Mode: Normal Grading Mode

HS 576 Seminar in Sports Science **3 Credit hours**
This course examines concepts related to acquiring, analyzing, and interpreting data relevant to human performance outcomes within sports, exercise, tactical operations, and medical return to play.
Grade Mode: Normal Grading Mode

HS 578 Biomech Research Pract **1-6 Credit hours**
This course offers "hands-on" work within the biomechanics lab. The student will assist with current research. This experience that allows students to gain practical experience within a lab setting.
Grade Mode: Normal Grading Mode

HS 580 Special Topics **1-4 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

HS 581 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

HS 582 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

HS 583 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

HS 584 Special Topics in Health **1-4 Credit hours**
Grade Mode: Normal Grading Mode

HS 585 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

HS 586 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

HS 587 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

HS 588 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

HS 589 Independent Study **3 Credit hours**
Grade Mode: Normal Grading Mode

HS 591 Workshop in Phys Ed **1-3 Credit hours**
Grade Mode: Normal Grading Mode

HS 592 Workshop in Phys Ed **1-3 Credit hours**
Grade Mode: Normal Grading Mode

HS 595 Trends in Biomechanics 2 **3 Credit hours**
The purpose of this course is to expose the student to the research process as it pertains to the field of biomechanics. This course is intended to continue the process started in HS 575.
Pre-req: HS 575.
Grade Mode: Normal Grading Mode

HS 609 Org & Admin Athletic Training **3 Credit hours**
This course will investigate current trends in administration and organization in the field of athletic training. Focus will be placed on current state/federal practice laws and the financial management of running an athletic training clinic.
Grade Mode: Normal Grading Mode

HS 610 Adv Biomechanics **3 Credit hours**
An advance investigation into Newtonian mechanics and their application in their uses human movement analysis.
Pre-req: HS 566 with a minimum grade of C.
Grade Mode: Normal Grading Mode

HS 615 Kinematic Analysis App Biomech **3 Credit hours**
This course entails a study of kinematics as it relates to the analysis of human movement involving the mechanical and anatomical characteristics of physical skills through the utilization of research equipment.
Grade Mode: Normal Grading Mode

HS 620 Subst Abuse & the Athlete **3 Credit hours**
Grade Mode: Normal Grading Mode

HS 623 Adv Medical Aspect Sports **3 Credit hours**
Emphasis on the development of skills in recognition of symptoms of illness, injuries and proper procedures of medical care.
Grade Mode: Normal Grading Mode

HS 625 Evdnce Base Prac Ther Elec Agt **3 Credit hours**
An in-depth understanding of therapeutic modalities with an emphasis on evidence based literature.
Grade Mode: Normal Grading Mode

HS 630 Seminar Athl Training **3 Credit hours**
A course designed to use scientific literature to enhance students preparation and knowledge of athletic training.
Grade Mode: Normal Grading Mode

HS 634 Ath Trng Externship **3 Credit hours**
Approved externship supervised by a clinical preceptor. Requires 225 clinical hours that includes an immersion experience. (PR: HS 645, program permission)
Pre-req: HS 645 with a minimum grade of C.
Grade Mode: Normal Grading Mode

HS 635 Kinetics in Biomech **3 Credit hours**
Students will gain knowledge regarding biomechanics technologies to measure kinetics, acquire the skills to investigate forces and the human body, and learn how to process, analyze, and interpret kinetic data.
Grade Mode: Normal Grading Mode

HS 639 Exam of Gen Med Conditions **3 Credit hours**
A study of common general medical conditions and illnesses of physically active individuals and the proper methods of evaluating these complaints.
Grade Mode: Normal Grading Mode

HS 640 Health Eval for the Ath Trn **3 Credit hours**
An indepth study of common problems and complaints of athletes and the proper method of evaluating those complaints.
Grade Mode: Normal Grading Mode

HS 645 Ath Trng Clinical Exp III **3 Credit hours**
To continue developing athletic training evaluation and treatment skills under the direction of a BOC-certified athletic trainer and/or other qualified allied health professionals. (PR: grade of B or higher in HS 525 and 225 clinical hours)
Pre-req: HS 525 with a minimum grade of C.
Grade Mode: Normal Grading Mode

HS 646 Athletic Training I **3 Credit hours**
Training in the diagnosis of injuries in athletics. The student will be expected to participate in diagnosis techniques under the supervision of a trainer.
Grade Mode: Normal Grading Mode

HS 647 Athletic Training II **3 Credit hours**
Professional aspects of trainer-doctor and doctor-athlete relations will be taught and exploration of how to professionally handle injuries and cooperate with physicians.
Grade Mode: Normal Grading Mode

HS 650 Human Gait **3 Credit hours**
An investigation into normal and abnormal human gait patterns in activities of daily living.
Pre-req: ESS 564 or HS 564.
Grade Mode: Normal Grading Mode

HS 655 Ath Trng Clinical Exp IV **3 Credit hours**
Capstone clinical experience supervised by an MD, PT, PA, or ATC at an approved site. Requires 150 clinical hours. (PR: grade of B or higher in HS 645 and 225 clinical hours)
Pre-req: HS 645.
Grade Mode: Normal Grading Mode

HS 657 Adv Trn/Certs **1-3 Credit hours**
This course allows the student to participate in advanced training and certification courses such as the Functional Movement Screening, Performance Enhancement Specialist, and others that may be offered each year.
Grade Mode: Normal Grading Mode

HS 660 Internship **3-6 Credit hours**
Practical experince in a clinical setting.
Grade Mode: Normal Grading Mode

HS 665 Sports Science Practicum **3-6 Credit hours**
This course will provide supervised practical experience in the area of sports science. Students will be provided with the opportunity to apply their knowledge of sports science, performance, and testing/monitoring in an athletic setting.
Grade Mode: Normal Grading Mode

HS 679 Trends in Athletic Training **3 Credit hours**
To investigate current trends with regard to evidence based practice, current practice position statements, and current research methods being utilized in athletic training.
Grade Mode: Normal Grading Mode

HS 680 Graduate Project in AT **3 Credit hours**
This course involves supervised development of a one-semester scholarly, entrepreneurial or administrative project that synthesizes the student's educational and clinical experiences obtained while matriculating through the PMSAT program.
Pre-req: HS 655 with a minimum grade of C.
Co-req: HS 630, HS 634
Grade Mode: Normal Grading Mode

HS 681 Thesis **1-6 Credit hours**
Attributes: Thesis
Grade Mode: Normal Grading Mode

Nursing

NUR 580 Special Topics **1-4 Credit hours**
Program of study not normally covered in other courses. Topics vary from semester to semester.
Grade Mode: Normal Grading Mode

NUR 581 Special Topics **1-4 Credit hours**
Program of study not normally covered in other courses. Topics vary from semester to semester.
Grade Mode: Normal Grading Mode

NUR 582 Special Topics **1-4 Credit hours**
Program of study not normally covered in other courses. Topics vary from semester to semester.
Grade Mode: Normal Grading Mode

NUR 583 Special Topics **1-4 Credit hours**
Program of study not normally covered in other courses. Topics vary from semester to semester.
Grade Mode: Normal Grading Mode

NUR 584 Special Topics **1-4 Credit hours**
Program of study not normally covered in other courses. Topics vary from semester to semester.
Grade Mode: Normal Grading Mode

NUR 585 Independent Study **1-4 Credit hours**
Courses taught by tutorials; directed independent readings or research; problem reports, and other activities designed to fill needs of individual students.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

NUR 586 Independent Study **1-4 Credit hours**
Courses taught by tutorials; directed independent readings or research; problem reports, and other activities designed to fill needs of individual students.
Grade Mode: Normal Grading Mode

NUR 587 Independent Study **1-4 Credit hours**
Courses taught by tutorials; directed independent readings or research; problem reports, and other activities designed to fill needs of individual students.
Grade Mode: Normal Grading Mode

NUR 588 Independent Study **1-4 Credit hours**
Courses taught by tutorials; directed independent readings or research; problem reports, and other activities designed to fill needs of individual students.
Grade Mode: Normal Grading Mode

NUR 602 Theoretical Found in NUR **3 Credit hours**
Provides students with opportunity to relate a philosophical and theoretical base to concepts and processes inherent in nursing. Emphasis is on analysis of nursing theories and their relationship and application to research and practice.
Grade Mode: Normal Grading Mode

NUR 604 Leadership in Nursing **3 Credit hours**
Explores the theoretical basis for effective leadership in nursing. Emphasis is placed on analysis of leadership, characteristics and behaviors of leaders, and the role of the nurse leader.
Grade Mode: Normal Grading Mode

NUR 606 Advanced Nursing Research **3 Credit hours**
Provides the opportunity to develop a research approach to nursing situations. Focus is upon the development of a research proposal. (PR or CR: NUR 602)
Pre-req: NUR 602 with a minimum grade of C.
Grade Mode: Normal Grading Mode

NUR 608 Issues in Health Care **3 Credit hours**
Explores and evaluates concerns germane to contemporary nursing. Focus is upon the role of nursing in addressing health issues affected by social, economical, political and technological forces.
Grade Mode: Normal Grading Mode

NUR 610 Nur. Patho, Assess, and Pharm **3 Credit hours**
This course in advanced physiology/pathophysiology, advanced physical assessment, and pharmacology r/t prevalent disease processes across the life span. Course integrates core concepts at advanced level for nursing clinical practice.
Grade Mode: Normal Grading Mode

NUR 616 Curr Dev in Nursing **3 Credit hours**
Introduces the various components in the curriculum development process. Emphasis is on philosophy, objectives, curriculum designs and program evaluation. Factors influencing curriculum development implementing evaluation and nursing curriculum patterns are examined. (NUR 602)
Grade Mode: Normal Grading Mode

NUR 618 Teaching in Nursing **3 Credit hours**
Investigates the responsibilities of the educator in contemporary nursing. Emphasis is upon the instructional process. Practicum allows student to practice the role of the teacher in a variety of educational experiences. (PR: NUR 616)
Grade Mode: Normal Grading Mode

NUR 619 Practicum: Teach Nursing **6 Credit hours**
Guided experience in didactic teaching of nursing clinical teaching,supervision and evaluation of students. PRE: NUR 618
Pre-req: NUR 618 (may be taken concurrently) with a minimum grade of C and NUR 606 with a minimum grade of C.
Concurrent PR: NUR 618
Grade Mode: Normal Grading Mode

NUR 620 Adv Pathophysiology I **2 Credit hours**
Advanced knowledge of body systems altered by disease and/or injury. The body systems or diseases studied will include: cell, cardiovascular, pulmonary, digestive, musculoskeletal, neurologic and reproductive across the lifespan.
Grade Mode: Normal Grading Mode

NUR 621 Adv Pathophysiology II **2 Credit hours**
Advanced knowledge of body systems altered by disease and/or injury including: hematologic, genes, immunity, cancer, endocrine, renal, urologic, and integumentary across the lifespan.
Pre-req: NUR 620 with a minimum grade of C.
Grade Mode: Normal Grading Mode

NUR 622 Advanced Physical Assessment **5 Credit hours**
Introduction to knowledge and skills essential for comprehensive health assessments, analysis of data, formulation of diagnoses, development of the therapeutic plans and implementation of health promotion and maintenance activities. Practicum included. (PR or CR: NUR 602)
Grade Mode: Normal Grading Mode

NUR 623 Adv Pathophysiology **3 Credit hours**
This course provides advanced knowledge of body systems altered by disease and/or injury across the life span. In addition, studying the pathophysiology of body systems will include exploring culture and ethnicity.
Grade Mode: Normal Grading Mode

NUR 624 Adv Family Nursing Practice I **7 Credit hours**
Provides advanced knowledge of common and acute self-limiting health problems of individuals and families of various age groups. Includes pathology and therapeutic modalities related to specific health problems. (240 clinical hrs. minimum) Practicum included. (PR: NUR 622 CR: NUR 606)
Pre-req: NUR 622 with a minimum grade of C.
Grade Mode: Normal Grading Mode

NUR 625 Advanced Physical Assessment **3 Credit hours**
Introduction to knowledge and skills essential for comprehensive health assessments, analysis of data, diagnoses, therapeutic plans, and health promotion and maintenance activities.
Grade Mode: Normal Grading Mode

NUR 626 Adv Family Nursing III **5 Credit hours**
Provides advanced knowledge of chronic illness and the long-term management of health care problems. Includes pathology and therapeutic modalities related to management of chronic health problems. (180 clinical hrs. minimum) Practicum included. (PR: NUR 624)
Pre-req: NUR 624.
Grade Mode: Normal Grading Mode

NUR 630 Advanced Pharmacology **4 Credit hours**
The course will prepare students to apply the clinical science of medications, recognize beneficial and adverse effects, and create an individualized pharmacotherapeutic regimen according to clinical guidelines or clinical trials.
Grade Mode: Normal Grading Mode

NUR 642 Org Dynamics in Nursing **3 Credit hours**
Focus is upon the organizational dynamics as they apply to the nurse manager in health care delivery systems.
Pre-req: NUR 604 (may be taken concurrently).
Concurrent PR: NUR 604
Grade Mode: Normal Grading Mode

NUR 644 Financial Stra In Nur Adm **3 Credit hours**
Examines the financial management role of the nurse administrator in relation to economic, political, and societal trends.
Pre-req: NUR 606 (may be taken concurrently) with a minimum grade of C.
Concurrent PR: NUR 606
Grade Mode: Normal Grading Mode

NUR 646 Nur Manage Health Care I **6 Credit hours**
Focuses on the application of theories and principles related to nursing management. Practicum included. (NUR 642, NUR 644).
Pre-req: NUR 606 and NUR 642 and NUR 644.
Grade Mode: Normal Grading Mode

NUR 648 Nur Manage Health Care II **6 Credit hours**
Practicum focuses upon the application of the role components of the nurse manager in selected health care settings. (PR: 646).
Pre-req: NUR 646 with a minimum grade of C.
Grade Mode: Normal Grading Mode

NUR 663 Advanced Pharmacology I **2 Credit hours**
Focus on the science of drugs and the application to patient care across the lifespan. Principles of pharmacology covered are: infectious diseases, fluids and electrolytes, peripheral nervous and cardiovascular systems.
Grade Mode: Normal Grading Mode

NUR 664 Advanced Pharmacology II **2 Credit hours**
Focus is on the science of drugs and application to patient care across the lifespan. Drugs affecting the blood, respiratory, gastrointestinal, central nervous, endocrine system, anti-inflammatory, antiallergic and immunologic drugs.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

NUR 681 Thesis **1-6 Credit hours**
Individual research in a selected area of nursing under direction of a faculty member.
Pre-req: NUR 606.
Attributes: Thesis
Grade Mode: Normal Grading Mode

NUR 695 Internship: Adv Family Nur **7 Credit hours**
The focus is upon the role of the family nurse practitioner using the case management approach in a supervised contractual work study arrangement with a health care agency. (360 clinical hrs. minimum) (PR: NUR 626)
Pre-req: NUR 626 with a minimum grade of C.
Grade Mode: Normal Grading Mode

NUR 702 Hlth Prom and Pop Hlth **3 Credit hours**
Provides theoretical foundation and a framework for examining health promotion, population health, health equity and the implementation of community based interventions. Uses current data to improve outcomes.
Grade Mode: Normal Grading Mode

NUR 704 Leadership Role **3 Credit hours**
Focuses on theories and principles of communication, leadership, interprofessional collaboration, change management and systems thinking to improve outcomes.
Pre-req: NUR 700 with a minimum grade of C.
Grade Mode: Normal Grading Mode

NUR 706 Health Systems Policy **3 Credit hours**
Provide comprehensive systems thinking approach to include policy, economic, and financial principles to promote high quality health care delivery to individual, populations and communitites.
Pre-req: NUR 700 with a minimum grade of C.
Grade Mode: Normal Grading Mode

NUR 708 Information Systems **3 Credit hours**
Focuses on nursing informatics knowledge and skills needed to assess, evaluate, and optimize health information systems/technology to support communication, delivery of high-quality care, and improvement of population health.
Pre-req: NUR 700 with a minimum grade of C.
Grade Mode: Normal Grading Mode

NUR 710 Quality Improvement **3 Credit hours**
Explores quality improvement methods, tools, and strategies. Focuses on measurement and accountability in health care delivery systems through examination and analysis of data, structure, processes, and outcomes.
Grade Mode: Normal Grading Mode

NUR 712 Biostats and Epidemiology **3 Credit hours**
Application and interpretation of statistical and epidemiological techniques appropriate to health sciences. Examines principles of statistical inference and their application to the analysis and interpretations for answering practice questions.
Pre-req: NUR 710 with a minimum grade of C.
Grade Mode: Normal Grading Mode

NUR 714 Evidence Based Practice **3 Credit hours**
Philosophical, conceptual, and theoretical perspectives as well as research methods are examined. Explore the application knowledge to inform, evaluate and translate evidence for practice.
Pre-req: NUR 710 with a minimum grade of C and NUR 712 with a minimum grade of C.
Grade Mode: Normal Grading Mode

NUR 720 Adv Pharm Nurse Anes I **4 Credit hours**
Study of general principles of pharmacology, pharmacokinetic, pharmacodynamic, and biochemisty concepts, as they relate to specific anesthetic and adjunct drugs. It will also emphasize integration of this information into clinical areas regarding anesthetic uses, dosages, and side effects of these classes of drugs.
Grade Mode: Normal Grading Mode

NUR 721 Adv Pharm Nurse Anesth II **3 Credit hours**
This course is a continuation of Pharmacology I with an emphasis on drugs acting on the Autonomic Nervous System, local aneshtetic agents, drugs for pain management, and cardiovascular drugs.
Grade Mode: Normal Grading Mode

NUR 735 Clinical Practice Inquiry **3 Credit hours**
Integration of conceptual, theoretical, and empirical knowledge as a basis for evidence-based practice in nurse anesthesia. Examination of the processes required to develop best practice models through the systematic analysis of research.
Pre-req: NUR 741.
Grade Mode: Normal Grading Mode

NUR 741 Adv HC Prac/Phys As **6 Credit hours**
The Introduction ot Health Care Clinical Practicum provides the student with a beginning knowledge and proficiency in all phases of anesthetic management (pre-anesthesia, induction, maintenance, post-anesthesia)
Grade Mode: Credit/No Credit Grade Only

NUR 741-A Health Care Practicum **5 Credit hours**
The Clinical Practicum prepares the student for the full scope of current practice and requires a minimum of 550 clinical cases including a variety of procedures, techniques, and speciality practice.
Pre-req: NUR 741.
Grade Mode: Normal Grading Mode

NUR 741-C Health Care Practicum **5 Credit hours**
Continuation of MPNA 741-A
Pre-req: NUR 741-B.
Grade Mode: Normal Grading Mode

NUR 741A Health Care Clinical Practicum **1 Credit hour**
The Clinical Practicum prepares the student for the full scope of current practice and requires a minimum of 550 clinical cases including a variety of procedures, techniques and specialty practice.
Pre-req: NUR 741.
Grade Mode: Credit/No Credit Grade Only

NUR 741B Nurse Anesth Prof Practice **3 Credit hours**
Continuation of NUR 741.
Pre-req: NUR 741.
Grade Mode: Credit/No Credit Grade Only

NUR 741C Health Care Practicum **6 Credit hours**
Continuation of NUR 741.
Pre-req: NUR 741.
Grade Mode: Credit/No Credit Grade Only

NUR 744 Regional Anesthesia **1 Credit hour**
Continuation and conclusion of materials started in NUR 741.
Pre-req: NUR 741.
Grade Mode: Normal Grading Mode

NUR 785 Independent Study **1-3 Credit hours**
This course is designed to provide the scope and structure for clinical activities for those students who need additional clinical hours for the PM-DNP Program requirements.
Grade Mode: Pass/Fail Grading Mode

NUR 786 Independent Study **1-3 Credit hours**
This course is designed to provide the scope and structure for clinical activities for those students who need additional clinical hours for the PM-DNP Program requirements.
Grade Mode: Pass/Fail Grading Mode

NUR 800 DNP Project I **3 Credit hours**
Application of theory, review of literature and population data to frame evidence based practice (EBP) project.
Pre-req: NUR 700 with a minimum grade of C.
Grade Mode: Normal Grading Mode

NUR 804 DNP Project II **3 Credit hours**
Use theories, methods, and evidence to develop evidence based practice (EBP) project implementation plan.
Pre-req: NUR 700 with a minimum grade of C and NUR 800 with a minimum grade of C.
Grade Mode: Normal Grading Mode

NUR 808 DNP Project III **3 Credit hours**
Implementation of Evidence based practice (EBP) project in clinical agency and data collection.
Pre-req: NUR 800 with a minimum grade of C and NUR 804 with a minimum grade of C.
Grade Mode: Normal Grading Mode

NUR 812 DNP Project IV **3 Credit hours**
Apply theory and evidence-based practice principles to complete, evaluate and disseminate evidence based practice (EBP) project findings.
Pre-req: NUR 800 with a minimum grade of C and NUR 804 with a minimum grade of C and NUR 808 with a minimum grade of C.
Grade Mode: Normal Grading Mode

Physical Therapy

PT 700 Gross Anatomy for PT **5 Credit hours**
Lecture and laboratory focusing on anatomical structure and function of the human body. Cadaveric dissection provides practical experiences allowing students to develop working images of the body and its function.
Grade Mode: Normal Grading Mode

PT 701 Neuroanatomy **4 Credit hours**
Normal and abnormal structure and function of central, peripheral and autonomic systems, neurodevelopment, and neural mechanisms mediating motor control and pain with emphasis on clinical relevance to physical therapy.
Grade Mode: Normal Grading Mode

PT 702 Neuro Evaluation **1 Credit hour**
Comprehensive screening, exam and evaluation of patients with neurological dysfunction with focus on selection and interpretation of examination components in order to discern underlying pathophysiology reflective of neurological dysfunction.
Grade Mode: Normal Grading Mode

PT 704 Neurorehabilitation **4 Credit hours**
Theoretical basis and clinical application of neurophysiological approaches to treatment utilizing motor control, sensorimotor development and integration principles, including discussion and practice of current methods of evaluation and intervention.
Grade Mode: Normal Grading Mode

PT 710 Clinical Skills I **3 Credit hours**
Lecture and laboratory introducing students to basic histology of connective, nervous, epithelial and muscle tissue utilized in human movement, palpation, goniometry, and manual muscle testing.
Grade Mode: Normal Grading Mode

PT 711 Kinesiology & Biomechs in PT **3 Credit hours**
Biomechanical terminology and principles, muscle actions, joint mechanics, joint segments and whole-body movement pattern analysis, and mastery of human movement observational analysis skills necessary for differential diagnosis of movement dysfunction.
Grade Mode: Normal Grading Mode

PT 712 Motor Control & Develop in PT **3 Credit hours**
Reviews maturation of movement systems, lifespan motor skills development, and contemporary theories of motor control and learning to build evidence-based foundations for evaluation and management of movement dysfunction.
Grade Mode: Normal Grading Mode

PT 713 Outcome Measures in PT **2 Credit hours**
Assessment of constraints to normal movement, application of standardized tools for assessment of movement dysfunction, examination of statistical data (population specific reliability, validity, sensitivity, specificity, odds ratios) of said tools.
Grade Mode: Normal Grading Mode

PT 714 Movement Integration **1 Credit hour**
This course prepares students to integrate knowledge of the movement system with synthesis of pathology and patient specific movement patterns. Identification and treatment of movement impairments will be emphasized.
Grade Mode: Normal Grading Mode

PT 720 Advanced Clinical Physiology **3 Credit hours**
Reviews normal human cellular- and organ-level physiology, histology, and function and introduces related topics of pathophysiology including: clinical signs and symptoms, clinical laboratory science, medical management and pharmacological issues.
Grade Mode: Normal Grading Mode

PT 721 Applied Ex Phys **3 Credit hours**
Physiological effects of exercise and training in heathy individuals and individuals with pathological dysfunction.
Grade Mode: Normal Grading Mode

PT 731 Clinical Skills II **3 Credit hours**
Theory/practice of essential physical therapy skills, including clinical decision making, interview, postural and functional assessment, safe patient handling techniques of positioning, bed mobility, transfers, and use of assistive devices.
Grade Mode: Normal Grading Mode

PT 732 Therapeutic Exercise **3 Credit hours**
Lecture and laboratory introducing students to the science, principles, and techniques of therapeutic exercise including range of motion, flexibility, motor control, strength, coordination, and balance for the treatment of patients across the life-span.
Grade Mode: Normal Grading Mode

PT 733 Therapeutic Modalities **1 Credit hour**
Physiological effects and the clinical application of therapeutic modalities (biophysical agents) in physical therapy practice.
Pre-req: PT 732 with a minimum grade of C.
Grade Mode: Normal Grading Mode

PT 734 Clinical Skills III **1 Credit hour**
Comprehensive patient/client management approach for conditions in acute care involving clinical decision-making, effective communication, safety, patient management, discharge planning, and introduction to equipment, lines and tubes, lab values, and medications.
Grade Mode: Normal Grading Mode

PT 741 Medical Pathology in PT I **2 Credit hours**
Pathological conditions, and medical and surgical considerations for treatment of genetic, gastrointestinal renal, endocrine and metabolic, immune, hematologic, and infectious disorders in patients treated by physical therapists.
Grade Mode: Normal Grading Mode

PT 742 Medical Pathology in PT II **2 Credit hours**
Pathological conditions, and medical and surgical considerations for treatment of musculoskeletal disorders in patients treated by physical therapists.
Grade Mode: Normal Grading Mode

PT 744 Med Pathology in PT III Neuro **3 Credit hours**
This course reviews the functional neuroanatomy and neuropathlogy correlated with select neuropathlogical conditions or injury, focusing on etiology, epidemiology, medical/surgical considerations, neural substrates of cognitive, perceptual, and sensorimotor function in patients treated by physical therapists.
Grade Mode: Normal Grading Mode

PT 745 Imaging in Physical Therapy **1 Credit hour**
Students will gain understanding of the use of medical imaging by physical therapists. Plain film and advanced imaging modalities are covered. Clinical decision making is emphasized.
Pre-req: PT 700 with a minimum grade of C and PT 701 with a minimum grade of C.
Grade Mode: Normal Grading Mode

PT 746 Medical Tests and Measurements **1 Credit hour**
Basic principles of medical diagnostic tests, such as laboratory tests, medical imaging, sonography and EKG, commonly encountered in physical therapy.
Grade Mode: Normal Grading Mode

PT 747 Pharmacology in PT **2 Credit hours**
Examination of the effects of commonly used prescription, over the counter and homeopathic drugs. Focus on method of action, indications, contraindications, side effects and impact on physical therapy patients.
Grade Mode: Normal Grading Mode

PT 748 Pain Science **1 Credit hour**
A study of the multidimensional nature of pain using a biopsychosocial approach that includes contemporary pain science theories, concepts and principles, and the holistic assessment and management of pain in physical therapy practice.
Grade Mode: Normal Grading Mode

PT 750 Foundations of Phys Ther **2 Credit hours**
Introduces students to medical terminology, historical foundations, and contemporary practice of physical therapy, traditional and emerging roles and responsibilities and professional behaviors of the physical therapist and issues of self-awareness and communications.
Grade Mode: Normal Grading Mode

PT 751 Legal & Ethical Issues in PT **2 Credit hours**
Development of cultural competence, analysis and practice of communications skills including documentation, professionalism, group dynamics and leadership to assume roles of practitioner, instructor, supervisor, and leader.
Grade Mode: Normal Grading Mode

PT 752 Professional Practice II **2 Credit hours**
Introduction to legislative process, liability, and legal and ethical issues, including considerations of task delegation and supervision of patients/clients, physical therapist assistants, staff, and students.
Grade Mode: Normal Grading Mode

PT 753 Professional Practice II **2 Credit hours**
Teaching and learning principles, practitioner and clincial instructor roles, clinical education program, facility, faculty, and student responsibilities, clinical and program evaluative instruments, patient advocacy and preparation for community service opportunities.
Grade Mode: Normal Grading Mode

PT 754 Health Care Delivery Systems **1 Credit hour**
Micro and macro principles of healthcare delivery systems, sites, and organizations and pro bono services. Legalities of appropriate documentation for third party payers and federal insurance programs are addressed.
Grade Mode: Normal Grading Mode

PT 755 Service Learning Practicum **1 Credit hour**
Allows participation in service learning programs emphasizing advocacy for the health needs of the region, as well as coordination with community agencies.
Grade Mode: Pass/Fail Grading Mode

PT 756 Administration in PT **3 Credit hours**
Emphasis on administration of clinical practice in multiple settings. Information about licensure, attainment and retention of employment, professional organization membership, residency and fellowship programs, and specialization.
Grade Mode: Normal Grading Mode

PT 758 PM&BC in PT Practice **1 Credit hour**
Introduction to patient motivation and behavioral change in physical therapy practice. Emphasis on practical strategies to promote healthy patient/client change leading to improved human movement and overall health
Grade Mode: Normal Grading Mode

PT 761 EBP I **2 Credit hours**
Decision making, diagnosis, and hypothesis development, utilization of information sources, and principles, concepts, and skills required to critically analyze and conduct clinical research in physical therapy.
Grade Mode: Normal Grading Mode

PT 762 EBP II **1 Credit hour**
Principles, concepts, and basic skills required to conduct clinical research in physical therapy. Topics include research design, sampling, bias, sensitivity and specificity, questionnaire design, statistical computing, conceptual review of literature.
Grade Mode: Normal Grading Mode

PT 763 EBP II **2 Credit hours**
Students are guided through the process of a Systematic Literature Review development on a topic selected by the student and their Faculty Research Advisor and learn to apply principles of research to the clinical decision making process and to make recommendations for practice.
Grade Mode: Normal Grading Mode

PT 764 EBP III **1 Credit hour**
Continuation of Evidence Based Practice III where students receive continued guidance in the completion of the faculty led capstone project begun in EBP III. Presentation of capstone required before graduation.
Grade Mode: Normal Grading Mode

PT 765 EBP IV **1 Credit hour**
Continuation of Evidence Based Practice IV where students receive continued guidance in the completion of the faculty led capstone project begun in EBP III. Presentation of capstone required before graduation.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

PT 766 EBP V **1 Credit hour**
Continuation of Evidence Based Practice V where students receive continued guidance in the completion of the faculty led capstone project begun in EBP III. Presentation of capstone required before graduation.
Grade Mode: Normal Grading Mode

PT 767 EBP VI **1 Credit hour**
Continuation of Evidence Based Practice VI where students receive continued guidance in the completion of the faculty led capstone project begun in EBP III culminating with presentation of completed capstone.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

PT 771 Clin Application Seminar I **1 Credit hour**
Application of knowledge and skills through small group discussion and simulation, focusing on non-ambulatory settings, basic orthopaedic conditions in ambulatory setting, telehealth, and integration of outcome measures.
Grade Mode: Pass/Fail Grading Mode

PT 772 Clin Application Seminar II **1 Credit hour**
Application of information and clinical skills learned in concurrent and prior DPT coursework in a small group discussion and pseudo-clinical setting. Focus on management of moderately complex neuromusculoskeletal dysfunction in a variety of settings.
Attributes: No Textbook Required
Grade Mode: Pass/Fail Grading Mode

PT 773 Clin Application Seminar III **1 Credit hour**
Application of knowledge and skills learned in the curriculum through small group discussion, simulation, and intra-interprofessional collaboration with a focus on cardiopulmonary and neurologic dysfunctions.
Grade Mode: Pass/Fail Grading Mode

PT 774 Clin Application Seminar IV **1 Credit hour**
Continued application of information and clinical skills learned in concurrent and prior DPT coursework in a small group discussion and pseudo-clinical setting. Focus on spinal pathology and neuromuscular dysfunction.
Grade Mode: Pass/Fail Grading Mode

PT 775 Clin Application Seminar V **1 Credit hour**
Continued application of information and clinical skills learned in concurrent and prior DPT coursework in a small group discussion and pseudo-clinical setting. Focus on cardiopulmonary and complex neuromuscular dysfunction.
Grade Mode: Pass/Fail Grading Mode

PT 776 Clin Application Seminar VI **1 Credit hour**
Continued application of information and clinical skills learned in concurrent and prior DPT coursework in a small group discussion and pseudo-clinical setting. Interdisciplinary management of patients with complex concerns.
Grade Mode: Pass/Fail Grading Mode

PT 777 Clin Application Seminar VII **1 Credit hour**
Continued application of information and clinical skills learned in concurrent and prior DPT coursework in a small group discussion and pseudo-clinical setting. Focus on health promotion and chronic disease prevention.
Grade Mode: Pass/Fail Grading Mode

PT 781 Orthopedics in PT I **3 Credit hours**
The principles of orthopedic physical therapy, including an overview of etiology, examination, evaluation, diagnosis, conservative intervention, and surgical management for the peripheral (extremity) musculoskeletal system will be emphasized.
Grade Mode: Normal Grading Mode

PT 782 Orthopaedics in PT II **4 Credit hours**
The principles of orthopedic physical therapy, including an overview of etiology, examination, evaluation, diagnosis, conservative intervention, and surgical management for the axial (spinal) musculoskeletal system will be emphasized.
Grade Mode: Normal Grading Mode

PT 783 Cardiopulmonary in PT **4 Credit hours**
An overview of cardiovascular and pulmonary systems pathologies, medical diagnosis and management and physical therapy diagnosis, examination, assessment and management of related physiological and movement dysfunctions.
Grade Mode: Normal Grading Mode

PT 784 Integumentary **2 Credit hours**
Review of structure, function, and applied pathophysiology of the integumentary and lymphatic systems. Includes examination and management of common integumentary and lymphatic impairments focusing on prevention, restoration, and optimizing independence.
Grade Mode: Normal Grading Mode

PT 785 Health Promo and Nutrition **2 Credit hours**
Development and maintenance of healthy lifestyles for patients and clients. Focus on disease prevention, nutritional needs, and the benefits of exercise as well as managing individuals with injury or disease.
Grade Mode: Normal Grading Mode

PT 786 Pediatrics & Geriatrics in PT **3 Credit hours**
Principles of evaluation and treatment in the areas of pediatrics and geriatrics. Emphasis placed on biopsychosocial aspects of developmental disabilities, coordination of care and complexities of multi-system and multi-organ disease.
Grade Mode: Normal Grading Mode

PT 787 Prosthetics & Orthotics **2 Credit hours**
Principles of evaluation and management of patients with amputation and/or neuromuscular disorders to maximize functional independence. Focus on prosthetic and orthotic prescription, components, fabrication, fit, and use during functional activities.
Grade Mode: Normal Grading Mode

PT 788 Special Topics in PT **1 Credit hour**
Principles of physical therapy management of select patient populations including bariatrics, women's health, oncology, and selected progressive and chronic diseases.
Grade Mode: Normal Grading Mode

PT 789 Ortho III (Primary Care PT) **2 Credit hours**
The course will prepare students to collaboratively function as a human movement system expert within the primary care delivery model. Screening, triage, decision making, consulting, and education will be emphasized.
Grade Mode: Normal Grading Mode

PT 790 ICEs in Physical Therapy I **1 Credit hour**
Supervised clinical experiences and seminar sessions designed to provide exposure to the clinical practice of physical therapy, focused on psychomotor skills and affective behaviors, while applying previously acquired didactic information.
Grade Mode: Normal Grading Mode

PT 791 Clinical Internship I **4 Credit hours**
Supervised clinical education experience emphasizing continued development and reinforcement of clinical skills in clinical settings. Competence is expected in areas of the material presented to date in the curriculum.
Grade Mode: Pass/Fail Grading Mode

PT 792 Clinical Internship II **6 Credit hours**
Supervised clinical education experience emphasizing continued development and reinforcement of clinical skills in various clinical settings. Competence is expected in areas of the material presented to date in the curriculum.
Grade Mode: Pass/Fail Grading Mode

PT 793 Clinical Internship III **6 Credit hours**
Supervised clinical education experience emphasizing continued development and reinforcement of clinical skills in various clinical settings. Competence is expected in areas of the material presented to date in the curriculum.
Attributes: No Textbook Required
Grade Mode: Pass/Fail Grading Mode

PT 794 ICEs in PT II **1 Credit hour**
Faculty supervised clinical experiences in a student-directed pro bono physical therapy clinic with complementary activities related to clinical practice, serving the community, and strengthening clinical partnerships.
Grade Mode: Credit/No Credit Grade Only

PT 798 Independent Study **1-4 Credit hours**
Independent study of a specific nature under the supervision of a qualified faculty member. Hours of credit are determined by the magnitude of the project. (PR: permission of Chair of School of Physical Therapy)
Grade Mode: Normal Grading Mode

PT 799 Integration & Review **1 Credit hour**
Integration and review of clinical physical therapy principles and concepts in preparation for the National Physical Therapy Board Examination.
Grade Mode: Credit/No Credit Grade Only

Public Health

PH 601 Intro Public Health **1 Credit hour**
An introduction to public health, including its foundation and history, principles and charactersitics of the discipline, professional roles, and individual career development and planning.
Grade Mode: Normal Grading Mode

PH 602 Public Health Biology **2 Credit hours**
Reviews biological bases of public health issues, including principles of disease development, including genetics, oncogenesis, and immunology. My be waived for those holding appropriate degress in biological or clinical sciences.
Grade Mode: Normal Grading Mode

PH 603 Intro to Rural Health **3 Credit hours**
Introduction to the particular issues of rural health, both domestically in the U.S. and internationally.
Grade Mode: Normal Grading Mode

PH 610 Intro to PH **2 Credit hours**
This course introduces students to the field of public health, how it works, and provides students with an opportunity to become familiar with essential concepts and resources in public health.
Grade Mode: Normal Grading Mode

PH 611 Epidemiology **3 Credit hours**
An introduction to basic concepts of including risk, study design, and analysis. Students apply these techniques to examine outbreaks, and evaluate preventives, diagnostics and treatments.
Grade Mode: Normal Grading Mode

PH 615 Health Sys Research **3 Credit hours**
An introduction to research in public health. Students examine prerequisites to successful study, as well as issues including funding, protocol design, data management, analysis, collaboration, and publication.
Co-req: PH 611, PH 621
Grade Mode: Normal Grading Mode

PH 616 Clinical Trials **3 Credit hours**
An examination of methods and issues in conducting clinical research. Includes critical aspects of study design, protocol development, recruitment and consent, and assessment of outcomes.
Pre-req: PH 611 and PH 621.
Grade Mode: Normal Grading Mode

PH 617 Meth Comp Study **3 Credit hours**
Examination of methods to determine the relative value of preventive, diagnostic and treatment alternatives for efficacy, cost, and practical application. Models include meta-analysis, comparative effectiveness trials, and data mining.
Pre-req: PH 611 and PH 621.
Grade Mode: Normal Grading Mode

PH 620 PH Issues **2 Credit hours**
Provide practical situations and contemporary issues in public health where students apply knowledge and theoretical concepts from coursework, strengthen existing skills/analytic thinking, and apply public health core competencies.
Grade Mode: Normal Grading Mode

PH 621 Statistical Methods I **3 Credit hours**
Introduction to statistical principles and methods. Includes descriptive and inferential statistics. Students will gain experience in the use of SPSS software, and in the interpretation and communication of statistical tests.
Grade Mode: Normal Grading Mode

PH 622 Statistical Methods II **2 Credit hours**
Examination of procedures including multiple linear and logistic regression, survival analysis, advanced non-parametric tests, repeated measures. Students gain experience in the use of SAS software for data management and analysis.
Pre-req: PH 621 with a minimum grade of C.
Grade Mode: Normal Grading Mode

PH 631 Environmental Health **2 Credit hours**
Introduction to environmental health principles, practices and policy. Students gain knowledge of the study, assessment, prevention and mitigation of exposures adversely affecting health.
Pre-req: PH 621 with a minimum grade of C.
Grade Mode: Normal Grading Mode

PH 641 Social Behavioral Aspects PH **2 Credit hours**
Examination of the application of social and behavioral sciences in public health, with emphasis on behavioral theory and related mechanisms for effecting individual and group changes in health status.
Grade Mode: Normal Grading Mode

PH 642 Health Communications **2 Credit hours**
Students learn methods to communicate health information effectively with disparate groups, develop communications strategies appropriate to diverse content and audiences, and gain skill in utilizing innovative interactive media.
Grade Mode: Normal Grading Mode

PH 650 MPH Practicum **6 Credit hours**
To provide students with opportunity to apply concepts and knowledge from the MPH curriculum and demonstrate competency in the public health practice setting.
Grade Mode: Credit/No Credit Grade Only

PH 651 Public Health Services **2 Credit hours**
An introduction to public health management, planning, implementation and evaluation. Students gain an integrated understanding of public health resources and their effective utilization to improve health.
Grade Mode: Normal Grading Mode

PH 653 Rural Health Addiction **2 Credit hours**
Introduction to the public health issues of, and interventions for, alcohol, tobacco, and drug addiction in the Appalachian region, with a special emphasis on opioid addiction and drug overdose.
Grade Mode: Normal Grading Mode

PH 655 Intro Health Policy **2 Credit hours**
An introduction to legal and policy foundations of U.S. health care, including its delivery, regulation and financing. Students develop skills in policy analysis and formulation, and learn principles of advocacy.
Grade Mode: Normal Grading Mode

PH 656 Topics in Health Policy **3 Credit hours**
A study of current issues of health policy, including major issues of health reform. Students apply their skills to formulate, package, and present their own health policy proposal.
Grade Mode: Normal Grading Mode

PH 657 Public Health Prog Eval **3 Credit hours**
This course deals with the application of research methods to evaluate public health programs and health services.
Pre-req: PH 621 with a minimum grade of D.
Grade Mode: Normal Grading Mode

PH 660 Environmental PH **3 Credit hours**
This graduate course provides students with a broad knowledge base of environmental public health science by addressing the significance of the environment on human health and wellness.
Grade Mode: Normal Grading Mode

PH 661 Chronic Disease **3 Credit hours**
Examination of major chronic diseases including mechanisms of development, risk, diagnosis and interventional strategies. Scope of the course includes cardiovascular, respiratory and neurodegenerative disorders, as well as diabetes and cancer.
Grade Mode: Normal Grading Mode

PH 662 Control of Inf Disease **3 Credit hours**
Examination of infectious diseases from a public health perspective, including strategies for prevention, treatment, control and eradication.
Pre-req: PH 611 with a minimum grade of C.
Grade Mode: Normal Grading Mode

PH 663 Health Behavior **3 Credit hours**
This course introduces students to the models of health behavior as it applies to public health.
Grade Mode: Normal Grading Mode

PH 671 Community Health **3 Credit hours**
Students learn how to facilitate programs and capacity building to enable communities to identify and address health issues. Students gain training in surveying and interviewing, and in health impact assessment.
Grade Mode: Normal Grading Mode

PH 672 Global Health **3 Credit hours**
An introduction to global health, including examination of disparities, development. The roles of governments, NGOs and citizens are examined; and students gain experience in issue analysis and developing health strategies.
Pre-req: PH 611.
Grade Mode: Normal Grading Mode

PH 678 Principles Epi in PH **3 Credit hours**
Basic epidemiology principles, concepts, and procedures useful in the surveillance and investigation of health-related states or events. It is designed for federal, state, local government and private sector health professionals responsible for disease control.
Grade Mode: Normal Grading Mode

PH 686 Health Information Technology **3 Credit hours**
An introduction to health information technology applications and issues, as well as the growing impact of advances in biotechnology on public health.
Grade Mode: Normal Grading Mode

PH 689 Community Outreach Health **3 Credit hours**
Applied and experiential course in designing and implementing a community health outreach project for the improvement of health in rural Appalachia.
Grade Mode: Normal Grading Mode

PH 691 Health Promo & Disease Prevent **3 Credit hours**
This graduate course provides students with a broad knowledge base of health promotion and disease prevention in public health.
Grade Mode: Normal Grading Mode

PH 692 Seminar **1 Credit hour**
Introduction to health science literature review and critique, as well as presentation of research and practicum reports.
Grade Mode: Normal Grading Mode

PH 693 Law and Ethics **3 Credit hours**
Introduction to the legal and ethical foundations of public health practice, including study of how individuals, practitioners, organizations and government address key issues.
Grade Mode: Normal Grading Mode

PH 694 Practicum **3 Credit hours**
Applied public health experience conducted under guidance of a faculty advisor and site preceptor, including a specific set of proposed project and learning objectives, and utilizing a community partner.
Pre-req: PH 611 with a minimum grade of C and PH 621 with a minimum grade of C and PH 641 with a minimum grade of C and PH 686 with a minimum grade of C and PH 693 with a minimum grade of C.
Attributes: No Textbook Required
Grade Mode: Credit/No Credit Grade Only

PH 695 Research **3 Credit hours**
Student research project, under guidance of the faculty advisor. Student project may include work towards thesis.
Pre-req: PH 611 and PH 621.
Attributes: Thesis
Grade Mode: Credit/No Credit Grade Only

PH 696 Capstone **3 Credit hours**
Course provides a structured and mentored process for students to produce written and oral components of a capstone project on a selected topic or question. (PR: Prior or current PH 694 or PH 695)
Pre-req: PH 694 (may be taken concurrently) with a minimum grade of C or PH 695 (may be taken concurrently) with a minimum grade of C.
Concurrent PR: PH 694 or PH 695
Grade Mode: Normal Grading Mode

Social Work

SWK 501 Foundations of Gen Practice I **3 Credit hours**
This is the first in a sequence of two courses designed to develop the practice knowledge and skills necessary for MSW students to begin professional social work practice. The purpose of this course is to provide an overview of generalist practice.
Grade Mode: Normal Grading Mode

SWK 511 Foundations of HBSE **3 Credit hours**
This course is designed to enhance student's understanding of human behavior in the context of the social environment. The course includes content on theories and knowledge relative to human behavior and includes content on lifespan development, diversity, and culturally sensitive social work practice.
Grade Mode: Normal Grading Mode

SWK 521 Foundations of Social Policy **3 Credit hours**
The initial focus of this course is to provide students with an historical background of social welfare and social work. Students will learn how to analyze social policies focused on the social welfare institution.
Grade Mode: Normal Grading Mode

SWK 531 Foundations of Gen Practice II **3 Credit hours**
This is the second of two courses in MSW social work practice focused on preparing the student for entry into professional social work. Particular emphasis placed on the micro level of practice, working with individuals and families.
Grade Mode: Normal Grading Mode

SWK 541 Foundations of Research **3 Credit hours**
Introduction to scientific, analytic, approach to building knowledge and skills, including: role of concepts and theory, hypothesis, formulation, operationalization, research design, data collection, data processing, statistical analysis, introductory computer skills, and report writing.
Grade Mode: Normal Grading Mode

SWK 551 Foundations of Field Practicum **1-9 Credit hours**
This course is part of the field practicum experience where students are supervised in a social welfare agency for 400 clock hours. Building on foundation practice skills, students will apply knowledge, values, and skills to the generalist practice experience under the supervision of a licensed social worker.
Pre-req: SWK 501 with a minimum grade of C and SWK 511 with a minimum grade of C.
Grade Mode: Credit/No Credit Grade Only

SWK 579 Death Dying Berevement **3 Credit hours**
The purpose of this course is to provide intense study of the impact of Death, Dying and Berevement on individuals, families, and communities. Class format is both didactic and interactive. Case vignettes, videotapes and semi-structured class exercises will accompany lectures and assigned reading. The combination of these approaches will highlight process of how to conduct individual grief lectures, etc.
Grade Mode: Normal Grading Mode

SWK 580 Special Topics **1-4 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

SWK 581 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

SWK 582 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

SWK 583 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

SWK 585 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

SWK 586 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

SWK 587 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

SWK 613 Adv Human Behavior Social Env **3 Credit hours**
Social Work 613 is the second course in a two-course sequence that promotes a multidimensional understanding of human functioning and behavior across systems and the life course. This course specifically examines human behavior and functioning among individuals and families.
Grade Mode: Normal Grading Mode

SWK 614 Adm SWK Pract Behav Health **3 Credit hours**
Addresses theories and skills needed for direct supervision of workers and middle and upper management skills in service organizations. Models of supervision and administration are explored for these complex organizations.
Pre-req: SWK 613 (may be taken concurrently) with a minimum grade of C and SWK 622 (may be taken concurrently) with a minimum grade of C and SWK 642 (may be taken concurrently) with a minimum grade of C.
Concurrent PR: SWK 613 and SWK 622 and SWK 642
Grade Mode: Normal Grading Mode

SWK 615 Psychopathology **3 Credit hours**
The purpose of this course is to provide students with a solid foundation for understanding psychopathology and provides the knowledge for psychological diagnosis in clinical social work practice.
Grade Mode: Normal Grading Mode

SWK 616 Policy Prac in Beh Health **3 Credit hours**
Overview and analysis of current health policies, health care delivery, payment models, and benefits. Focus on implications and for clients served in health, behavioral health, integrated care settings with adults, families, and geriatrics.
Pre-req: SWK 615 (may be taken concurrently) with a minimum grade of C and SWK 643 (may be taken concurrently) with a minimum grade of C and SWK 653 (may be taken concurrently) with a minimum grade of C.
Concurrent PR: SWK 615 and SWK 643 and SWK 653
Grade Mode: Normal Grading Mode

SWK 622 Int Health Policy & Services **3 Credit hours**
The purpose of this course is to provide intensive study of the evolution of the integration of primary care and behavioral health services and to provide an opportunity for students to synsthesize and apply this learning to the practice of policy in the behavorial health service arena.
Grade Mode: Normal Grading Mode

SWK 623 Mil MH & Impact of Trauma **3 Credit hours**
The course explores the effects of deployment and combat stress on the physical and mental health of active duty U.S. service members and their families.
Grade Mode: Normal Grading Mode

SWK 624 MSW Supervision **1 Credit hour**
This course is part of the field practicum experience where students are supervised at their field agency for 450 clock hours.
Grade Mode: Normal Grading Mode

SWK 630 Int MH, Substance Use & Trauma **3 Credit hours**
this course identifies and explains ways to which clients with a diagnosis of trauma and co-occuring mental health and substance use can be treated simultaneously.
Grade Mode: Normal Grading Mode

SWK 631 Int Health Models & Pract **3 Credit hours**
This course prepares social workers to work collaboratively with cross disciplinary teams of providers. Social workers will be prepared to work in a variety of roles and functions, and possess the necessary skills to engage with highly diverse populations.
Grade Mode: Normal Grading Mode

SWK 633 Adv Clin SW Prac Ind Fam **3 Credit hours**
This course builds upon first year human behavior and practice foundation courses from a trans-disciplinary perspective. The goal is to facilitate integrating this knowledge with advanced analysis of research and theory for social work practice in healthcare settings.
Grade Mode: Normal Grading Mode

SWK 634 Adv SW Prac Gps Com & Org **3 Credit hours**
This course provides the knowledge and skills needed to understand community, group, and organizational behaviors and the planned change process. Particular focus will be on rural and underserved populations.
Grade Mode: Normal Grading Mode

SWK 642 Adv Social Research I **3 Credit hours**
This course introduces students to the philosophical and methodological issues of qualitative research. The course focuses on practicing various methods with the goal of producing a small qualitative study.
Grade Mode: Normal Grading Mode

SWK 643 Adv SW Research II **3 Credit hours**
Program and intervention development and evaluation research in health settings; issues and skill development in program design and methods for evaluation.
Grade Mode: Normal Grading Mode

SWK 650 Und Military Culture **3 Credit hours**
The purpose of this course is to train students to understand the military culture within which military families function. The course looks at stressors such as deployment, diversity of military family structures and a range of diversity filters which impact the military family and military culture.
Grade Mode: Normal Grading Mode

SWK 653 Adv Field Practicum **1-9 Credit hours**
This course provides concentration year students with an agency-based field instruction and classroom seminar for advanced learning and practice opportunities. The practicum takes place during the second semester of the concentration year.
Grade Mode: Credit/No Credit Grade Only

SWK 654 MSW Supervision **1 Credit hour**
This course is part of the field practicum experience where students are supervised at their field agency for 450 clock hours.
Grade Mode: Credit/No Credit Grade Only

SWK 655 Comorb Ment & Phy Disorders **3 Credit hours**
The course focues on behavioral health issues as related to prevention, assessment, treatment, and evaluation, and the effective implementation with all individuals to include military and military affiliated individuals, including veterans and their families.
Co-req: SWK 634
Grade Mode: Normal Grading Mode

SWK 656 SW In School Settings **3 Credit hours**
The skills of a trained social worker, include clinical, consultative, assessment and program development. Upon completion of the course students will be prepared to begin practice in school social work.
Grade Mode: Normal Grading Mode

SWK 657 Prevent In School Sw **3 Credit hours**
This course addresses the challenges facing teachers, youth, and families in our current environment. We will discuss childhood trauma while practicing methods of teaching youths.
Grade Mode: Normal Grading Mode

SWK 660 Social Gerontology **3 Credit hours**
This course is designed to involve students in the recognition of concerns and needs of dying patients and their families by examining the hospice concept and other services available.
Grade Mode: Normal Grading Mode

SWK 670 Adv Theory & Pract Child **3 Credit hours**
The course builds a framework for social work interventions using normative developmental supports and mental health case planning. Students will develop advanced clinical social work practice knowledge and skills for working with children and adolescents with mental health risks.
Grade Mode: Normal Grading Mode

SWK 673 Family & Community Violence **3 Credit hours**
This course provides content covering various types of violence through the lifespan. Specifically, child abuse, school violence, juvenille violence, family violence, workplace violence, and elder abuse will be analyzed and discussed. The course will consider the risk factors, current policies, practices and interventions with vulnerable populations.
Grade Mode: Normal Grading Mode

SWK 680 Intro to SW in Healthcare Set **3 Credit hours**
Course provides a detailed exploration of social work practice across the continuum of healthcare services including health promotion, disease prevention and community based, acute, tertiary and end of life care.
Grade Mode: Normal Grading Mode

SWK 681 Suicidology **3 Credit hours**
The course explores concepts of suicide as a public health issue. The course provides students with an understanding of suicide language and evidenced based clinical practice techniques.
Grade Mode: Normal Grading Mode

SWK 682 Human Trafficking **3 Credit hours**
Human Trafficking is grounded in fundamental concepts related to trafficking of human beings. Multiple forms of human exploitation as well as implications for social policy and interventions are discussed.
Grade Mode: Normal Grading Mode

SWK 683 Ethical Lead in Human Services **3 Credit hours**
Course is designed to enhance students skills and abilities in management or leadership positions in human service setting and includes elements of management and leadership theory and application of ethical supervision and practice standards.
Grade Mode: Normal Grading Mode

SWK 684 Rape Culture: Victim Biases **3 Credit hours**
This elective course will explore the phenomenon of rape (sexual assault) based on the experience of the person who reports the event instead of the charges on the perpetrator.
Pre-req: SWK 501 with a minimum grade of D and SWK 511 with a minimum grade of D and SWK 531 with a minimum grade of D.
Grade Mode: Normal Grading Mode

SWK 700 Aging and End of Life Issues **3 Credit hours**
This course examines again and end of life issues. Resources including alternatives to the traditional medical model such as Hospice and other community services are explored.
Grade Mode: Normal Grading Mode

Athletic Training (Professional), M.S.

Health and Movement Sciences

The School of Health and Movement Sciences offers graduate degrees in Athletic Training (M.S.), Biomechanics (M.S.), Exercise Physiology (M.S.), Sports Science (M.S.), and Strength and Conditioning (M.S.).

All degree programs require from 36 to 58 hours and successful completion of an oral comprehensive examination or thesis defense. Thesis and non-thesis options is available in the Exercise Science program.

Professional Master of Science - Athletic Training (PMAT)

The Marshall University Professional Master of Science in Athletic Training (PMAT) program is fully accredited by the CAATE (Commission on Accreditation of Athletic Training Education; www.caate.net (http://www.caate.net)). It is a rigorous multifaceted health professions program that blends classroom instruction with clinical rotations, where students obtain real life experience working hands-on with certified athletic trainers, physicians, physical therapists, and other allied health care professionals to provide patient care. The number of available openings for new students in this program is based on available instructional and clinical resources both on campus and at affiliated clinical sites. Because of the competitive nature of this program, applicants are encouraged to establish and maintain a high degree of academic excellence and professionalism as they pursue acceptance into this program. The rigorous curriculum prepares students to take the national BOC board exam (Board of Certification Exam; www.bocatc.org (http://www.bocatc.org)) to practice as professional-level professionals. This program is **not** a Post-Professional master's degree available to students who are already eligible for BOC certification or currently certified by the BOC. A degree in Athletic Training and BOC certification offer a graduate opportunities to practice in a variety of clinical settings. These settings include, but are not limited to, high school, college and professional athletics; outpatient clinics; industrial rehabilitation sites; physician practices; the performing arts; industrial settings, and higher education.

The PMAT is a 3+2 program, allowing current Marshall University students to apply after their 3rd year of undergraduate studies and to graduate two years later (5 years total) with both bachelor's and master's degrees. Additionally, students who hold a bachelor's degree from either Marshall or another accredited institution can also apply and complete the Professional Master of Science in Athletic Training program. Both routes prepare students to take the national BOC board exam. Acceptance into the PMAT program is competitive and separate from acceptance to Marshall University.

Admission Requirements

Admission Criteria

Acceptance into the Professional Master of Science in Athletic Training program is competitive and not guaranteed. Prospective students must meet the minimum criteria listed that follow to be considered for admission to the program:

- Admission to Marshall University;
- An overall cumulative minimum GPA of 3.0;
- A letter grade of *C* or better on all prerequisite coursework;
- Submit by February 15 all forms and supporting documentation to apply to the PMAT (*Note:* refer to the current edition of the Athletic Training Program Policies and Procedures Manual for information regarding the application and admission requirements)
- Directed observation clinical experience (*Note:* refer to the current edition of the Athletic Training Program Policies and Procedures Manual for details regarding the requirements for this DO clinical experience);
- Successful interview (Interviews will be extended in March);
- Ability to meet the Technical Standards of Admission documented by a licensed physician.

Application to the Marshall University PMAT program is completed through a centralized application system known as ATCAS. Applicants will apply online using the ATCAS system. To learn more about the ATCAS application process visit https://atcas.liaisoncas.com/. Application to the PMAT is on a rolling admission basis; however, to receive priority consideration all application materials must be received by February 15 for the Summer D session, which is when the program begins. Applicants who are admissible for the regular admission cycle, with a Summer start, may be permitted to delay graduate enrollment to the fall semester in limited instances, at the discretion of the Program Director, and if space permits. All applicants should follow the admissions process described in this catalog or at the Graduate Admissions website at http://www.marshall.edu/graduate/admissions/how-to-apply-for-admission (http://www.marshall.edu/graduate/admissions/how-to-apply-for-admission/).

Prerequisites - Provisional Admission Criteria

Prospective students must have taken or be currently enrolled in the following courses when applying to the PMSAT program. All students applying in their 3rd year from Marshall University must have all Core I and Core II courses completed by the end of the application semester, a minimum of 90 credit hours (*Note:* applicants with exceptional academic performance may also be considered if they should fall a few credit hours short of this 90-hour threshold; however, these students must have completed all the requirements for the bachelor's degree by the end of the first year in the PMSAT program), and the following prerequisite courses must be completed prior to the start of the PMSAT program:

- Anatomy and physiology (6-8 cr.)
- Biology (2-4 hrs.)
- Chemistry (2-4 hrs.)
- Physics (2-4 hrs.)
- Introduction to Athletic Training/Prevention and Care of Athletic Injuries (3 cr.)
- Exercise physiology (3-4 cr.)
- First Aid and CPR; must also hold current First Aid and CPR healthcare provider or professional rescuer certifications (1-3 cr.)
- General psychology (3 cr.)
- Kinesiology or biomechanics (3-4 cr.)
- Nutrition (3 cr.)
- Personal Health/Wellness (2-3 cr.)
- Statistical methods (3 cr.)
- Medical terminology (2-3 cr.)
- Sociology or comparable course (3 hrs.)

Plan of Study

Code	Title	Credit Hours
Athletic Training Core		
HS 512	Found Clinical Skills in AT	3
HS 515	Ath Trng Clinical Exp I	3
HS 523	Ortho Assess Upper Extremity	4
HS 524	Ortho Assess Lower Extremity	4
HS 525	Ath Trng Clinical Exp II	3
HS 548	Therapeutic Interventions I	4
HS 549	Therapeutic Interventions II	4
HS 609	Org & Admin Athletic Training	3
HS 630	Seminar Athl Training	3
HS 634	Ath Trng Externship	3
HS 639	Exam of Gen Med Conditions	3
HS 645	Ath Trng Clinical Exp III	3
HS 655	Ath Trng Clinical Exp IV	3
HS 679	Trends in Athletic Training	3
HS 680	Graduate Project in AT	3
ESS 670	Research Meth in Kinesiology	3
ESS 636	Structural Kinesiology	3
HS 657	Adv Trn/Certs	1-3
Total Credit Hours		**56-58**

Additional Requirements

- BOC Exam registration
- 3.0 overall GPA and no more than 6 hours of *C* and no grades below *C* may be applied toward a graduate degree
- Completion of all Athletic Training Clinical Experience courses with a letter grade of *B* or better
-

Biomechanics, M.S.

The **Biomechanics major** at Marshall University, housed within the School of Health and Movement Sciences (SHMS), provides a cutting-edge, interdisciplinary approach to the study of human movement. Combining anatomical, physiological, and mechanical principles, this program prepares students to analyze movement patterns, assess performance, and apply biomechanical concepts to real-world challenges in healthcare, sports, and rehabilitation.

Students engage in a dynamic curriculum that integrates foundational sciences with specialized biomechanics coursework, fostering expertise in motion analysis, neuromechanics, and applied research techniques. The program emphasizes hands-on learning, utilizing state-of-the-art technology such as force platforms, motion capture systems, and wearable sensors to develop critical problem-solving and analytical skills.

Graduates of the Biomechanics major are equipped for careers in rehabilitation sciences, research, technical support, safety, sports performance, and equipment development. Additionally, this program provides an excellent foundation for students pursuing graduate education in biomechanics, physical therapy, athletic training, prosthetics and orthotics, or other allied health professions. Through research opportunities and collaborations with industry partners, students gain practical experience and emerge as leaders in movement science and human performance optimization.

Admission Requirements

Prospective students must meet the minimum criteria listed below to be considered for admission to the program:

- Admission to Marshall University Graduate School,
- Declare a Health and Movement Sciences major of biomechanics, exercise physiology, sports science, or strength and conditioning,
- An Undergraduate Grade Point Average of 2.75 or higher on a 4.0 scale for all previously completed undergraduate university work,
- An appropriate undergraduate/graduate background that includes human anatomy, human physiology, exercise physiology, and physics,
- Three letters of reference;
- Personal statement; and
- A scholarly writing sample.

Acceptance into the M.S. Health and Movement Sciences program is competitive and not guaranteed.

Students are restricted to twelve semester hours of transfer credit from other institutions and limited to a maximum of nine semester hours taught at the 500 level.

Graduation Requirements

Completion of one of the following approved by your academic advisor:

(1) ESS 681 Thesis

(2) oral presentation of ESS 660 Internship & pilot research project

(3) graduate project

Course Requirements

Code	Title	Credit Hours
ESS 621	Adv Exercise Physiology I	3
ESS 670	Research Meth in Kinesiology	3
HS 535	Biomech Instrument MatLab	3
HS 566	Biomechanical Analysis	3
HS 610	Adv Biomechanics	3
HS 615	Kinematic Analysis App Biomech	3
HS 635	Kinetics in Biomech	3
HS 650	Human Gait	3
STA 518	Biostatistics	3
Restricted Elective		3
ESS 681	Thesis	6
or ESS 660	Internship	
Total Credit Hours		**36**

Plan of Study

First Year

First Semester		**Credit Hours**
ESS 670	Research Meth in Kinesiology	3
HS 615	Kinematic Analysis App Biomech	3
HS 635	Kinetics in Biomech	3
	Credit Hours	**9**
Second Semester		
HS 535	Biomech Instrument MatLab	3
Restricted Elective		3
STA 518	Biostatistics	3
	Credit Hours	**9**
Second Year		
First Semester		
HS 566	Biomechanical Analysis	3
ESS 621	Adv Exercise Physiology I	3
HS 681 Thesis or HS 660 Internship		3
	Credit Hours	**9**
Second Semester		
HS 610	Adv Biomechanics	3
HS 650	Human Gait	3
HS 681 Thesis or HS 660 Internship		3
	Credit Hours	**9**
	Total Credit Hours	**36**

Communication Disorders, M.S.

Program Description

The graduate program of the Department of Communication Disorders is accredited by the Council on Academic Accreditation (CAA) of the American Speech-Language-Hearing Association. The Department of Communication Disorders offers a Master of Science degree.

Communication Disorders majors at the graduate level follow a prescribed program leading to eligibility for national certification in Speech-Language Pathology by the American Speech-Language-Hearing Association and licensure by the West Virginia Board of Examiners for Speech-Language Pathology and Audiology. Students wishing to be eligible for West Virginia certification as public school speech-language pathologists must also meet the requirements for such certification. Information regarding licensure in other states can be found on the department's webpage.

Admission Requirements

Applicants should follow the admissions process described in this catalog.

The Department of Communication Disorders at Marshall University is participating in the central application system known as CSDCAS. Applicants will apply online using the CSDCAS application. To learn more about the CSDCAS application process, visit https://www.csdcas.org/.

Completed applications along with all supporting materials, including official transcripts with courses and grades from the preceding term, must be received by the January 15 deadline to receive priority consideration for admission the following fall. Official transcripts must be received by CSDCAS by January 15 for priority consideration. In addition, applicants must also meet the requirements below:

1. An undergraduate degree (or pending degree) in Communication Disorders from an accepted, accredited institution is required. Students with deficits in undergraduate coursework, or those wishing public school certification, may need to complete additional requirements. Applicants must submit their most recent transcript, including grades for the fall semester that precedes the application deadline. Students admitted to the graduate program will be required to submit final, official transcripts following completion of the undergraduate degree.
2. Applicants with an undergraduate degree in a field other than communication disorders will be required to take foundational/leveling-up courses. Courses which are required include:
   a. CD 101 : Introduction to Communication Disorders
   b. CD 228: Language and Speech Development
   c. CD 239: Phonetics
   d. CD 229: Anatomy and Physiology of the Speech and Hearing Mechanism
   e. CD 322: Developmental Speech Disorders
   f. CD 328: Developmental Language Disorders
   g. CD 460: Audiology
   h. CD 427: Therapeutics (with 25 hours of observation)
3. An Overall and Communication Disorders Grade Point Average of at least 3.0 on a 4.0 scale is required for full-time admission. A student may be admitted for provisional enrollment with an overall or Communication Disorders GPA between 2.5 - 3.0 when the applicant possesses a degree and shows academic promise but does not meet the criteria for full admission. Refer to the Graduate College for further explanation of "provisional enrollment."
4. All applicants must submit a personal statement or letter of intent.
5. All applicants must have three individuals, each of whom can comment on the applicant's academic and/or clinical performance and potential, submit letters of recommendation. At least one letter must be from one of the applicant's classroom instructors in communication disorders or other relevant field of study.
6. All completed applications which are "verified" via CSDCAS are reviewed on an ongoing basis in the spring semester each year. Generally, the program receives more applications than exists capacity, therefore, the selection process is competitive.
7. Qualified applicants will be invited to participate in a formal interview with faculty during the spring semester.

Note: Applicants who are selected by the program will receive further instructions from the Communication Disorders Graduate Program Director regarding formal application to Marshall University Graduate College. All admissions are term specific.

International applicants will be required to submit an official Test of English as a Foreign Language (TOEFL) score or an International English Language Testing System (IELTS) score in addition to the other requirements described for consideration. The minimum TOEFL scores to be considered for admission must be a Total Score of 105 with the minimum section requirement of "Speaking" of 26; an IELTS score of 7.5 with at least 7.5 on the speaking and listening segment is required. The English requirement is waived for applicants who hold a bachelor's degree from an accepted, accredited college or university in the United States.

International applicants who hold a bachelor's degree from a college or university outside of the United States must complete their credential evaluation WES International Credential Advantage Package (ICA) from the World Education Services (WES) and have the report sent to CSDCAS. Official or attested transcripts, diplomas and/or other required credentials from all foreign institutions attended may also be required by the Marshall University International Admissions Office, for the determination of GPA, degree level, and course equivalencies. For additional information, visit https://www.marshall.edu/admissions/international/.

Early Assurance Program

The Marshall University Master of Science in Communication Disorders allows high school seniors to apply for acceptance to the Communication Disorders Master of Science Early Assurance program. Successful applicants will have guaranteed admission pending completion of all undergraduate requirements and meeting all Communication Disorders M.S. admission requirements.

Deadlines

- Applications for Early Assurance Program Open: September 15 of the student's high school senior year.
- Early Assurance Application Deadline: January 15 of the student's high school senior year.
- Letters of Recommendation/Official Transcript/ACT or SAT Score Report Deadline: January 15 of the student's high school senior year.
- Interviews for the MUCD Early Assurance Program (required): March through April.

Admission Requirements

This program is designed for highly motivated high school students (in-state or out-of-state) who want to become speech-language pathologists and have achieved the following criteria:

Minimum composite ACT score of 25 **or** SAT composite score of 1200. Super scores permitted. (The ACT Super score takes the average of the

four best subject scores from each ACT test attempt and counts it as your official score).

- Cumulative high school GPA of 3.5 on a 4.0 scale
- Personal Essay
- Two letters of reference/recommendation from high school teachers
- Invitation for on-campus interview between March and April with the Marshall University Communication Disorders Early Assurance Committee

Continuing Requirements

- Students must declare an undergraduate major in Communication Disorders
- Students may consider two curricular options, (3yr+2yr or 4yr +2yr). Students who begin their freshman year with 20-24 hours of college credit may be considered for a 3yr+2yr curriculum. A 4yr+2yr track allows for a traditional four-year undergraduate experience before entering the graduate program
- Students must maintain a 3.5 GPA each semester (CD and overall)
- Must achieve a cumulative GPA of 3.5 on a 4.0 scale in all prerequisite courses. Follow this link for more details **https://www.marshall.edu/communication-disorders/undergraduate/**.
- Students should complete at least 25 hours of clinical observation by the end of their senior year
- Students must meet all regular Communication Disorders M.S admission requirements

Application Process

- Students must apply and be accepted into the undergraduate program and declare a major at Marshall University prior to applying to the MUCD Early Assurance Program
- Students must complete the Early Assurance Program application which can be found on the department's webpage no later than January 15. Within the application students will be asked to submit:
    1. Application form
    2. Essay detailing why the student wishes to pursue a degree in communication disorders
    3. Official high school transcripts
    4. ACT or SAT scores
    5. Two letters of recommendation from high school teachers who have had the applicant in class and are familiar with the applicant's academic performance
- Students should also send formal high school transcripts and ACT/SAT scores to Marshall University.
- Students should be aware that an incomplete application package could negatively impact the selection process.
- Applicants will be reviewed by the MUCD Early Assurance Committee.
- All applicants will be notified in writing if they have been selected for an interview by the end of April.
- Finalists will be required to participate in an on-campus interview.
- The MUCD Admissions Committee will select the applicants who will be accepted into the program.
- During the last year of the student's undergraduate program, they must submit an application for admission to the CD M.S. program and meet all CD MS admission requirements.

Program Features

- Personal advising by faculty in the Department of Communication Disorders in addition to College of Health Professions advising.
- Mentoring from a current graduate student in Communication Disorders
- Access to programming and activities that provide a firsthand look into the field of speech-language pathology
- Early clinical shadowing experience across multiple professions for an interprofessional experience

Program Requirements

The six-semester (two-year) graduate program is comprised of 36 graduate academic credit hours in addition to 18 graded and 6 CR/NC clinical practicum hours. Academic courses are sequenced to assist students with development of specific knowledge and skill sets. Faculty with extensive clinical expertise assist students as they link academic, research and clinical experiences.

The student and advisor will develop a Plan of Study or blueprint for graduation requirements. If a student has any transfer courses (up to 12 transfer credits may be allowed), a completed Application for Approval to Transfer Graduate Credit to this Plan of Study must be attached. Your advisor or other designee at the Graduate Studies office MUST approve in writing any change in coursework or completion date on this Plan of Study.

A GPA of 3.0 in graduate work is required for graduate students to be considered students in good standing in the program and in the Graduate School, to be admitted to candidacy, and to graduate. To ensure that students have maximal opportunity to achieve and maintain a graduate 3.0 average, graduate course load limits may be placed on students who earn less than a 3.0 during any semester of graduate work. These course load limits may be lifted when the student earns a 3.0 for a semester of graduate work but may be reapplied if the student's work drops below a 3.0 for any subsequent semester. Additional course load restrictions may be applied to students who earn a GPA of less than 3.0 for two or more semesters of work.

Students will construct a comprehensive portfolio demonstrating their acquisition of knowledge and skills required by the Council for Clinical Certification in Audiology and Speech Language Pathology. A score of 80% on the portfolio and a score of 80% on the oral defense of the portfolio is required for graduation. Students are also required to take the Speech Language Pathology specialty area exam of the ETS Praxis Series prior to graduation.

Students should consult the department chair, their Communication Disorders academic advisor, and the Graduate Handbook and Clinic Handbook regarding all academic and clinical requirements and standards specific to the program.

Thesis Option

Students in the department may elect the thesis option which will be documented on the Plan of Study. If a student elects this option, the student, in conjunction with their advisor, will amend six hours of course requirements. The student will still be responsible for meeting

the knowledge and skills outcomes for those courses. A candidate who writes a thesis will be required to pass an oral examination on the thesis in addition to constructing a comprehensive portfolio with a score of 80%, and taking the Speech Language Pathology Praxis Exam.

The thesis is approved by the major professor and the thesis committee, as well as a final review by the Graduate Studies office or other designee. The thesis must be accepted by the Graduate Studies office or other designee by the published deadline. Please note that IRB approval is required for all theses.

Required Courses

Code	Title	Credit Hours
CD 570	Clinical Practicum I	3
CD 570L	Intro Clinical Principles	1
CD 601	Intro to Graduate Studies	3
CD 602	Counseling in CSD	2
CD 624	Foundations Neuro Comm Dis	3
CD 571	Clinical Practicum II	3
CD 571L	Clin Prin of Assessment	1
CD 622	Phonological Disorders	3
CD 625	Acquired Aphasia	3
CD 629	Chld Lang Dis: Sch/Adoles	3
CD 628	Child Lang Dis: Inf/Presch	3
CD 691	Dysphagia & Assoc Motor Sp Dis	3
CD 630	Cognitive Comm Disorders	3
CD 660	Augment Alternative Comm	2
Students register for 3 1-hour sections of CD 670		3
CD 670	Advanced Clinical Practicum I [1]	
CD 670	Advanced Clinical Practicum I	
CD 670	Advanced Clinical Practicum I	
Students register for 2, 1-hour sections of CD 670L		2
CD 670L	Clin ISS In Health Care [1]	
CD 670L	Clin ISS In Health Care	
Students register for 3 1-hour sections of CD 674		3
CD 674	Clin Pract in the Schools [1]	
CD 674	Clin Pract in the Schools	
CD 674	Clin Pract in the Schools	
Students register for 2 1-hour sections of CD 674L		2
CD 674L	Consideration in Public School [1]	
CD 674L	Consideration in Public School	
CD 620	CD: Cleft Palate & Voice	3
CD 623	Fluency Disorders	3
CD 692	Ped Feeding & Swallowing Dis	2
Students register for 3 1-hour sections of CD 675		3
CD 675	Advanced Clin Pract II	
CD 675	Advanced Clin Pract II	
CD 675	Advanced Clin Pract II	
Students register for 3 1-hour sections of CD 675L		3
CD 675L	Prof Considerations	
CD 675L	Prof Considerations	
CD 675L	Prof Considerations	
Total Credit Hours		**60**

[1] CD 670/670L and 674/674L are offered in the fall and spring. Students will enroll in one of these clinical courses in Fall II and one in Spring II.

Plan Of Study

First Year

Fall		Credit Hours
CD 601	Intro to Graduate Studies	3
CD 624	Foundations Neuro Comm Dis	3
CD 628	Child Lang Dis: Inf/Presch	3
CD 570	Clinical Practicum I (taken 3 times for 1 hr each)	3
CD 570L	Intro Clinical Principles	1
	Credit Hours	**13**
Spring		
CD 622	Phonological Disorders	3
CD 625	Acquired Aphasia	3
CD 691	Dysphagia & Assoc Motor Sp Dis	3
CD 571	Clinical Practicum II (taken 3 times for 1 hr each)	3
CD 571L	Clin Prin of Assessment	1
	Credit Hours	**13**
Summer		
CD 629	Chld Lang Dis: Sch/Adoles	3
CD 692	Ped Feeding & Swallowing Dis	2
	Credit Hours	**5**

Second Year

Fall		
CD 660	Augment Alternative Comm	2
CD 630	Cognitive Comm Disorders	3
CD 602	Counseling in CSD	2
CD 670	Advanced Clinical Practicum I (taken 3 times for 1 hr each)	3
CD 670L	Clin ISS In Health Care (taken 2 times for 1 hr each)	2
	Credit Hours	**12**
Spring		
CD 623	Fluency Disorders	3
CD 620	CD: Cleft Palate & Voice	3
CD 674	Clin Pract in the Schools (taken 3 times for 1 hr each)	3
CD 674L	Consideration in Public School (taken 2 times for 1 hr each)	2
	Credit Hours	**11**
Summer		
CD 675	Advanced Clin Pract II (taken 3 times for 1 hr each)	3

CD 675L	Prof Considerations (taken 3 times for 1 hr each)	3
	Credit Hours	**6**
	Total Credit Hours	**60**

Dietetics, M.S.

Program Description

The mission of the Master of Science degree program is to prepare graduates to practice in entry-level professional positions in the fields of clinical nutrition, community nutrition, and/or food and nutrition management. The program offers a unique opportunity to dietetics professionals in southern West Virginia. It is open to persons who have completed a bachelor's degree in dietetics at an accredited institution or are currently a Registered Dietitian.

Admission Requirements

Prospective students who wish to apply for admission to the master's degree program must meet the admission requirements, described in detail at www.marshall.edu/dietetics (http://www.marshall.edu/dietetics/). Admission is competitive.

The following standards are used to made admission decisions:

- Completion of a Didactic Program in Dietetics. Admitted students are required to provide a Verification Statement and transcript with final degree confirmation prior to beginning program.
- A minimum cumulative GPA of 3.0 (on 4.0 scale) is preferred.
- A personal statement of 1000 words or less
- Documented volunteer or paid work experience in foodservice and/or nutrition care is preferred.
- Three letters of recommendation
- Completion of an online personal interview

For further information about any of these items, including personal statement guidelines and interview instructions, please consult the admission section of the website at www.marshall.edu/dietetics.

Application to Marshall University's Master of Science degree is completed through a centralized application system known as DICAS. Applicants will apply online using the DICAS application. To learn more about the DICAS application process visit https://dicas.liaisoncas.com/applicant-ux/#/login. If a student is admitted, he or she will receive further instructions from the program director regarding formal application to the graduate program through Marshall University Graduate Admissions.

Students pursuing the distance track should consult the distance program admission information on the website, www.marshall.edu/dietetics, for additional requirements related to rotation schedules, preceptors, and information on state eligibility for distance education through Marshall University.

Any other prospective students must currently hold the status of Registered Dietitian through the Commission on Dietetic Registration or a Verification Statement from an accredited DPD program. Admission of Registered Dietitians will be handled on a case-by-case basis by the department. Those holding Verification Statements can be conditionally admitted for one semester. Full admission will be contingent on acceptance. Both types of potential students should follow the admissions process described in this catalog or at the Graduate Admissions website at www.marshall.edu/graduate/admissions/how-to-apply-for-admission (http://www.marshall.edu/graduate/admissions/how-to-apply-for-admission/).

For more information on international student requirements, visit http://www.marshall.edu/graduate/admissions/international-admission/.

Program Requirements

The degree consists of a total of 36 graduate credit hours. Thirty-three hours consist of required coursework (11 courses) and 3 hours consist of elective credits, which must be approved by the advisor. Required courses are as follows:

Code	Title	Credit Hours
DTS 508	Nutrition Cardiac Disease	3
DTS 670	Adv Med Nutrition Therapy I	3
DTS 671	Sports Nutrition	3
DTS 672	Diabetes & Nutrition Mngt	3
DTS 673	Administrative Dietetics	3
DTS 674	Food Allergies & Intoler	3
DTS 675	Dietetic Internship I	3
DTS 676	Dietetic Internship II	3
DTS 677	Dietetic Internship III	3
DTS 679	Adv Med Nutrition Therapy II	3
DTS 690	Sem DTS Research Comm	3

- All students will be required to sit for a written and oral comprehensive examination in their final semester and must pass in order to graduate. The exam will be administered by a graduate committee consisting of three graduate faculty members.
- In addition to the requirements listed in Marshall University's standards for good standing, a student pursuing a degree in Dietetics will maintain a GPA of 3.0 or higher and receive a score of satisfactory or better on all preceptor evaluations, when applicable.

Students who successfully complete the program will receive a verification statement and be eligible to sit for the registration examination for Registered Dietitian Nutritionists.

Plan of Study

The student will develop a Plan of Study or blueprint for graduation requirements, which must be approved by the student's advisor, The Plan of Study must be on file in the Graduate Studies office before the student registers for the 12th semester hour. A typical plan will consist of the following:

First Year		
Fall		**Credit Hours**
DTS 670	Adv Med Nutrition Therapy I	3
DTS 672	Diabetes & Nutrition Mngt	3
DTS 675	Dietetic Internship I	3
DTS 690	Sem DTS Research Comm	3
	Credit Hours	**12**
Spring		
DTS 671	Sports Nutrition	3

DTS 673	Administrative Dietetics	3
DTS 676	Dietetic Internship II	3
DTS 679	Adv Med Nutrition Therapy II	3
Approved elective		3
	Credit Hours	**15**
Summer		
DTS 508	Nutrition Cardiac Disease	3
DTS 674	Food Allergies & Intoler	3
DTS 677	Dietetic Internship III	3
	Credit Hours	**9**
	Total Credit Hours	**36**

Exercise Physiology, M.S.

The Exercise Science major, within the School of Health and Movement Sciences (SHMS) is a multidisciplinary field of study involving the understanding of the active human body in the areas of anatomy, physiology, metabolism, and human kinetics. Students in the Exercise Science major will learn foundational sciences and critical thinking skills to apply the practical approaches and programming of exercise for health and disease, fitness and sport across the lifespan. This program prepares students for professional careers like the following settings (but not limited to):

- Hospital/ Medical Fitness Centers
- Clinical Rehabilitation Centers (i.e. Cardiopulmonary rehabilitation)
- University / Industry Research Laboratories
- Collegiate and Professional Sports
- Athletic Performance Centers
- Fitness and Wellness Centers
- Weight Management and Metabolism Programs
- Fitness and Sales Industries

Students enrolled in the Marshall University Exercise Science major have the opportunity to obtain hands-on experiences outside and inside the classroom with health and disease, fitness and sport testing and interpretation within our state-of-the-art Exercise Physiology Laboratories (MUEPL **(**https://www.marshall.edu/exercise-science/muepl/**)**) and the Diabetes and Cardiometabolic Exercise Center (DCEC **(**https://www.marshall.edu/exercise-science/cepl/**)**). Internship or Graduate Assistant opportunities involve working with community members in the Diabetes and Cardiometabolic Exercise Center or with general populations and athletes in the Human Performance Lab (MUEPL **(**https://www.marshall.edu/exercise-science/muepl/**)**).

Marshall University Exercise Science students are well-prepared for premier certifications through the American College of Sports Medicine (ACSM) **(**https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fcertification.acsm.org%2F&data=05%7C02%7Cmcilvain2%40marshall.edu%7Cd64f6faf468843315e9608dd3f0c4498%7C239ab2783bba4c78b41d8508a541%7CTWFpbGZsb3d8eyJFbXB0eU1hcGkiOnRydWUsIlYiOiIwLjAuMDAwMCIsIlAiOiJXaW%3D%3D%7C0%7C%7C%7C&sdata=AxbRVNSBRqKmfZejGbOgEEHWo7cTsqbxSXtEExX9NxI%3D&reserved=0**)** and the National Strength and Conditioning Association (NSCA) **(**https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.nsca.com%2FCSCS_Certification_2%2F&data=05%7C02%7Cmcilvain2%40marshall.edu%7Cd64f6faf468843315e9608dd3f0c4498%7C239ab2783bba4c78b41d8508a541%7CTWFpbGZsb3d8eyJFbXB0eU1hcGkiOnRydWUsIlYiOiIwLjAuMDAwMCIsIlAiOiJXaW%3D%3D%7C0%7C%7C%7C&sdata=HcNqaSRUKkP2PmFBZm0AuHuICLBwo8sZ2m%2FFrb9nz5o%3D&reserved=0**)**.

Admission Requirements

Prospective students must meet the minimum criteria listed below to be considered for admission to the program:

- Admission to Marshall University Graduate School,
- Declare a Health and Movement Sciences major of biomechanics, exercise physiology, sports science, or strength and conditioning,
- An Undergraduate Grade Point Average of 2.75 or higher on a 4.0 scale for all previously completed undergraduate university work,
- An appropriate undergraduate/graduate background that includes human anatomy, human physiology, exercise physiology, and physics,
- Three letters of reference;
- Personal statement; and
- A scholarly writing sample.

Acceptance into the M.S. Health and Movement Sciences program is competitive and not guaranteed.

Students are restricted to twelve semester hours of transfer credit from other institutions and limited to a maximum of nine semester hours taught at the 500 level.

Graduation Requirements

Completion of one of the following approved by your academic advisor:

(1) ESS 681 Thesis

(2) oral presentation of ESS 660 Internship & pilot research project

(3) graduate project

Course Requirements

Code	Title	Credit Hours
ESS 578	Exercise Metabolism	3
ESS 601	Adv Exercise Testing	3
ESS 621	Adv Exercise Physiology I	3
ESS 623	Adv Ex Phys II	3
or ESS 644	Cardio Exer Physiol	
ESS 670	Research Meth in Kinesiology	3
ESS 682	Prev & Rehab Physiology	3
ESS 683	Cardiovascular Assessment	3
BSC 517	Biostatistics	3
or STA 518	Biostatistics	
Restricted Electives		6
ESS 681	Thesis	6
or ESS 660	Internship	
Total Credit Hours		**36**

Plan of Study

First Year		
First Semester		**Credit Hours**
ESS 621	Adv Exercise Physiology I	3
ESS 670	Research Meth in Kinesiology	3
Statistics BSC 517 or STA 518 or other equivalent		3
	Credit Hours	**9**
Second Semester		
ESS 578	Exercise Metabolism	3
ESS 601	Adv Exercise Testing	3
ESS 683	Cardiovascular Assessment	3
	Credit Hours	**9**
Second Year		
First Semester		
ESS 644	Cardio Exer Physiol	3
ESS 681 Thesis or ESS 660 Internship		3
ESS 623	Adv Ex Phys II	3
	Credit Hours	**9**
Second Semester		
Restricted Elective		3
ESS 681 Thesis or ESS 660 Internship		3
ESS 683 Cardiovas. Assessment or ESS 682 Prevention Rehab or Restricted Elective		3
	Credit Hours	**9**
	Total Credit Hours	**36**

Family Nurse Practitioner Program, Post Master's Certificate

Contacts: Dr. Rebecca Appleton
Location: 420 Prichard Hall
Telephone: 304-696-2632
Website: appleto1@marshall.edu

Program Description

The purpose of the Post Master's Certificate in Family Nurse Practitioner program is to prepare nurses who have a Master of Science in Nursing degree as family nurse practitioners. The graduates of this program are eligible to take the American Nurses' Credentialing Center Certification Examination for Family Nurse Practitioners and/or American Academy of Nurse Practitioners Certification Examination for Adult and Family Nurse Practitioners.

Admission Requirements

This program is Fall admission only. Applicants should follow the admissions process described in this catalog or at the Graduate Admissions website at www.marshall.edu/graduate/admissions/how-to-apply-for-admission (http://www.marshall.edu/graduate/admissions/how-to-apply-for-admission/).

Students must also submit a separate application to the MSN program at www.marshall.edu/nursing/degrees/marshall-university-master-of-science-in-nursing/admission/ (https://www.marshall.edu/nursing/degrees/marshall-university-master-of-science-in-nursing/admission/).

The FNP track requires a GPA of 3.0 for admission into the program.

In addition: The Post Master's Certificate program is available to a limited number of qualified applicants. Admission is determined on a competitive basis. Applicants must meet the following minimum requirements.

1. Master of Science in Nursing from an ACEN- or CCNE-accredited program. Applicants who are graduates of programs outside the ACEN or CCNE jurisdictions will be evaluated on an individual basis.
2. Evidence of a current unencumbered license as a registered nurse in a U.S. jurisdiction. Verification form is included in the MSN application package.

First Year		
Fall		**Credit Hours**
NUR 623	Adv Pathophysiology	3
NUR 630	Advanced Pharmacology	4
	Credit Hours	**7**
Spring		
NUR 625	Advanced Physical Assessment	3
	Credit Hours	**3**
Second Year		
Fall		
NUR 627	Advanced Family Nursing 1	5
	Credit Hours	**5**
Spring		
NUR 628	Advanced Family Nursing II	5
	Credit Hours	**5**
Summer		
NUR 629	FNP Summer Practicum	3
	Credit Hours	**3**
Third Year		
Fall		
NUR 635	FNP Practicum	7
	Credit Hours	**7**
	Total Credit Hours	**30**

Gerontology Social Work, Graduate Certificate

The graduate Certificate program in Gerontology Social Work is a practice-focused course of study that prepares graduate social work students and professional practitioners who already have graduate degrees to work in a variety of aging-related settings. The field of Gerontology Social Work is multi-disciplinary, drawing on the best science and practice applications from a number of areas including biology, sociology, social work, health, and economics to meet the needs of the rapidly aging population. The field of Gerontology Social Work teaches students how to apply evidence-based practice to increase understanding of the aging process and the lives of older adults.

The certificate provides the latest evidence-based methodologies on assessing the needs and challenges of community dwelling older adults as well as on elders living in long-term care settings. Adding the gerontology social work certificate to existing educational and work experiences is likely to enhance an individual's career opportunities and options.

Applicants must meet the admissions standards of Marshall University's graduate admissions and the M.S.W. program in the department of Social Work. Eligibility for admission to the Graduate Certificate in Gerontology Social Work is limited to those holding a graduate degree from an accredited educational institution or actively pursuing a graduate degree at Marshall University.

Code	Title	Credit Hours
SOC 640	Problems Aging Society	3
SWK 660	Social Gerontology	3
SWK 653	Adv Field Practicum	3
SWK 700	Aging and End of Life Issues	3
CULS 610	Seminar in Appalachian Culture	3
Select one from the following:		3
CULS 611	Appal Std: Themes & Voices	
CULS 612	Time & Place in Appalachia	
Total Credit Hours		**18**

Nursing Practice, D.N.P.

Program Description

The Marshall University Post Master's Doctor of Nursing Practice (PM-DNP) Program prepares advance practice nurses to practice at the highest level of professional nursing. Students will experience customized learning during online asynchronous courses. Additionally, students will complete a Evidence Based Practice (EBP) project in a professional site of their choosing in a face-to-face environment.This expert level of practice builds on past advanced practice education, experience, and certification. The Evidence Based Practice project provides the basis for developing competence in the translation of evidence into practice and better healthcare.

Marshall University offers a PM-DNP option that is 36 credit hours. Applicants to the program must be graduates of a nationally accredited Master of Science in Nursing. Completion of a evidence-based practice (EBP) project is required for program completion.

Application Deadlines

Applicants for the Doctor of Nursing Practice are considered for admission for fall semesters only, and all required application materials must be received in the Graduate Admissions office and the PM-DNP program prior to application review. Applicants are encouraged to apply as early as possible with applications being reviewed on a rolling basis until August 1. Applications may be reviewed after August 1 if capacity remains.

Admission Requirements for the Post-Master's DNP Program

All applications are holistically reviewed based on the completed application package.

The PM-DNP program does not accept transfer credits from other institutions; accordingly, 100% of the credits for the PM-DNP degree will be earned at Marshall University.

The PM-DNP program is available to a limited number of qualified applicants. Admission is determined on a competitive basis. To be eligible for initial consideration for admission to the program, applicants must submit a completed application with all the following elements directly to Graduate Admissions:

1. Completed Marshall University Graduate Application
2. Non-Refundable graduate application fee.
3. Official transcript from all post-secondary education programs attended.
4. Official transcripts with degree posted, documenting a master's degree in nursing from an accepted, accredited institution with a professionally accredited nursing program.

The following materials should be submitted directly to the PM-DNP program:

1. Verification of a master's degree in nursing program with certification as Nurse Practitioner. Verification of a Master's degree in nursing with focus in nursing education or nursing administration/leadership programs are also eligible for admission.
2. Evidence of required cumulative GPA of 3.0 or higher on a 4.0 scale for the master's degree.
3. Evidence of a current unencumbered license as a Registered Nurse.
4. Evidence of both RN and APRN licensure if applicable in the jurisdiction where the applicant plans to complete the PM-DNP clinical hours (EBP Project).
5. Two Professional References.
6. Current professional resume or curriculum vitae (CV).
   a) Should include education, work and volunteer activities, licenses, and other certifications, awards, professional organization, etc.
7. Statement of professional goals.
   a. Describe reasons for applying to the PM-DNP program, speak to the specific areas of interest and potential ideas for EBP project.

Successful applicants are not fully admitted to the PM-DNP program until they provide the following:

a. Successful completion of background check from agency approved by the program.

b. Successful completion of drug screen from agency approved by the program.

c. Documentation of immunizations required by the program including hepatitis panel, influenza vaccine, covid vaccine, and TB. A CPR (both didactic and hands-on skill performance) care is required.

Application Materials Required for the PM-DNP Program

Applicants for the PM-DNP program must submit the documentation to Graduate Admissions office and to the PM-DNP program, as outlined above, to be considered for admission.

Program Requirements

The student and advisor will develop a Plan of Study (POS) or blueprint for graduation requirements. The Plan of Study must be on file in the Graduate Studies office before the student registers for the 12th credit hour.

- A student must obtain a "B" or above In all PM-DNP courses to successfully pass the course.
- A student is permitted to repeat one nursing course in which a "C" is obtained, and the student may repeat the course once and must earn at least a "B". If the student earns another "C" in another nursing course, the student will be dismissed from the PM-DNP program.
- If a student needs to withdraw from any or all courses in a semester, the student must meet with their faculty advisor, course faculty and program director.
- All students must have a 3.00 GPA in their major to graduate and receive PM-DNP degree.
- Any student dismissed from the program will not be re-admitted.
- All students must complete a minimum of 540 clinical hours (EBP project) to graduate.
- All students have 7 years to complete the PM-DNP program starting with the first PM-DNP nursing course.
- Students must comply with all agency requirements in completion of course/clinical/PM-DNP EBP project hours.

Course Requirements

Code	Title	Credit Hours
Required courses for completion of the PM-DNP Program:		
NUR 700	Scholarly Writing	3
NUR 702	Hlth Prom and Pop Hlth	3
NUR 704	Leadership Role	3
NUR 706	Health Systems Policy	3
NUR 708	Information Systems	3
NUR 710	Quality Improvement	3
NUR 712	Biostats and Epidemiology	3
NUR 714	Evidence Based Practice	3
NUR 800	DNP Project I	3
NUR 804	DNP Project II	3
NUR 808	DNP Project III	3
NUR 812	DNP Project IV	3

Plan of Study

Note: NUR 785 and/or NUR 786 Independent Study courses are optional and are designed to provide the scope and structure for clinical activities for those students who need additional clinical hours for PM-DNP Program requirements, for projects a student may be completing during the PM DNP program, or for Evidence Based Practice project completion.

Full-Time

First Year		
Fall		**Credit Hours**
NUR 700	Scholarly Writing	3
NUR 702	Hlth Prom and Pop Hlth	3
NUR 710	Quality Improvement	3
	Credit Hours	**9**
Spring		
NUR 704	Leadership Role	3
NUR 706	Health Systems Policy	3
NUR 800	DNP Project I	3
	Credit Hours	**9**
Summer		
NUR 708	Information Systems	3
NUR 804	DNP Project II	3
NUR 785	Independent Study [1]	3
	Credit Hours	**9**
Second Year		
Fall		
NUR 712	Biostats and Epidemiology	3
NUR 808	DNP Project III	3
NUR 786	Independent Study (Can be taken in Spring instead) [1]	3
	Credit Hours	**9**
Spring		
NUR 714	Evidence Based Practice	3
NUR 812	DNP Project IV	3
	Credit Hours	**6**
	Total Credit Hours	**42**

Part-Time Three-Year Plan

(Four-year or five-year part-time options are available)

First Year		
Fall		**Credit Hours**
NUR 700	Scholarly Writing	3
NUR 702	Hlth Prom and Pop Hlth	3
	Credit Hours	**6**
Spring		
NUR 704	Leadership Role	3
NUR 706	Health Systems Policy	3
	Credit Hours	**6**
Summer		
NUR 708	Information Systems	3
NUR 785	Independent Study [1]	3
	Credit Hours	**6**
Second Year		
Fall		
NUR 710	Quality Improvement	3
NUR 712	Biostats and Epidemiology	3

NUR 786	Independent Study (Can be taken in Spring instead) [1]	3
	Credit Hours	**9**
Spring		
NUR 714	Evidence Based Practice	3
NUR 800	DNP Project I	3
	Credit Hours	**6**
Summer		
NUR 804	DNP Project II	3
	Credit Hours	**3**
Third Year		
Fall		
NUR 808	DNP Project III	3
	Credit Hours	**3**
Spring		
NUR 812	DNP Project IV	3
	Credit Hours	**3**
	Total Credit Hours	**42**

Nursing, M.S.N.

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Program Description

The purpose of this program is to prepare graduates for advanced practice nursing, as family nurse practitioners, nurse educators, or nurse managers. In collaboration with Shenandoah University, the program offers students the opportunity to become nurse midwives (NM) or psychiatric mental health nurse practitioners (PMHNP).

Coursework in the Master of Science in Nursing program incorporates the classroom, laboratory, and clinical modes of instruction. All nursing students have experiences with rural and/or underserved populations as part of the state initiatives for primary health care. The Master of Science in Nursing program requires the completion of a minimum of 42 credit hours and 750 clinical hours for the family nurse practitioner (MSN-FNP) area of emphasis, 36 credit hours for the nursing administration (MSN-NA) and nursing education (MSN-NE) areas of emphasis, 26 credits and 720 clinical hours for the nurse-midwifery (MSN-NM) area of emphasis, and 29 credits and 600 clinical hours for psychiatric mental health nurse (MSN-PMHNP) practitioners.

Certifications

Upon successful completion of the MSN-FNP program, graduates are eligible to take the American Academy of Nurse Practitioners Certification Board (AANPCB) for Adult and Family Nurse Practitioners and/or the American Nurses' Credentialing Center (ANCC) Certification for Family Nurse Practitioners. Graduates of the MSN-NA program are eligible to take the ANCC Certification Examination for Nursing Administration or Nursing Administration Advanced, depending on their experience and stage of professional development. Graduates of the Nursing Education (MSN-NE) program are eligible to take the National League for Nursing Certified Nurse Educator Examination (CNE). Nurse-Midwifery (MSN-NM) graduates are eligible to take the American Midwife Certification Board Exam. MSN-PMHNP graduates are eligible to take the ANCC Family Psychiatric Mental Health Nurse Practitioner Certification Exam.

The M.S.N. program's purpose is achieved through three program components.

1. The core component (12 credits) focuses on knowledge and skills related to nursing theory, advanced nursing research, leadership, and health care issues.
2. The area of emphasis component (18 to 33 credits) allows the student to specialize in a particular area. The family nurse practitioner area of emphasis (30 credits) provides students with the opportunity to develop competency as a family nurse practitioner. The nursing administration area of emphasis (18 credits) provides students with the opportunity to acquire knowledge and skills necessary to administer/manage rural/underserved primary care agencies, home health care, and other health care agencies or units. The nursing education area of emphasis (21 credits) gives the student the opportunity to gain the knowledge and skills necessary to be a nurse educator. The nurse-midwifery area of emphasis (26 credits) provides knowledge and skills to practice as a nurse-midwife. The psychiatric mental health nurse practitioner provides the student the opportunity to develop competency as psychiatric mental health nurse practitioner (29 credits).
3. The elective component (3-6 credits) allows students to choose one of two options:
    1. role development courses in teaching, or
    2. elective courses related to the student's area of interest.

The M.S.N. program must be completed in a period not to exceed 7 calendar years from the date of first class enrollment.

Accreditation

The Master of Science in Nursing program is accredited by the Accreditation Commission for Education in Nursing, Inc., 3390 Peachtree Road NE, Suite 1400, Atlanta, GA 30326; phone, 404-975-5000; fax, 404-975-5020; Web, www.acenursing.org (http://www.acenursing.org).

Admission Requirements

Applicants should follow the admissions process described in this catalog or at the Graduate University Admissions website: www.marshall.edu/admissions/apply/ (https://www.marshall.edu/admissions/apply/).

Students must also submit a separate application to the M.S.N. program, which is linked at: www.marshall.edu/nursing/degrees/marshall-university-master-of-science-in-nursing/admission/ (https://www.marshall.edu/nursing/degrees/marshall-university-master-of-science-in-nursing/admission/).

Application Deadlines for the M.S.N. program by Track:

1. Online Nursing Administration Track (MSN- NA)
2. Online Nursing Education Track (MSN- NE)

Applications to these program tracks **(MSN-NA, MSN-NE)** are on a rolling admission basis. Applications are reviewed in the order in which they become complete with all supporting materials. This process will continue until the class is filled; therefore, it benefits applicants

to complete their applications early. Completed applications will be accepted no later than December 1st for the Spring semester and August 1st for the Fall semester. At present we are using the Liaison Nursing CAS System for admission for the Online Nursing Administration and Online Nursing Education programs. **Required for admission is an overall undergraduate GPA of 2.5 or greater on a 4.0 scale.**

1. Students applying to the Online Nursing Administration or Online Nursing Education tracks, must submit a separate application to the Liaison Nursing CAS system in addition to an application to Marshall University and Marshall University's School of Nursing. NursingCAS | Applicant Login Page Section (https://nursingcas2025.cas.myliaison.com/applicant-ux/#/login)
2. Online Family Nurse Practitioner Track (FNP). Synchronous and asynchronous courses. One required trip to Marshall University's main campus for an immersion skills experience.
3. Online Family Nurse Practitioner-Post-Master Certificate (PMC-FNP). Synchronous and asynchronous courses. One required trip to Marshall University's main campus for an immersion skills experience.
4. Shenandoah Cooperative Psychiatric Mental Health Nurse Practitioner Track (PMHNP)*
5. Shenandoah Cooperative Midwifery Track (MW)*

Applicants for the **FNP, PMC-FNP, PMHNP, and MW** will receive priority consideration, with submission of completed applications and all required supporting materials by the priority deadlines of September 15th for the Spring semester and February 15th for the Fall semester. Completed applications submitted after the priority deadline will be considered on a case-by-case basis only if openings remain in these program tracks, but no later than December 1st for the Spring semester and August 1st for the Fall semester. **Required for admission is an overall undergraduate GPA of 3.0 or greater on a 4.0 scale.**

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* There is no PMC-PMHNP or PMC-MW through Marshall University with Shenandoah.

Program Requirements

The student and advisor will develop a Plan of Study or blueprint for graduation requirements. The Plan of Study must be on file in the Graduate Studies office before the student registers for the 12th semester hour.

Policies

Students in both the M.S.N. and Post Master's Certificate programs are governed by policies stated in the Marshall University Graduate Catalog. Policies specific to the nursing programs are as follows:

M.S.N. General Academic Policies

1. All graduate academic policies apply to all M.S.N. and post master's coursework. Students are required to review and download the current Graduate Catalog and M.S.N. Handbook upon admission to the M.S.N. program.
2. The School of Nursing reserves the right to administratively withdraw any nursing student whose health, academic record, clinical performance, or behavior is judged unsatisfactory.
3. A student is permitted to repeat only one nursing course in the process of completing the MSN program.
4. All grades of *C* or less are counted in computing averages, but no more than six hours of *C* and no grades below *C* may be applied toward a graduate degree or post-master's certificate. (From *Graduate Catalog*.)
5. A student who earns 9 credits of a *C* in nursing courses will be dismissed from the program.
6. If a student earns a *D* or *F* in any course, he or she will be dismissed from the program.
7. Any student dismissed from the program may not reapply to the area of emphasis in which he or she was enrolled.
8. Students in the graduate program who fail to enroll for a semester without an approved leave of absence (LOA) are considered withdrawn from the program and are not eligible for future enrollment.
9. Students who do not follow the university procedure for withdrawal from a course will earn a grade of F for the course.
10. No more than twelve (12) credit hours may be accepted as transfer credit in the MSN tracks. For graduate certificate programs, transfer credits may not exceed 6 credit hours. The grades earned in the classes to be transferred must be a *B* or better. Graduate credits transferred from other institutions will not become a part of the Grade Point Average recorded on the student's Marshall University transcript and will simply meet credit hour requirements toward graduation. (From *Graduate Catalog*.)
11. All students must have a 3.00 GPA in their major to graduate and receive the MSN or post master's certificate.
12. A student must have an approved Plan of Study (POS) developed with his or her advisor prior to registering for any M.S.N. class. Any deviation from the student's POS must be approved by his or her advisor. Failure to comply with this policy can result in an administrative withdrawal from a course.

Other Policies

1. Each student must pass and submit a background check and drug screen prior to being registered for his/her first nursing course.
2. Each student must submit a satisfactory health record prior to being registered for his/her first nursing course.
3. Each student must submit proof of a negative PPD screening test prior to being registered for his/her first nursing course. Annual PPD screening test for Tuberculosis must be submitted while in the MSN program.
4. Each student must show evidence of the following prior to being registered for any nursing course:
   a. Current unencumbered professional nurse licensure in the state in which they will attend clinical precepting
   b. Current certification in cardiopulmonary resuscitation (CPR). CPR certification must remain current with proof submitted while in the MSN program.
5. Students are responsible for own transportation to and from all clinical assignments.
6. Students are required to be in professional attire for all clinical practicums and to wear a name pin. In addition, selected clinical agencies require a white lab coat.

For additional information, contact the School of Nursing.

For additional policies, see the *Graduate Nursing Student Handbook*.

Nurse-Midwifery (Offered in Cooperation with Shenandoah University)

Once the student has successfully completed his or her 25 credit hours at Marshall University, the student will transfer to Shenandoah University to obtain an additional 32 credit hours of classroom and clinical midwifery courses. The student will spend one week at the beginning of each semester at Shenandoah and then return to rural WV to be placed with a preceptor to obtain the clinical portion of the program. The student will continue to receive didactic material from Shenandoah midwifery faculty.

Upon successful completion of the 26 credit hours at Shenandoah, the student transfers these 26 hours to Marshall University. The student will receive an M.S.N. from Marshall University and a certificate in Nurse-Midwifery from Shenandoah University. The student is then eligible to take the Certified Nurse Midwifery Exam from the American Midwives Certification.

Psychiatric Mental Health Nurse Practitioner (Offered in Cooperation with Shenandoah University)

Students will meet all Marshall University School of Nursing and Shenandoah University admissions requirements; including an interview by SU psychiatric mental health nurse faculty. Students will take the above courses at Marshall University and the PMHNP courses at Shenandoah University.

SU will offer 29 hours of courses, all offered through SU psychiatric mental health nurse faculty. Students enrolled in the PMHNP will attend PMHNP classes at Shenandoah University after attending the core graduate courses at Marshall University.

The PMHNP curriculum allows students to attend classes during concentrated times (2 weekends a semester). The remaining weeks of the semester, students are placed with clinical preceptors to apply what they have learned in the didactic portion of the course(s). Students then return to campus for examinations or arrange for a proctored examination.

Upon successful completion of the 29 credit hours at Shenandoah, the student transfers these 29 hours to Marshall University. The student will receive an M.S.N. from Marshall University and a certificate from Shenandoah University.

Shenandoah Graduate Academic Progression Policies for the Nurse Midwifery and Psychiatric Mental Health Nurse Practitioner Cooperative Students

Shenandoah Graduate Grading Scale

Percent Range	*Letter Grade*	*Notes*
90%-100%	A	Successful grade
80%-89%	B	Successful grade
70%-79%	C	Failing grade
69% and below	F	Dismissal from the program track

Shenandoah Grading Criteria

Grading Criteria at the graduate level are according to the following guidelines:

- Pluses and minuses are not applied to the grades.
- Students must achieve a minimum average of 80% on tests, quizzes (NON-OPEN BOOK QUIZZES) in a course before any other assignments are factored into the final course grade. For example, if a student has a weighted average grade of a 78% on the objective assessments (tests, quizzes, and final exams - not including open book quizzes) and then has a 94% on each SOAP note, the student will not pass the course, as SOAP note or presentation is NOT considered an objective assessment.
- Any grade involving a numerical fraction is rounded automatically by Canvas in standard rounding format. Please note, however, the FINAL grade will not ever be rounded IF a minimum grade of 80% is not achieved in the objective assessments. For example: A final Grade of 91.6 could get a 92%. A final grade of 89.8 could receive a 90%. BUT a final grade of 79.7 will receive a 79% and will not pass the course.

Shenandoah Graduate Progression Policy

- Graduate students must maintain a minimum of a 3.0 cumulative GPA, meaning that all courses must be completed with a minimum grade of "B" or better.
- If the cumulative GPA falls below 3.0, the student will be given one semester to bring the GPA up to a 3.0 or be dismissed from the program.
- Students must earn a final grade of "B" or better in all courses to graduate.
- A "C" in a course must be repeated for a "B" or better.
- Only one repeated course can be applied toward the degree. A second course with a grade of less than "B" will result in dismissal.
- Graduate students who do not earn a "B" or better in a specialty course (those courses that start with the prefix NP, PMH, and NM) may not progress to the next specialty course, be it didactic or clinical.

Shenandoah Clinical Site Experience Guidelines for All Nursing Students

Facilities Used for Clinical Experiences

The School of Nursing uses a wide range of health care facilities for clinical experiences to provide students with opportunities to observe and function in a variety of settings. Clinical sites are selected to best meet the objectives of a particular course. A student may suggest a possible site for clinical experience to their course coordinator, but the faculty member responsible for the course makes the final arrangements in collaboration with the SON Clinical Coordinator. Under no circumstances may a student directly arrange with a health care facility for their clinical experiences.

Students can expect to have possible clinical experiences in a variety of sites and in locations not necessarily close to their assigned campuses over the course of their program. Students may need to travel some distance to their clinical sites during their programs; travel up to 100 miles from your home address my be needed (Nurse Midwifery students may travel even further). *Students are required to provide a minimum of three (3) preceptors/sites that are willing to precept the student during their program. The preceptor/site referral should be given to the appropriate program director no later than one semester PRIOR to starting clinical courses.* These referrals should not be for established SON graduate sites. These sites can be found in EXXAT. *Students are expected to accept their clinical assignments.* Clinical experiences may

be scheduled on varying shifts during the week, including nights and weekends.

Except for DNP students, students may not be assigned clinical experiences in units where they are currently employed. Students may, however, be assigned a clinical experience in another unit within the same facility. Additionally, students may be asked not to be assigned to clinical experiences in an office setting of a primary care provider where they or their immediate family receive personal health care. This may be negotiated with approval of the course faculty. Students are responsible for providing their own transportation to and from clinical sites.

All health records including immunizations and health insurance must be current and recorded in the Wilkins Wellness Center in order to attend clinical and preceptor experiences. Students must also have current CPR certification, completion of site orientation, bloodborne pathogens and HIP AA prior to starting any clinical experience/rotation. Failure to maintain up-to-date health records and CPR can result in an unexcused absence for the assigned clinical/preceptor experience.

- Family Nurse Practitioner (p. 225)
- Nurse Midwifery (p. 226)
- Nursing Administration (p. 227)
- Nursing Education (p. 227)
- Psychiatric Mental Health Nurse Practitioner (p. 227)

Family Nurse Practitioner

Contacts: Dr. Bobbie Taylor
Location: 404 Corbly Hall
Telephone: 304-696-2626
Website: taylor394@marshall.edu

Family Nurse Practitioner Course Requirements

Code	Title	Credit Hours
Core Component Courses		
NUR 602	Theoretical Found in NUR	3
NUR 604	Leadership in Nursing	3
NUR 606	Advanced Nursing Research	3
NUR 608	Issues in Health Care	3
Area of Emphasis Component Courses		
NUR 623	Adv Pathophysiology	3
NUR 625	Advanced Physical Assessment	3
NUR 627	Advanced Family Nursing 1	5
NUR 628	Advanced Family Nursing II	5
NUR 629	FNP Summer Practicum	3
NUR 630	Advanced Pharmacology	4
NUR 635	FNP Practicum	7
Total Credit Hours		**42**

Plan of Study

There are two plans of study for fall admission and two plans of study for spring admission.

FALL OPTION 1

First Year		
Fall		**Credit Hours**
NUR 602	Theoretical Found in NUR	3
NUR 623	Adv Pathophysiology	3
NUR 630	Advanced Pharmacology	4
	Credit Hours	**10**
Spring		
NUR 606	Advanced Nursing Research	3
NUR 608	Issues in Health Care	3
NUR 625	Advanced Physical Assessment	3
	Credit Hours	**9**
Second Year		
Fall		
NUR 604	Leadership in Nursing	3
NUR 627	Advanced Family Nursing 1	5
	Credit Hours	**8**
Spring		
NUR 628	Advanced Family Nursing II	5
	Credit Hours	**5**
Summer		
NUR 629	FNP Summer Practicum	3
	Credit Hours	**3**
Third Year		
Fall		
NUR 635	FNP Practicum	7
	Credit Hours	**7**
	Total Credit Hours	**42**

FALL OPTION 2

First Year		
Fall		**Credit Hours**
NUR 602	Theoretical Found in NUR	3
NUR 604	Leadership in Nursing	3
	Credit Hours	**6**
Spring		
NUR 606	Advanced Nursing Research	3
NUR 608	Issues in Health Care	3
	Credit Hours	**6**
Second Year		
Fall		
NUR 623	Adv Pathophysiology	3
NUR 630	Advanced Pharmacology	4
	Credit Hours	**7**
Spring		
NUR 625	Advanced Physical Assessment	3
	Credit Hours	**3**

Third Year		
Fall		
NUR 627	Advanced Family Nursing 1	5
	Credit Hours	**5**
Spring		
NUR 628	Advanced Family Nursing II	5
	Credit Hours	**5**
Summer		
NUR 629	FNP Summer Practicum	3
	Credit Hours	**3**
Fourth Year		
Fall		
NUR 635	FNP Practicum	7
	Credit Hours	**7**
	Total Credit Hours	**42**

SPRING OPTION 1

First Year		
Spring		**Credit Hours**
NUR 602	Theoretical Found in NUR	3
NUR 608	Issues in Health Care	3
	Credit Hours	**6**
Second Year		
Fall		
NUR 623	Adv Pathophysiology	3
NUR 630	Advanced Pharmacology	4
	Credit Hours	**7**
Spring		
NUR 606	Advanced Nursing Research	3
NUR 625	Advanced Physical Assessment	3
	Credit Hours	**6**
Third Year		
Fall		
NUR 604	Leadership in Nursing	3
NUR 627	Advanced Family Nursing 1	5
	Credit Hours	**8**
Spring		
NUR 628	Advanced Family Nursing II	5
	Credit Hours	**5**
Summer		
NUR 629	FNP Summer Practicum	3
	Credit Hours	**3**
Fourth Year		
Fall		
NUR 635	FNP Practicum	7
	Credit Hours	**7**
	Total Credit Hours	**42**

SPRING OPTION 2

First Year		
Spring		**Credit Hours**
NUR 602	Theoretical Found in NUR	3
	Credit Hours	**3**
Second Year		
Fall		
NUR 604	Leadership in Nursing	3
NUR 608	Issues in Health Care	3
	Credit Hours	**6**
Spring		
NUR 606	Advanced Nursing Research	3
	Credit Hours	**3**
Third Year		
Fall		
NUR 623	Adv Pathophysiology	3
NUR 630	Advanced Pharmacology	4
	Credit Hours	**7**
Spring		
NUR 625	Advanced Physical Assessment	3
	Credit Hours	**3**
Fourth Year		
Fall		
NUR 627	Advanced Family Nursing 1	5
	Credit Hours	**5**
Spring		
NUR 628	Advanced Family Nursing II	5
	Credit Hours	**5**
Summer		
NUR 629	FNP Summer Practicum	3
	Credit Hours	**3**
Fifth Year		
Fall		
NUR 635	FNP Practicum	7
	Credit Hours	**7**
	Total Credit Hours	**42**

Nurse Midwifery

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Location: 404 Corbly Hall
Telephone: 304-696-2626
Website: taylor394@marshall.edu

Nurse-Midwifery (Offered in Cooperation with Shenandoah University)

Course Requirements

Code	Title	Credit Hours
Core and Related Courses at Marshall University (25 hours)		
NUR 602	Theoretical Found in NUR	3
NUR 604	Leadership in Nursing	3
NUR 606	Advanced Nursing Research	3

NUR 608	Issues in Health Care	3
NUR 620	Adv Pathophysiology I	2
NUR 621	Adv Pathophysiology II	2
NUR 622	Advanced Physical Assessment	5
NUR 663	Advanced Pharmacology I	2
NUR 664	Advanced Pharmacology II	2
Advanced Practice Midwifery Courses at Shenandoah University		
(14 credits didactic hours and 12 credits of clinical practice hours, a total of 26 credits)		
NM 610	Primary Care of Women	2
NM 620	Antepartal Care	2
NM 612	Women's Health	2
NMLB 624	Midwifery Practicum I	3
NM 640	Comprehensive Perinatal Care	3
NM 641	Perinatal Complications	2
NMLB 630	Midwifery Practicum II	4
NM 660	Advanced Nurse-Midwifery Role Development	2
NM 652	Evidence-Based Practice Project	1
NMLB 651	Integrated Midwifery Internship	5
Total Credit Hours		**51**

Once the student has successfully completed his or her 25 credit hours at Marshall University, the student will transfer to Shenandoah University to obtain an additional 14 credit hours of classroom and 12 credits of clinical midwifery courses for a total of 26 credits. The student will spend one week at the beginning of each semester at Shenandoah and then return to rural West Virginia to be placed with a preceptor to obtain the clinical portion of the program. The student will continue to receive didactic material from Shenandoah midwifery faculty.

Upon successful completion of the 26 credit hours at Shenandoah, the student transfers these 26 hours to Marshall University. The student will receive an M.S.N. from Marshall University and a certificate in Nurse-Midwifery from Shenandoah University. The student is then eligible to take the Certified Nurse Midwifery Exam from the American Midwives Certification.

Nursing Administration

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Website: taylor394@marshall.edu

Nursing Administration Course Requirements

Code	Title	Credit Hours
Core Component Courses		
NUR 602	Theoretical Found in NUR	3
NUR 604	Leadership in Nursing	3
NUR 606	Advanced Nursing Research	3
NUR 608	Issues in Health Care	3
Area of Emphasis Component Courses		
NUR 642	Org Dynamics in Nursing	3
NUR 644	Financial Stra In Nur Adm	3
NUR 646	Nur Manage Health Care I	6
NUR 648	Nur Manage Health Care II	6
Elective Component Courses		
Select 6 credits from the following:		6
NUR 681	Thesis	
NUR 616	Curr Dev in Nursing	
NUR 618	Teaching in Nursing	
Other Electives		
Total Credit Hours		**36**

Nursing Education

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Website: taylor394@marshall.edu

Nursing Education Course Requirements

Code	Title	Credit Hours
Core Component Courses		
NUR 602	Theoretical Found in NUR	3
NUR 604	Leadership in Nursing	3
NUR 606	Advanced Nursing Research	3
NUR 608	Issues in Health Care	3
Area of Concentration Component Courses		
NUR 610	Nur. Patho, Assess, and Pharm	3
NUR 616	Curr Dev in Nursing	3
NUR 618	Teaching in Nursing	3
NUR 619	Practicum: Teach Nursing	6
EDF 636	Advanced Classroom Assessment	3
EDF 619	Educational Psychology	3
Elective Course Options		
Select one of the following:		3
CIEC 600	Instructional Design & Tech	
CIEC 635	Using Internet in Classroom	
NUR 642	Org Dynamics in Nursing	
NUR 644	Financial Stra In Nur Adm	
Total Credit Hours		**36**

Psychiatric Mental Health Nurse Practitioner

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Psychiatric Mental Health Nurse Practitioner (Offered in Cooperation with Shenadoah University)

Course Requirements

Code	Title	Credit Hours
Core and Related Courses at Marshall University		
NUR 602	Theoretical Found in NUR	3
NUR 604	Leadership in Nursing	3
NUR 606	Advanced Nursing Research	3
NUR 608	Issues in Health Care	3
NUR 620	Adv Pathophysiology I	2
NUR 621	Adv Pathophysiology II	2
NUR 622	Advanced Physical Assessment	5
NUR 663	Advanced Pharmacology I	2
NUR 664	Advanced Pharmacology II	2
Psychiatric Mental Health Nurse Practitioner Courses at Shenandoah University		
N 560	Advanced Concepts in Physiology and Pathophysiology	3
N550	Advanced Pharmacology and Therapeutics	3
N/NLAB 580	Advanced Health Promotion and Assessment Across the Lifespan	4
PMH 525	Behavioral Neuroscience and Psychopharmacology	3
PMHL 642	Practicum I (180 clinical hours)	3
PMH 641	Management of Psychiatric Mental Health: Adult	2
PMH 635	Foundations of Psychotherapy	3
N 532	Advanced Practice Roles, Ethics and Policy	3
PMHL 681	Practicum II (180 clinical hours)	3
PMH 680	Management of Psychiatric Mental Mental Health: Child and Adolescent	2
PMH 685	Management of Psychiatric Mental Mental Health: Geriatrics	2
PMHL 662	Practicum III (120 clinical hours)	2
PMH 661	Management of Complex Mental Health Across the Lifespan	2
PMH 690	Advanced Nurse Practitioner Role Development	2
PMHL 695	Advanced Psychiatric Mental Health Practicum (300 clinical hours)	5
Total Credit Hours		**67**

Physical Therapy, D.P.T.

School of Physical Therapy

Program Description

The mission of the Marshall University School of Physical Therapy is to provide contemporary physical therapy education; to empower graduates and educators to exemplify excellence in clinical practice, scholarship, mentorship, leadership, and professionalism; and to engage all stakeholders in employing evidence-informed physical therapy that reflects and expands best practice.

The Doctor of Physical Therapy (DPT) program offered by the School of Physical Therapy at Marshall University is a full-time, three-year, nine-semester, 115-credit graduate program for students who wish to pursue a career as a physical therapist practitioner. Our inaugural class matriculated on May 21, 2012.

The curricular model of Marshall University's DPT program is a hybrid (traditional/modified case-based model), designed in a "builds on, leads to" manner which is delivered in a full-time, in-house format utilizing lecture, labs, small group discussion, case seminars, integrated on-campus and clinical visits, and internships, starting with education in the basic foundational sciences that inform the content of the field. Faculty teaching the foundational sciences facilitates discussion drawing on research, clinical experiences, and personal/professional activities to model professional behaviors, elucidates psychosocial and ethical issues, and presents a broad application of course content to practice settings. Through clinical cases intermingled within basic science didactic content, students are challenged to apply basic science information to solve clinical problems. Instruction in these basic science areas builds the foundation for the clinical coursework.

Within any given semester, we utilize team-taught, integrated course classes to encourage synthesis of material presented. Case Application Seminars and Experiences (CASE) courses provide students the opportunity to learn collaboratively in faculty-facilitated small groups. During many semesters, students attend laboratory sessions in local physical therapy/rehab clinics and the Marshall University Volunteers in Therapy (MUVIT) pro-bono clinic for hands-on experiences interspersed within the didactic coursework.

Early in the curriculum, students are introduced to the basic tools of investigation in PT (Evidence Based Practice course series). Starting with the clinical decision-making process, they learn to utilize literature review and scientific method to support evidence-based practice, and the process for utilizing and creating evidence to improve upon the body of knowledge that informs the profession. Basic clinical skills coursework forms the foundation for more advanced clinical courses in diagnosis and management.

Faculty emphasize utilization of current, evidence-based practices that are built on the foundational sciences and are consistent with published research and clinical outcomes in the diagnosis and management process. Knowledge of the professional aspects of practice is integral to successful hands-on practice, and necessary to become a competent practitioner. Therefore, a series of professional practice courses inculcate a working knowledge of communications, educational methodology and process, culture, ethics, law, health care delivery systems, administration, leadership, service learning, and the political aspects that influence the field of physical therapy.

Clinical education exposure/experiences are integrated into the first two years of the curriculum through clinic visits to local physical therapy facilities spread within the didactic coursework, with the first full-time clinical rotation/internship occurring early in the second year of the program. These rotations continue in the 3rd year with two full-time clinical internships in the last two semesters of the program. This series of clinical experiences assures that the graduate has the opportunity to develop skills in a variety of practice settings, working within a team approach to patient management, under the direct supervision of a clinical instructor who is a licensed physical therapist.

Our 22,600-square-foot space includes three classrooms/laboratories and eight seminar rooms for teaching purposes, a research laboratory

(about 2000 square feet), faculty and administrative offices, student locker rooms, restrooms and kitchen/lounge areas, and specialized equipment necessary to teach the content taught in a physical therapy professional program. There is sufficient free parking to accommodate students, faculty, staff, patients and visitors.

Accreditation

Marshall University is accredited as an institution of higher learning by the Higher Learning Commission (230 South LaSalle Street, Suite 2400, Chicago, IL 60602; toll-free 1-800-621-7440, www.hlcommission.org (http://www.hlcommission.org)). The program has received approval from the Marshall Board of Governors to offer the DPT program, and program approval from the Higher Learning Commission.

The Doctor of Physical Therapy Program at Marshall University is accredited by the Commission on Accreditation in Physical Therapy Education (CAPTE), 1111 North Fairfax Street, Alexandria, VA 22314; phone: 703-706-3245; email: accreditation@apta.org; website: www.capteonline.org (http://www.capteonline.org).

Admission Requirements

Minimum Requirements for Admission

The SOPT offers three (3) pathways, 1) the traditional admissions pathway for college undergraduates, 2) Junior Admission (Early Assurance) for high-achieving college students that want to pursue their DPT at Marshall University, and 3) High School (Early Assurance) pathway for high-achieving high school students.

Traditional Admissions Pathway

1. Baccalaureate degree from an accepted, accredited college/university completed prior to the starting date in the DPT program.
2. *Prerequisite Courses:* Must complete all prerequisite courses prior to the summer term for which you are applying. For example, if you are applying for the class that starts in May 2019, all of your prerequisite courses must be completed by Summer 2019.

Code	Title	Credit Hours
Science [1]		
Biology (& lab)		8
Chemistry (& lab)		8
Physics (& lab)		8
Human Anatomy [2]		3
Human Physiology [2]		3
Statistics		3
Behavioral/Social Science		
Psychology (Preferably abnormal & developmental or life span)		6

3. Clinical Observation Hours: Complete at least 60 clinical observation hours, preferably from two different settings under the direct supervision of a licensed physical therapist by the time of application. Please follow the instructions listed on the PTCAS website (www.ptcas.org/PTHours/ (http://www.ptcas.org/PTHours/)) to submit your hours for verification. For PTCAS general application, PT observation hours need to be completed no later than October 1.
4. Grade Point Averages:
   A minimum 3.0 for overall Undergraduate GPA
   A minimum 3.0 for the GPA for prerequisite sciences
   A minimum 3.0 for the GPA for all prerequisites combined
5. GPA calculation for repeated courses:
   - If a student retakes the same science course at the same institution and earns a higher grade on the second attempt, we will use the higher grade to calculate GPAs.
   - In other situations (i.e., taking the same science course more than two times at the same institution; retaking the same or equivalent course at a different institution), if a science course is repeated, we will use all grades earned for that course to calculate GPAs.
6. Provide two references: One from a licensed physical therapist (Physical Therapist Assistant is not accepted) and the other from either another physical therapist, or a faculty member or an employer. A reference request form is provided on the PTCAS website (www.ptcas.org (http://www.ptcas.org)).
7. *Provisional Admission:* A student who possesses a baccalaureate degree from an accepted, accredited college/university and has submitted all other application materials, but still has 1-2 prerequisite courses in progress at the time of interview (early January) may be provisionally admitted. However, outstanding course(s) must be completed with the appropriate minimal grade prior to commencing the DPT program in May of the year for which the student is applying.
8. *Conditional Admission:* A student who does not already possess a baccalaureate degree from an accepted, accredited institution, and/or has 1-2 prerequisite courses in progress at the time of interview (early January), but has submitted all other required application materials, may be conditionally admitted. However, the bachelor's degree must be earned, and outstanding course(s) must be completed with the appropriate minimal grade prior to commencing the DPT program in May of the year for which the student is applying.

[1] All science prerequisite courses must be for science majors (a science course older than 10 years will not be accepted). Courses with a grade of *C-* or lower will not be accepted as prerequisites. Anatomy and physiology courses should preferably be completed with a grade of *B* or better. Note that students will be allowed to have one or two courses in progress at the time of interview (early January); however, the outstanding course(s) must be completed with the appropriate minimal grade, prior to commencing the DPT program in May of the year for which students are applying.

[2] Students must document 6 hours of anatomy and physiology regardless of how the courses are offered. Many universities offer a two semester integrated human anatomy and physiology course instead of three credits human anatomy and three credits human physiology. A qualified course shall cover all major human body systems. Functional anatomy with a main emphasis on the musculoskeletal system and exercise physiology are not accepted.

International applicants will be required to submit an official TOEFL score in addition to the other requirements described for consideration. TOEFL/IBT score must be consistent with the standards established by the Foreign Credentialing Commission on Physical Therapy (FCCPT) as acceptable for physical therapists desiring to enter practice in the U.S. from a foreign country. The minimum scores to be considered for admission must be a Total Score of 89 with the minimum section requirement of "Speaking" of 26. TOEFL requirement is waived for applicants who hold a bachelor's degree from an accepted, accredited college or university in the United States.

International applicants who hold a bachelor's degree from a college or university outside of the United States will have to complete their credential evaluation [WES International Credential Advantage Package (ICAP)] from the World Education Services (WES) to prove that their education is equivalent to the US undergraduate education and have the report sent to PTCAS.

Admission decisions are based on a variety of factors. The primary factor in all admission decisions is prior academic achievement (overall, science, and/or prerequisite grade point average – GPA) and the potential for an applicant to be successful in a rigorous PT curriculum. An applicant's volunteer experience, letters of recommendation, and interview performance are reviewed by members of the Admissions Committee. The Admissions Committee will also consider additional factors in the final admissions review process (e.g., undergraduate attendance at Marshall University or West Virginia state residency, veteran of the U.S. military, and certain economic, environmental, or geographic indicators contained in the PTCAS application).

How to Apply

The School of Physical Therapy at Marshall University is participating in the Physical Therapist Centralized Application Service, known as PTCAS. Applicants will apply online using the PTCAS application. To learn more about the PTCAS application process, visit www.ptcas.org (http://www.ptcas.org).

Junior Early Assurance Pathway

The Junior Early Assurance Admission Pathway provides an opportunity for students to secure a place in the Doctor of Physical Therapy (DPT) program, bypassing the traditional admission process through PTCAS typically undertaken during their senior year. This optional pathway is tailored for high-achieving college students who have excelled academically early in their college journey and wish to selectively pursue their DPT degree at Marshall University. This pathway offers scholarship assistance during the first year of the DPT degree.

Eligibility Requirements

To apply for the Junior Early Assurance pathway, applicants must meet the following criteria:

- Departmental application to the DPT program. Deadline for submission of program application: October 15 of the applicant's junior year.
- Credit Requirements: Complete at least 60 college credits by the application deadline.
- GPA Requirements: Maintain an overall and science prerequisite GPA of 3.5 or higher at the time of application.
- Prerequisite Coursework: Finish at least 24 out of the 33 required science prerequisite credits* and 3 credits of the Behavioral/ Social Science prerequisites, earning a grade of "B" or higher in the following courses:

  Sciences:

- Biology (with lab)*: 8 credits
- Chemistry (with lab)*: 8 credits
- Physics (with lab)*: 8 credits
- Human Anatomy*: 3 credits
- Human Physiology*: 3 credits
- Statistics*: 3 credits

  Behavioral/Social Sciences:

- Psychology – 6 credits (preferably life development, life span or abnormal)

- Observation Hours: Complete a minimum of 15 clinical observation hours by the application deadline.
- References: Submit the contact information of two recommenders, including one from a licensed Physical Therapist by the application deadline. An email will be sent to each of your recommender with details on how to complete their online recommendation.
- Essay: Provide a personal essay as part of the application.

*Science prerequisite courses completed at a community college will not count toward the minimum 24-credit requirement.

Continuing Requirements (after being accepted) for Full Admission to the DPT Program:

- Application for Graduate Admission. Deadline: October 15 of the applicant's final undergraduate year.
- Earn a Bachelor's degree.
- Achieve an overall and science prerequisite GPA of 3.5 or higher.
- Secure a grade of "B" or better in all required prerequisite courses.

Benefits of Junior Early Assurance

1. Guaranteed Seat: A seat in the DPT program is reserved and held until after graduation, eliminating application stress during your senior year.
2. Simplified Application Process: The university's internal application process replaces the need for PTCAS, saving time and costs.
3. Guaranteed First-Year DPT Scholarship:

- Receive a $3,000 scholarship during the first year ($1,000 per semester).

- Get $500 of your seat deposit credited during the summer semester of your first year.

Deposit: $500 seat deposit will be due at the time of acceptance. The seat deposit will be applied to your first semester's tuition upon matriculation into the program.

High School Early Assurance Pathway

The Marshall University Doctor of Physical Therapy Early Assurance Program allows high school seniors to apply for conditional acceptance to the Doctor of Physical Therapy Program. Successful applicants will have a guaranteed seat pending maintenance of all undergraduate requirements and earning a bachelor's degree from Marshall University.

- Open for Applications: Monday, June 28
- Application Deadline: Monday, November 1
- Letters of Recommendation/Official Transcript/ACT or SAT Score Report Deadline: Monday, November 15
- Interviews for the DPT Early Assurance Program (required): January (exact dates TBD)

Admission Requirements

This program is designed for highly motivated high school students (in-state or out-of-state) who have achieved the following criteria during their high school careers:

- Minimum composite ACT of 25 or SAT composite score of 1200
- Cumulative High School GPA of 3.5 on a 4.0 scale.
- Two letters of reference/recommendation from high school teachers in STEM-related courses.
- On-campus interview in January with the Doctor of Physical Therapy Admissions Committee.

Continuing Requirements

- Students must declare an undergraduate major (e.g., Exercise Science, Biomechanics, Health Sciences, Biology, etc.). There is no preference given based on undergraduate major; however, students must complete all required prerequisite courses (see below).
- Complete their undergraduate degree in four years.
- Students must maintain a 3.0 GPA each semester (students may fall below a 3.0 GPA for a maximum of one semester during their undergraduate degree), achieve an overall cumulative undergraduate GPA of 3.5 on a 4.0 scale, and maintain a minimum 3.5 GPA in all prerequisite courses (BSC 120 and BSC 121 or higher; BSC 227 and BSC 228; CHM 211, 217, and 218 or higher; PHY 201, 202, 203, and 204 or higher; STA 225 or PSY 223 or MGT 218; PSY 201 and PSY 311).
- Students must successfully complete at least 60 hours of valid clinical observation in physical therapy before the start of the fall of the senior year.
- Students will apply through PTCAS in the fall of the senior year to ensure that all criteria are met. Students may have a maximum of two prerequisite courses outstanding in the fall of the senior year.

Application Process

- Students must apply and be accepted into the undergraduate program and declare a major at Marshall University prior to applying to the DPT Early Assurance Program.
- Students must complete the Early Assurance Program application and submit supporting materials to MU SOPT Admissions Committee (2847 5th Ave, Huntington, WV 25702) no later than the dates listed above. An incomplete application package could negatively impact the selection process.
- Application package must include:
  - Application form including personal statement/essay.
  - Official high school transcripts.
  - ACT or SAT score (must include composite score and the individual math score).
  - Two letters of reference/recommendation which must be from high school teachers who have had the applicant in class and are familiar with the applicant's academic performance.
- Applications will be reviewed by the MU SOPT Admissions Committee, and all applicants will be sent notification in writing whether they have been selected for an interview.
- Finalists will be required to participate in on-campus interviews.
- The MU SOPT Admissions Committee by final vote will select the applicants who will be accepted into the program.

Criminal Background Check Information

Special Note Regarding Eligibility for Certification for Licensure, Criminal Background Clearance

Students who are offered admission to the Marshall University School of Physical Therapy are required to have a criminal background check. Complete instructions on obtaining and forwarding these documents will be provided to students who are offered admission, prior to matriculation. Clinical rotation sites that require a criminal background check may deny a student's participation in the clinical rotation because of a felony or misdemeanor conviction or a record of child abuse. Clinical sites may also deny participation in clinical experience for other reasons, such as failure of a required drug test, or inability to produce an appropriate health clearance. As participation in clinical experiences, rotations or fieldwork is a required part of the curriculum and a requirement for graduation, denial of participation by a clinical site may result in delay of graduation or the inability to graduate from the program. Regardless of whether or not a student graduates from Marshall, individuals who have been convicted of a felony or misdemeanor may be denied certification or licensure as a health professional. Information regarding individual eligibility may be obtained from the appropriate credentialing bodies or state licensure board.

Program Requirements

Academic Progression

Provisions for academic progression are further outlines in the Graduate Catalog and SOPT Student Handbook. Academic progression is reviewed during orientation upon matriculation in the DPT program and include, but are not limited to, the following details regarding Academic Progression (probation, dismissal, re-entry, and deceleration).

1. Summer (DPT Semester 1) of First Year:

- A student whose Grade Point Average (GPA) falls between 2.90-2.99 will be recommended for academic probation by the Academic and Professional Standards Committee (APSC) and approved by the SOPT chairperson.
- A student whose GPA falls between 2.75-2.89 will be recommended for academic probation. The student may request to 1) restart the DPT program with the following cohort, 2) continue the program on academic probation, or 3) switch to the 4-year deceleration pathway with academic probation (see 4-year deceleration pathway details). The APSC will review the academic/professional performance of all students and counsel the student on the pros and cons of each option. The student will make the decision in 7 days of the last day of class.
- A student whose GPA falls below a 2.75 will be recommended for dismissal from the MUSOPT. The student may reapply to the program through PTCAS in the following year.
  - A student who restarts the program with the following cohort (automatic or through PTCAS application) will start with a clean GPA slate upon re-entering the program.
  - The student who chooses academic probation will retain all earned grades and must come off probation in the required time period.

2. Fall (DPT Semester 2) of First Year:

- A student who was not on probation after the summer semester (DPT Semester 1) and whose cumulative GPA falls between 2.90-2.99 will be recommended for academic probation by the APSC.
- A student who was not on probation after the summer semester (DPT Semester 1) and whose cumulative GPA falls between 2.75-2.89 will have the option to, 1) continue on the 3-Year regular pathway with academic probation, or 2) switch to the 4-Year deceleration pathway with probation. A student who continues the DPT program on either the 3-Year regular pathway or the 4-Year deceleration pathway must complete the semester. The student will retain all earned grades and must come off probation in the required time period.
- A student who was on probation after the summer semester (DPT semester 1) and whose cumulative GPA falls below 2.75 will be dismissed from the program. The student may reapply to the program through PTCAS in the following year.
- In the fall semester of Year 1, a DPT student (whether on probation or not) experiencing academic difficulty in PT 701 Neuroanatomy and considering the 4-Year Deceleration Pathway may choose to withdraw from PT 701 before the University withdraw deadline, while continuing with their other fall semester courses. At the same time, the student may request to enter the 4-Year Deceleration Pathway starting in the spring semester by contacting the Chairperson of the APSC. PT 701 is the only course in the DPT curriculum that allows withdraw from a single course as the program operates as a cohort.

3. Any semester thereafter (after Fall of First Year):

- A student whose cumulative GPA falls between 2.75-2.99 will be recommended for academic probation by the APSC.
- A student whose cumulative Grade Point Average falls below a 2.75 will be dismissed from the program and may reapply through PTCAS.

4. Any student who is on probation will have one semester to correct academic deficiencies and bring the overall GPA above 3.00. If a student has demonstrated academic progress and improved their cumulative Grade Point Average during the semester of probation, the student may appeal to the APSC for an additional consecutive semester of probation. Students are allowed a maximum of two semesters of academic probation as part of the DPT curriculum.
5. Following notification of probation and before the start of the next semester, the student will be counseled by their faculty advisor or the APSC. During this initial counseling session, the student will be advised of their deficiencies and the requirements for removing the deficiencies by the end of the following semester.
6. The SOPT chairperson may either accept or overturn all recommendations by the APSC, and will subsequently inform the student of the final recommendation to the Assistant Provost of Graduate Studies.
7. The Assistant Provost of Graduate Studies makes the final decision regarding academic dismissal.
8. If the student disagrees with the SOPT chairperson's decision, the student may appeal the decision in writing to the Assistant Provost of Graduate Studies within three (3) university business days after notification of dismissal.
9. In the event a student is placed on probation in the final fall semester (DPT semester 8) and it is mathematically unable to achieve a 3.0 GPA, the student will not be permitted to attend the intermediate internship (PT 792 Clinical Internship II) and will be referred to the APSC for review and to make a recommendation for the SOPT chairperson.

The MUSOPT APSC is responsible for determining candidacy for Academic Probation. Students may be placed on probation for no more than two semesters during the entire DPT curriculum. The APSC will make decisions regarding any disciplinary or remediation action based on the student's academic, professional, and clinical performance.

4- Year Deceleration Pathway

The 4-Year Deceleration Pathway has the same degree requirements and the same number of credits to graduate, but the curriculum is sequenced over 4-years rather than 3-years. To ensure that students remain half-time, semester 10 has one additional course (PT 798 1-credit Independent Study) that will allow the student to retain half-time status (6 credits)/semester. The 4-Year Deceleration Pathway is only available to students who have demonstrated academic difficulty (cumulative GPA 2.75-2.89) in the summer or fall semesters of Year 1. The 4-Year Deceleration Pathway provides students with an additional option allowing them to remain in the program but with a lighter course load per semester. The student will take some courses with their original cohort, and they will take some courses with the cohort that is one year behind. The student will graduate with the cohort that is one year behind the matriculating cohort. All SOPT program policies and procedures remain in effect for the students on the 4-Year Deceleration Pathway. See Appendix 1 [of the School of Physical Therapy Student Handbook] for the 3-Year and the 4-Year DPT curricula. Students will have seven (7) days from the end of the summer (year 1) or fall (year 1) to make a decision to switch to the deceleration program. The student must sign an educational contract signifying that they are switching to the deceleration pathway. Once a student has switched from the 3-year to the 4-year deceleration pathway, they are unable to switch back. The student who elects to participate in the 4-Year deceleration pathway will incur an additional year of tuition. While the SOPT has made every effort to work with the financial aid office in the development of the deceleration pathway, the student is responsible for communicating with the Marshall University Financial Aid Office and insurers of any third-party scholarships.

Plan of Study 3 Year Regular Pathway

First Year

First Semester		**Credit Hours**
Summer I (11 weeks)		
PT 700	Gross Anatomy for PT	5
PT 710	Clinical Skills I	3
PT 750	Foundations of Phys Ther	2
PT 761	EBP I	2
	Credit Hours	**12**
Second Semester		
Fall I (15 weeks)		
PT 701	Neuroanatomy	4
PT 711	Kinesiology & Biomechs in PT	3

PT 720	Advanced Clinical Physiology	3
PT 731	Clinical Skills	3
PT 741	Medical Pathology in PT I	2
PT 751	Legal & Ethical Issues in PT	2
	Credit Hours	**17**

Third Semester

Spring I (15 weeks)

PT 712	Motor Control & Develop in PT	3
PT 732	Therapeutic Interventions	3
PT 742	Medical Pathology in PT II	2
PT 744	Med Pathology in PT IV	3
PT 745	Imaging in Physical Therapy	1
PT 763	EBP II	2
PT 781	Orthopedics in PT I	3
PT 790	ICEs in Physical Therapy I	1
	Credit Hours	**18**

Second Year

Fourth Semester

Summer II (10 weeks)

PT 713	Human Movement III	2
PT 747	Pharmacology in Rehab	2
PT 782	Orthopaedics in PT II	4
PT 771	Clin Application Seminar I	1
PT 733	Therapeutic Modalities	1
PT 734	Clinical Skills III	1
PT 748	Pain Science	1
	Credit Hours	**12**

Fifth Semester

Fall II (8 weeks clinical; 7 weeks didactic)

PT 702	Neuro Evaluation	1
PT 721	Applied Ex Phys	3
PT 754	Health Care Delivery Systems	1
PT 764	EBP III	1
PT 772	Clin Application Seminar II	1
PT 758	PM&BC in PT Practice	1
PT 791	Clinical Internship I	4
	Credit Hours	**12**

Sixth Semester

Spring II (15 weeks)

PT 704	Neurorehabilitation	4
PT 755	Service Learning Practicum	1
PT 765	EBP IV	1
PT 773	Clin Application Seminar III	1
PT 783	Cardiopulmonary in PT	4
PT 786	Rehab in Select Pops I	3
	Credit Hours	**14**

Third Year

Seventh Semester

Summer III (11 weeks)

PT 756	Administration in PT	3
PT 766	EBP V	1
PT 774	Clin Application Seminar IV	1
PT 784	Integumentary	2
PT 787	Rehab in Select Pops II	2
PT 799	Integration & Review	1
	Credit Hours	**10**

Eighth Semester

Fall III (6 weeks didactic; 12 weeks clinical)

PT 788	Rehab in Select Pops III	1
PT 714	Movement Integration	1
PT 789	Ortho III (Primary Care PT)	2
PT 792	Clinical Internship II	6
PT 794	ICEs in PT II	1
	Credit Hours	**11**

Ninth Semester

Spring III

PT 767	EBP VI	1
PT 785	Health Promo and Nutrition	2
PT 793	Clinical Internship III	6
	Credit Hours	**9**
	Total Credit Hours	**115**

Plan Of Study 4 Year Deceleration Pathway

First Year

First Semester		**Credit Hours**
Summer I (11 weeks)		
PT 700	Gross Anatomy for PT	5
PT 710	Clinical Skills I	3
PT 750	Foundations of Phys Ther	2
PT 761	EBP I	2
	Credit Hours	**12**

Second Semester

Fall I (15 weeks)		
PT 711	Kinesiology & Biomechs in PT	3
PT 720	Advanced Clinical Physiology	3
PT 731	Clinical Skills	3
PT 741	Medical Pathology in PT I	2
PT 751	Legal & Ethical Issues in PT	2
	Credit Hours	**13**

Third Semester

Spring I (15 weeks)		
PT 732	Therapeutic Interventions	3
PT 742	Medical Pathology in PT II	2
PT 745	Imaging in Physical Therapy	1
PT 763	EBP II	2
PT 781	Orthopedics in PT I	3
PT 790	ICEs in Physical Therapy I	1
	Credit Hours	**12**

Second Year

Fourth Semester

Summer II (10 weeks)

PT 747	Pharmacology in Rehab	2
PT 771	Clin Application Seminar I	1
PT 782	Orthopaedics in PT II	4
PT 733	Therapeutic Modalities	1
PT 734	Clinical Skills III	1
	Credit Hours	**9**

Fifth Semester

Fall II (15 weeks)		
PT 701	Neuroanatomy	4
PT 758	PM&BC in PT Practice	1
PT 764	EBP III	1
PT 772	Clin Application Seminar II	1
	Credit Hours	**7**

Sixth Semester

Spring II (15 weeks)		
PT 712	Motor Control & Develop in PT	3
PT 744	Med Pathology in PT IV	3
PT 755	Service Learning Practicum	1
PT 765	EBP IV	1
PT 773	Clin Application Seminar III	1
	Credit Hours	**9**

Third Year

Seventh Semester

Summer III (10 weeks)		
PT 713	Human Movement III	2
PT 748	Pain Science	1
PT 766	EBP V	1
PT 787	Rehab in Select Pops II	2
PT 784	Integumentary	2
	Credit Hours	**8**

Eighth Semester

Fall III (15 weeks)		
PT 702	Neuro Evaluation	1
PT 721	Applied Ex Phys	3
PT 754	Health Care Delivery Systems	1
PT 791	Clinical Internship I	4
	Credit Hours	**9**

Ninth Semester

Spring III (15 weeks)		
PT 704	Neurorehabilitation	4
PT 767	EBP VI	1
PT 783	Cardiopulmonary in PT	4
PT 786	Rehab in Select Pops I	3
	Credit Hours	**12**

Fourth Year

Tenth Semester

Summer IV (11 weeks)		
PT 756	Administration in PT	3
PT 774	Clin Application Seminar IV	1
PT 798	Independent Study	1
PT 799	Integration & Review	1
	Credit Hours	**6**

Eleventh Semester

Fall IV		
PT 788	Rehab in Select Pops III	1
PT 714	Movement Integration	1
PT 789	Ortho III (Primary Care PT)	2
PT 792	Clinical Internship II	6
PT 794	ICEs in PT II	1
	Credit Hours	**11**

Twelfth Semester

Spring IV		
PT 785	Health Promo and Nutrition	2
PT 793	Clinical Internship III	6
	Credit Hours	**8**
	Total Credit Hours	**116**

Physical Therapy, Dual Degree: D.P.T. and M.B.A.

The D.P.T./M.B.A. dual degree program is offered by the College of Health Professions-School of Physical Therapy (SOPT) and the Lewis College of Business (LCOB). The dual D.P.T./M.B.A. degree will enable students to earn a Doctor of Physical Therapy (D.P.T.) degree from the School of Physical Therapy and a Master of Business Administration (M.B.A.) from the Lewis College of Business in four years.

The program is designed for physical therapy students who seek knowledge and experience in business administration to propel their physical therapy career. Many physical therapists find themselves in supervisory, managerial, or practice ownership without having the requisite knowledge of accounting, marketing, organizational behavior, finance, decision-making, information systems, business policy, and strategic planning.

Combining a Doctor of Physical Therapy (DPTI and Master of Business Administration (MBA) in a dual degree program will prepare students for health care leadership positions and will set Marshall University graduates apart from their peers by providing them with business acumen.

Opportunities for D.P.T./M.B.A. graduates include:

- Physical Therapy department Manager
- Executive positions in the health care industry
- Leadership positions in the American Physical Therapy Association
- Private practice ownership

Students admitted to the D.P.T./M.B.A. program will complete the first two years of the D.P.T. curriculum, plus three foundational courses in business (e.g., accounting, economics, finance). Dual degree students will then "step out" (educational leave of absence) of the D.P.T. curriculum to complete a one-year MBA curriculum. Students will then return to the School of Physical Therapy to complete the third year of the D.P.T. program.

1. Students interested in the dual degree (D.P.T./M.B.A.) will indicate interest as part of the PTCAS application. Students must satisfy all the requirements of the regular D.P.T. admissions process.
2. Students accepted into the D.P.T./M.B.A. program must successfully complete the first two semesters (Year 1 -Summer and Fall) of

the D.P.T. curriculum with a minimum of 3.0 GPA or higher on a 4.0 scale. Students who have been on academic or professional probation are not eligible for the dual D.P.T./M.B.A. program.

3. Students must apply to the D.P.T./M.B.A. dual degree program no later than December 1st of their first year of the DPT program.
4. Students will be formally accepted into the dual degree program at the start of the spring semester of the first year and will be scheduled for foundational M.B.A. coursework in the summer of Year Two of the DPT program.

Code	Title	Credit Hours
PT 700	Gross Anatomy for PT	5
PT 710	Clinical Skills I	3
PT 750	Foundations of Phys Ther	2
PT 761	EBP I	2
PT 701	Neuroanatomy	4
PT 711	Kinesiology & Biomechs in PT	3
PT 720	Advanced Clinical Physiology	3
PT 731	Clinical Skills	3
PT 741	Medical Pathology in PT I	2
PT 751	Legal & Ethical Issues in PT	2
PT 712	Motor Control & Develop in PT	3
PT 732	Therapeutic Interventions	3
PT 742	Medical Pathology in PT II	2
PT 744	Med Pathology in PT IV	3
PT 763	EBP II	2
PT 781	Orthopedics in PT I	3
PT 790	ICEs in Physical Therapy I	1
PT 713	Human Movement III	2
PT 747	Pharmacology in Rehab	2
PT 771	Clin Application Seminar I	1
PT 782	Orthopaedics in PT II	4
PT 733	Therapeutic Modalities	1
PT 734	Clinical Skills III	1
PT 748	Pain Science	1
ECN 250	Principles Microeconomics	3
PT 791	Clinical Internship I	4
PT 702	Neuro Evaluation	1
PT 721	Applied Ex Phys	3
PT 754	Health Care Delivery Systems	1
PT 764	EBP III	1
PT 772	Clin Application Seminar II	1
PT 758	PM&BC in PT Practice	1
ACC 215	Intro Financial Accounting(CT)	3
PT 704	Neurorehabilitation	4
PT 755	Service Learning Practicum	1
PT 765	EBP IV	1
PT 773	Clin Application Seminar III	1
PT 783	Cardiopulmonary in PT	4
PT 786	Rehab in Select Pops I	3
FIN 323	Principles of Finance	3
MGT 601	Quant Methods-Business	3
ACC 613	Profit Planning & Control	3
FIN 620	Financial Management	3
ECN 630	Managerial Economics	3
MGT 672	Organizational Behavior	3
MGT 674	Prod/Operation Management	3
MIS 678	Management Infor Systems	3
MKT 682	Adv Marketing Management	3
MGT 699	Strategic Management	3
M.B.A. Elective (advisory approval)		3
M.B.A. Elective (advisor approval)		3
M.B.A. Elective (advisor approval)		3
PT 756	Administration in PT	3
PT 766	EBP V	1
PT 774	Clin Application Seminar IV	1
PT 784	Integumentary	2
PT 787	Rehab in Select Pops II	2
PT 799	Integration & Review	1
PT 788	Rehab in Select Pops III	1
PT 789	Ortho III (Primary Care PT)	2
PT 714	Movement Integration	1
PT 794	ICEs in PT II	1
PT 792	Clinical Internship II	6
PT 793	Clinical Internship III	6
PT 767	EBP VI	1
PT 785	Health Promo and Nutrition	2
Total Credit Hours		**159**

Public Health, Accelerated Graduate Degree

Public Health, Accelerated Graduate Degree

Accelerated Graduate Degree (AGD) in Public Health

An Accelerated Graduate Degree with the B.S. in Health Sciences will allow Health Sciences students to take a full semester load of M.P.H. courses in their final year. Twelve credit hours of undergraduate electives taken in the senior year of the B.S. in Health Sciences will be replaced with 12 credits from the first year of the M.P.H. program. Specifically, the M.P.H. courses for the senior year of the B.S. will include:

Code	Title	Credit Hours
Fall Semester of Senior Year of BS in Health Sciences		
PH 601	Intro Public Health	1
PH 602	Public Health Biology	2
PH 611	Epidemiology	3
Spring Semester		
PH 686	Health Information Technology	3
PH 693	Law and Ethics	3
Total Credit Hours		**12**

Further information may be found in the section on Accelerated Graduate Degree programs in "Academic Regulations and Requirements."

Public Health, M.P.H.

Program Description

The Master of Public Health degree provides education and training to equip students for a broad range of careers including work in public health practice, research and policy. Two concentrations are offered, with a common core composed of training in not only fundamental public health subjects (including epidemiology, biostatistics, environmental health, socio-behavioral factors, and public health services), but also addressing critical cross-cutting competencies.

Students may elect one of two concentrations. Specialization in Global and Community Health (GCH) provides training focused on the critical need for community health professionals skilled in risk assessment, education, intervention, and program management - particularly in communities facing high disease burdens and limited resources. A second concentration in Research, Evaluation and Policy (REP) is designed to train health professionals with advanced training in research methods, biostatistics, analysis, and health policy to equip graduates to help produce systemic improvements in care delivery and value.

Admission Requirements

Students may be admitted to study for either fall or spring semester; however, spring matriculation for study in Research, Evaluation and Policy is made only in exceptional circumstances. Limited credit (6 hours maximum) may be granted to students transferring from CEPH-accredited programs.

Applicants must follow the admissions process at the Graduate Admissions website at www.marshall.edu/graduate/admissions/how-to-apply-for-admission (http://www.marshall.edu/graduate/admissions/how-to-apply-for-admission/). Specific additional program requirements include:

- Admitted students must hold a bachelor's degree from an accepted, accredited college or university with a minimum undergraduate grade-point average of 2.5 on a 4.0 scale. Waivers to the requirement may be made in exceptional circumstances, such as when prior satisfactory graduate school performance has been demonstrated.
- Submission of three (3) letters of recommendation. At least two must from previous faculty if the applicant has engaged in full-time post-secondary study in the previous five years.
- Resume of work history or curriculum vitae, to describe both post-secondary work and study.
- Personal statement not to exceed two pages in length.

Applications are evaluated on a competitive basis, and individual interviews may be utilized in the admissions process.

Program Requirements

The Master of Public Health requires 44 hours of coursework. First-year students gain a strong foundation of a broad core curriculum and are prepared for rotations and employment experiences in just two semesters.

Practicum training is complemented by a second year capstone composed of a comprehensive exam coupled with either a manuscript or a research thesis. The program may be completed in 4 semesters. In addition, three- and four-year study plans permit coordinated dual degree study.

Students choose from concentrations in either Global and Community Health (GCH) or Research, evaluation and Policy (REP).

Students must maintain a Grade Point Average of 3.0 or better throughout the program.

Plan of Study

First Year		
First Semester		**Credit Hours**
PH 601	Intro Public Health	1
PH 602	Public Health Biology	2
PH 611	Epidemiology	3
PH 621	Statistical Methods I	3
PH 671	Community Health	3
	Credit Hours	**12**
Second Semester		
PH 615	Health Sys Research	3
PH 631	Environmental Health	2
PH 641	Social Behavioral Aspects PH	2
PH 642	Health Communications	2
PH 693	Law and Ethics	3
	Credit Hours	**12**
Second Year		
Third Semester		
PH 655	Intro Health Policy	2
PH 661	Chronic Disease	3
PH 672	Global Health	3
PH 694	Practicum	3
	Credit Hours	**11**
Fourth Semester		
PH 651	Public Health Services	2
PH 662	Control of Inf Disease	3
PH 692	Seminar (elective)	1
PH 696	Capstone	3
	Credit Hours	**9**
	Total Credit Hours	**44**

School Social Work, Graduate Certificate

Program Description

This certificate will cover all the knowledge areas that the National Association for Social Work requires for the Certified School Social Work Specialist (C-SSWS), the national certificate for school social

workers. Keep in mind that the C-SSWS requires 2 years of PAID school social work experience prior to sitting for the exam.

M.S.W. students who opt into the SSWPS certificate will be prepared to receive the national certification. Marshall University M.S.W. students will conduct their field internships within a school setting with school social workers. The school social work curriculum consists of the nomenclature, school structure, and the roles of school social workers. Certificate students will attend interprofessional education sessions with College of Education and Professional Development students one time yearly.

Admission Requirements

Who can apply for the SSW certificate program?

- Students currently enrolled in the M.S.W. program
- Marshall graduates who have completed the M.S.W. clinical curriculum
- M.S.W. graduates from other accredited programs
- Graduate students from other programs may take courses from the certificate programs as CEUs or as electives with their department's approval. Transcripts will be reviewed on an individual basis.

Program Requirements

This is a 21-hour certificate program. To qualify for the national exam, certificate students enrolled in the certificate program are required to complete field placements in schools practicing school social work.

Course Requirements

Code	Title	Credit Hours
LS 630	The School and the Community	3
SWK 657	Prevent In School Sw	3
SWK 670	Adv Theory & Pract Child	3
SWK 656	SW In School Settings	3
CISP 520	Intro to Exceptional Child	3
SWK 673	Family & Community Violence	3
SWK 681	Suicidology	3
Total Credit Hours		**21**

Social Work, Accelerated Graduate Degree

Undergraduates accepted to an Accelerated Graduate Degree (AGD) program can begin taking graduate level classes while still in their undergraduate program. These graduate credits can be used for both the undergraduate and graduate level coursework and will help facilitate an easy and fast transition into a graduate program if a student is accepted. To be accepted into the AGD, please see your advisor to see if you qualify for one of these positions.

Undergraduates accepted into an AGD program can begin taking graduate coursework during their junior or senior year. Programs offering an AGD option may allow up to 12 hours of graduate level coursework to also count towards an undergraduate degree.

Graduate coursework/credit will appear only on the graduate transcript, and graduate course grades will be calculated towards the graduate GPA.

Bachelor of Social Work (B.S.W.) Students in their junior year can elect to participate in the Accelerated Graduate Degree in the Masters of Social Work (AGD) by applying to the M.S.W. AGD and taking 500 & 600 level SWK courses rather than undergraduate electives. B.S.W. students typically graduate in December and those who take AGD courses begin the MSW in January. Students will be able to complete the B.S.W./ M.S.W. in 9 semesters.

Eligibility Requirements for AGD Program

- Must have completed at least 60 hours toward the Bachelor's degree;
- Must have at least a 3.30 overall undergraduate GPA;
- Must have at least a 3.30 GPA in the major;
- Must meet the admission requirements of the chosen graduate degree program, apart from the receipt of a bachelor's degree. Students must earn a bachelor's degree to be fully admitted into the graduate degree program.

AGD programs may have admission requirements that differ from the admission requirements for the regular graduate degree. For example, some departments might waive the required admission test, such as the GRE or GMAT. Students should check with the chosen graduate degree program.

How to Apply

1. During the junior or senior year, eligible students should meet with their Undergraduate Advisor and the Director of Graduate Studies of their chosen graduate degree program to develop an AGD plan of study. Any changes to the AGD plan of study must be approved by the undergraduate advisor and director of graduate studies in writing to the dean of the college housing the graduate program.
2. The student's acceptance into the AGD program is subject to the approval of the plan of study by the dean of the college housing the graduate program.
3. Students accepted into the AGD program should apply for admission to the chosen graduate degree program for the first semester after the bachelor's degree is awarded. Admission applications should be submitted during the last semester of the senior year.

Students must maintain a minimum GPA of 3.0 for all graduate credit toward their graduate degree program.

Withdrawal from the AGD

A student may withdraw at any time from the AGD by informing in writing the undergraduate advisor, the director of graduate studies and the dean of the college housing the graduate program. The student's status will then revert to the standard undergraduate degree program. Any graduate hours earned must be approved for use in fulfillment of bachelor's degree requirements by the student's undergraduate dean.

From Undergraduate to Graduate Student

Beginning with the semester after the student has earned the bachelor's degree and has been accepted into a graduate degree program, the student is enrolled in the graduate program and is

assessed tuition and fees at the graduate rate. All rules regarding graduate education will apply to the student once admitted into the graduate degree program.

Social Work, M.S.W.

Program Description

The M.S.W. program has two pathways of entry. For those who do not have the BSW degree, a Generalist (social work foundation) pathway (2 calendar years to complete) is provided, removing the need for applicants to complete the BSW degree. For those with the BSW degree (and who meet additional requirements), an Advanced Standing pathway (1 calendar year to complete) of entry is provided. Those admitted to Generalist status are required to complete 2 calendar years to include 2 summers, and those admitted to Advanced Standing status will be required to complete 1 calendar year to include 1 summer.

Generalist - Online

Students admitted via the Generalist pathway will choose to be admitted to either the online program option or the hybrid/face-to-face program option. Students who choose the online option will complete 1 year of online Generalist courses and matriculate into the **online area of specialization** (**Behavioral Health Administration**). Students choosing the online Generalist pathway must complete the M.S.W. program in its entirety, via the online Behavioral Health Administration Area of Specialization. All courses for the 2-year program are delivered via the Blackboard web-based learning management system (LMS).

Generalist Face-to-Face Hybrid

Students choosing the hybrid/face-to-face Generalist pathway must complete the M.S.W. program in its entirety, via the Behavioral Health Practice Area of Specialization. All courses for the 2-year program are delivered via the Blackboard web-based learning management system (LMS) and face-to-face sessions offered primarily on Friday evenings and Saturday mornings.

Advanced Standing

An applicant for admission to the Master of Social Work program who holds a baccalaureate degree (B.S.W.) from an undergraduate social work program accredited by the Council of Social Work Education may be admitted with Advanced Standing status to one of the MSW Advanced Standing specialization programs. Students who meet all requirements for Advanced standing (**must have completed a Bachelor of Social Work degree- BSW**) and who select the online program option are admitted to the Behavioral Health Administration* area of specialization, which is only offered to those meeting the requirements of Advanced Standing status.

Students who meet all requirements for Advanced standing (**must have completed a Bachelor of Social Work degree - BSW**) and who select the hybrid/face-to-face program option are admitted to the Behavioral Health Practice* area of specialization, which is only offered to those meeting the requirements of Advanced Standing status.

*Behavioral Health Administration is the only M.S.W. program option offered online. Behavioral Health Practice is offered as a hybrid/face-to-face option.

Generalist Pathways

Students entering the M.S.W. program with a degree other than a Bachelor of Social Work (B.S.W.) are eligible for the Generalist two-year program. This two-year curriculum emphasizes a generalist perspective, where the combined impact of various systemic levels (individuals, families, groups, organizations, and communities) on clients' lives is critically analyzed and recognized. The foundation is based on a liberal arts background that promotes an understanding of society as a complex organization of diverse people and ideas.

Social problems are understood as occurring within the nexus of culture, conflict, development, ecology, and systems, and as such, efforts to help or intervene must include consideration of these forces. Students will be able to critically identify and assess social problems, specifically attending to:

1. how such problems are maintained;
2. how they impact the quality of people's lives;
3. cultural sensitivity and appreciation of marginalized people, and
4. how to actively promote social and economic justice.

In the foundation year, the focus is on the development of critical thinking skills in all the areas mentioned.

Advanced Standing /Second Year Generalist Pathways

Area of Specialization in Behavioral Health Practice Face-to-Face/Hybrid Program (1-year)

The advanced practice curriculum seeks to develop the utilization and application of critical thinking relative to behavioral health on all levels - in reading, professional writing, and research, in students' practice, in the classroom, and in the student's own thinking.

The advanced practice curriculum aims to develop and/or enhance the utilization and application of critical thinking skills in behavioral health on all levels- in reading, professional writing and research, assessed through students' practice and in the classroom.

Consistently monitoring practice ethically, evaluating theoretical principles and epistemologies, and utilizing technological advances become basic practice patterns. Specific skill sets developed include:

1. Creating, organizing and integrating ideas and action on engaging diverse client systems effectively in change;
2. Assessing, conceptualizing and analyzing theoretical, practice and research problems from multiple perspectives and utilize critical thinking skills to formulate impressions based upon the data;
3. Analyzing, synthesizing and evaluating the evidence available to guide advanced social work practice;
4. Synthesizing, formulating and implementing a plan of action for social work practice that addresses complex issues and problems, builds consensus and incorporates multiple-level forces on client systems;
5. Analyzing and evaluating data of client progress and outcomes and sees implications and consequences of this progress and outcomes;
6. Synthesizing, creating, and organizing ideas from theory, research and practice for social justice;
7. Demonstrating the ability to integrate culturally competent skills into all aspects of social work practice;

8. Demonstrating the knowledge of the roles of behavioral health providers working in primary care settings, theories and models of care, and cross-cultural issues; and
9. Demonstrating skills in engagement, assessment, intervention planning and implementation, and practice evaluation in the primary and behavioral health care setting.

Area of Specialization in Behavioral Health Administration Online Program (1-year)

The Master of Social Work (M.S.W.) "Online" program is offered only to those students admitted to Advanced Standing status. The Online M.S.W. Program requires the completion of 36 academic credit hours and is offered ONLY ONLINE. Students will not be allowed to take any other face to face or hybrid courses (although they will be allowed to take online and hybrid/face-to-face electives which are identified on the M.S.W. Advanced Standing Online Plan of Study). This program option is designed for students entering the MSW Program who have a Bachelor of Social Work (B.S.W.) degree and meet the requirements for Advanced Standing status. The program will consist of the advanced content (36 credit hours). Those Advanced Standing status students admitted to the M.S.W. Online program require the completion of 36 academic credit hours which includes 9 credit hours of field education. The Advanced Standing Program is for students entering the M.S.W. Program with a B.S.W. degree and who meet specific GPA requirements.

The only way an applicant for admission to the M.S.W. program who DOES NOT hold a baccalaureate degree (B.S.W.) from an undergraduate social work program accredited by the Council of Social Work Education may choose one of the generalist pathways to complete the M.S.W. program.

MSW Program Practicum Education

All Generalist students admitted to the 66-credit hour program are required to satisfactorily complete 900 clock hours (18 credit hours) at approved practicum sites, while Advanced Standing students are required to satisfactorily complete 450 clock hours (9 credit hours), in being admitted to one of the two Advanced Standing areas of specialization.

If employed in a human services agency meeting the department's criteria as a placement site, the student may apply to undertake the practicum at her/his place of employment. This may be accomplished when the agency is willing to shift the student's work role and supervision in such a manner as necessary to meet the school's educational objectives for practicum instruction.

M.S.W. Program Electives

The Marshall University Department of Social Work provides electives to enrich specialized learning in the advanced year. M.S.W. students are required to take two 3-credit-hour electives in their Generalist year and two 3-credit-hour electives in their Specialization year. For example, behavioral health care workers need to have knowledge and understanding pertaining to the complexities of psychopathology, substance use, managed care, AIDS, and a range of other substantive areas. Many school social workers share the need for the same content.

In addition, social workers frequently change jobs, often to another field of practice. Social work education seeks to teach students to think critically, analyze systematically, and know where to find information and resources within the context of social work history, development, and values. This type of education best prepares students to function in a rapidly changing society.

Research and data/outcomes guiding the implementation of the 1-year and 2-year Online M.S.W. Programs

Based on Marshall University's research and current Online Learning programs, more than 600 courses are 100% fully online. These online courses allow students to start—and finish—the online degree of their choice. Marshall's online learning program offers nearly 300 e-courses every semester and serves approximately 17,000 students annually. Marshall's Online-Only M.S.W. program offers off-campus students located in the Tri-State Region of WV, Ohio, and KY an opportunity to complete the MSW degree in a one calendar year timeframe.

With M.S.W. Online Learning from Marshall University in Huntington, WV, M.S.W. students can earn a quality degree completely online while continuing to meet work and family obligations. Students study with the same quality faculty and earn the same degree or certificate as on-campus students.

Marshall University online learning offers many distinct advantages for today's students who need and want:

- Flexibility to fit in classes with professional and personal commitments.
- The opportunity to study for a degree anytime, anywhere, and earn a degree from an accredited and respected university; and
- An affordable college education. Marshall University's M.S.W. Online Only students benefit from a special distance tuition rate that is less than Marshall's regular tuition costs, and out-of-state online students pay the same special rate as West Virginia students. In addition, fully distance education students do not pay fees for on-campus services.

How Does Online Learning Work?

Requirements

Online courses are accessible to students with a wide range of computer experience. At a minimum, you will need a desktop or laptop computer, reliable Internet access, and a webcam and mic. Students should be comfortable using e-mail and accessing the Internet to go online. Blackboard support is available 24/7 and our IT service desk is available to help all students.

Getting started

Marshall's M.S.W. Online program option delivers courses via Blackboard, an online learning management system. Fully online courses are the same as those taught on campus, but delivered asynchronously, so there are no face-to-face or on-site attendance requirements. You can also choose hybrid courses, which combine asynchronous and face-to-face learning delivered through Blackboard Collaborate, a two-way video tool. Review Online Learning FAQs.

Communications

M.S.W. Online students will communicate with M.S.W. instructors using Marshall e-mail, or by using the Blackboard Course Messages tool for online course. Blackboard also posts general information and updates for online students on its News and Alerts pages.

What Are the Online Learning Tuition and Fees?

Fully distance learning students in the M.S.W. Online program pay a prorated distance education tuition based on their level, up to the

appropriate hours cap (12 hours for undergraduate / 9 hours for graduate). M.S.W. Online students must be enrolled in the Online program and be designated as distance education students to receive the special tuition rate.

Admission Requirements

All M.S.W. program options are offered utilizing a cohort model and those admitted begin the M.S.W. program in the Fall Semester of each academic year. Applicants should follow the admissions process described in this catalog or at the Graduate Admissions website: http://www.marshall.edu/graduate/admissions/how-to-apply-for-admission (http://www.marshall.edu/graduate/admissions/how-to-apply-for-admission/). Applications are received in the Marshall University Office of Graduate Admissions via the online application www.marshall.edu/admissions/graduate/ (http://www.marshall.edu/admissions/graduate/) and cc'd to Leslie Lucas beginning in October of the year prior to the applicant's desired admission date. It is recommended that applications be submitted as soon as possible so that they are forwarded by the Office of Graduate Admissions to the M.S.W. Admissions Committee to be reviewed for priority admission by January 30th. Applications will be received and reviewed after the priority date, but it is highly recommended that applications be submitted as early as possible. Applicants are encouraged to check with the Office of Graduate Admissions regarding the completion of their applications. Applications need to be completed prior to being sent to the MSW Admissions Committee and need to include: Two professional references, resume, personal statement, all transcripts (from all colleges and universities attended) sent directly to Graduate Admissions.

Graduate Admissions Application Procedures and Performance Standards

The receipt of a bachelor's degree from an accepted, accredited college or university is the basic requirement for admission as a graduate student to Marshall University and cannot be waived. Applicants must fulfill all admission requirements as specified in the Graduate Catalog. Students enrolled in the last semester of an undergraduate program may be admitted to some programs conditionally for one term subject to completion of the bachelor's degree program and subject to departmental approval.

- Complete and return all pages of the Graduate Application for Admission form to the Graduate Admissions Office.
- When you submit the application, request the Registrar at the institution which awarded your bachelor's degree (except Marshall University) to send an official transcript directly to the Graduate Admissions Office. The transcript from the institution that awarded your bachelor's degree must contain the name of the degree earned and the date the degree was conferred. The Graduate Admissions Office cannot accept unofficial transcripts, including transcripts that are faxed or stamped "Issued to Student," or transcripts mailed or delivered by the student or a third party. Individual schools and programs may require additional credentials or documentation.
- **Provide all other admission materials and letters of recommendation that may be required by the program to which you are applying. NOTE: If your program requires letters of reference, the letters must be original, must be signed and be sent directly to Graduate Admissions. These may be emailed from an identifiable email account of the person providing the reference. Reference letters sent via email need to have the signature of the person providing the reference (signed and scanned). These may be sent to services@marshall.edu and cc'd to Leslie Lucas.**
- Note: Applicants may apply online at **www.marshall.edu/admissions/graduate/**.

Summary of Admissions Policy and Procedures for Notifying Applicants of Admission or Contingency Conditions

- Applicant submits application and all required credentials (as published by program) to Marshall University Graduate Admissions;
- Graduate admissions will review the application and request any additional credentials needed or other items needed to make the application complete;
- When the application is complete, graduate admissions determines if applicants meets basic university admission requirements (baccalaureate degree from accredited school and English proficiency requirement);
- The file is sent to the MSW Program Director, Department of Social Work, via share point, for review and for admission decision;
- Department of Social Work notifies graduate admissions of their decision, via decision sheet with signature (two week turnaround required, unless there is a program deadline that has not yet passed);
- Graduate admissions enters the decision in Banner, sends official, standard Marshall University decision letter with all needed info (901, residency, admission status, etc.);
- Program should then (after Marshall University letter is sent) send the accepted applicant a follow-up letter welcoming them to the program and explaining next steps.

Specialist/Advanced Standing Program

An applicant for admission to the Master of Social Work program who holds a baccalaureate degree from an undergraduate social work program accredited by the Council of Social Work Education may be admitted to with advanced standing. The social work baccalaureate degree from a CSWE accredited institution fulfills the requirements for the MSW foundation year.

The Marshall University Department of Social Work seeks mature students with a demonstrated ability to work with people, emotional stability, good interpersonal skills and the ability to perform well academically. To ensure that entering students meet these standards, the faculty has set the following requirements for Specialist/Advanced Standing applicants holding a BSW degree from a CSWE accredited program:

- A bachelor's degree from an accepted, accredited institution of higher learning;
- A minimum of 27 credit hours in the social sciences, i.e. communications (6), natural sciences (3), humanities (9), and social sciences (9);
- A minimum of three credit hours in each of the following courses: research methodology, and human biology.

Additionally, an undergraduate GPA of 3.00 is recommended to be considered for admission to the Marshall University Master of Social Work program. While we consider applicants whose undergraduate

GPA does not meet this standard, applicants with GPAs less than 2.75 will be considered on a case by case basis.

The application file is complete when all of the following are received by Graduate Admissions:

1. **Completed Graduate Admission application**. Application forms are available **online**.
2. An **official academic transcript** is required from each college/university you have attended, including those at which you were enrolled for academic credit as a non-degree student and/or credits which you transferred to another college. All transcripts must bear the official seal and signature of the institution attended. You must request these transcripts directly from the Registrar or appropriate officer of each institution and ask that they send them directly to Graduate Admissions at Marshall University.
3. **Advanced Standing Admissions:** Applicants who obtained a BSW within the last 7 years from an undergraduate social work program accredited or in candidacy by CSWE with a cumulative GPA of 3.00 and a social work GPA of 3.25 may be eligible to apply to the Advanced Standing 36-hour program. BSW applicants with less than a cumulative 3.0 GPA and a social work GPA of less than 3.25 will rarely be considered for the 30-hour program and will rarely be allowed to transfer social work coursework from their undergraduate degree toward their MSW degree. Additionally, if an Advanced Standing applicant received a grade of "C" or lower in any social work foundation courses as a BSW, they may be asked to re-take these courses by the Admissions Committee as a condition of admission. Applicants who wish to be considered for the 36 hour Advanced Standing program should submit their field evaluations if available, or one of their three letters of recommendation should be from their Director of Field Education, on-site Practicum Supervisor, or Practicum/Practice Instructor if the field evaluation is not accessible.
4. **Admissions Statement:** This statement must be submitted with the application for admission. Submit a carefully written personal statement that addressing the following four topics:

    - Describe a social problem or problem strategy that is of greatest interest to you.
    - Describe your commitment to engage in social work roles that involve social welfare institutions and systems most likely to have an effect on major social problems.
    - Describe in detail how you would insure that your work is relevant to the most economically and socially disadvantaged groups in our society.
    - Describe the intellectual and personal qualifications that will enable you to practice social work successfully.

Note: If there are gaps or deficiencies in your academic record of if you have ever had an academic review, please address these in an addendum to your statement (recommended for all applicants with a GPA of 3.0 or less).

1. **Resume:** Please include current/past employment as well as volunteer and service roles served. This can be emailed to Dr. Peggy Proudfoot Harman at **harman@marshall.edu** after you have submitted your online application.
2. **All Applicants**: If there are gaps or deficiencies in your academic record or if you have ever had an academic review, please explain (recommended for all applicants with a GPA of 3.0 or less)
3. **Two Recommendations:** Provide all admission materials and letters of recommendation. The letters must be original, must be signed and be sent directly to Graduate Admissions. These may be emailed from an identifiable email account of the person providing the reference. Reference letters sent via email need to have the signature of the person providing the reference (signed and scanned). These may be sent to **services@marshall.edu** and cc'd to Leslie Lucas. Click to access the **Letter of Recommendation Request Form**.
4. Note: Applicants may apply online at **www.marshall.edu/admissions/graduate/**.
5. Applicants are encouraged to submit at least one academic recommendation. If the applicant has not enrolled in classes within the past 5 years, this requirement may be waived and an additional work reference substituted. Evaluations should be submitted from persons who have been directly responsible for assessing and supervising your human service related work/volunteer experience and academic performance. Avoid personal references (coworkers, advisors, friends, clergy, personal therapists, etc.). The Marshall University Department of Social Work MSW program requires three recommendation forms, however letters accompanying the forms are welcomed and strongly encouraged. It is highly recommended that applicants who wish to be considered for the 30-hour Specialist/Advanced Standing program should submit their field evaluations if available, or one of their three letters of recommendation should be from their Director of Field Education, on-site Practicum Supervisor, or Practicum/Practice Instructor if the field evaluation is not accessible. The school reserves the right to request additional supportive material from persons acquainted with the applicant's academic and/or practice capabilities.

Specialist/Advanced Standing Online Program

Admission requirements for the Advanced Standing online program are the same as those for the Advanced Standing hybrid/face-to-face program.

Program Requirements

For Conditional and/or Provisional admissions: The student and advisor will develop a Plan of Study or blueprint for graduation requirements. The Plan of Study must be on file in the Graduate College office before the student registers for the 12th semester hour.

Behavioral Health Area of Specialized Practice in:

Behavioral Health Practice OR Behavioral Health Administration

The Behavioral Health Area of Specialized Practice in Behavioral Health Practice (face-to-face/hybrid) OR Behavioral Health Administration (online only) prepares students to conduct clinical social work practice in assessing, treating, and evaluating mental health, substance abuse, and physical health in relation to one another across practice settings. A focus throughout the specialization will be on understanding the multiple factors that influence health disparities and best practices to increase health equity, particularly for marginalized populations. There will be a special emphasis on effectively serving vulnerable populations with multiple needs. The Behavioral Health specialization integrates

Generalist practice by enhancing and expanding on Generalist knowledge, values, and skills in the application of the planned change process across all size systems.

The Behavioral Health specialization extends and enhances the Generalist practice skills of engagement, assessment, planning, intervention, evaluation and termination across all sized systems by incorporating clinical courses focused on Advanced Clinical Social Work in Behavioral Health with Individuals and Families.

Plan of Study

Composition of the Master of Social Work Program Generalist/Foundation

Code	Title	Credit Hours
Curriculum		15
Field		9
Electives		6
Total Credit Hours		**30**

Generalist

The M.S.W. program consists of a foundation-level Generalist curriculum to include the following:

Code	Title	Credit Hours
SWK 501	Foundations of Gen Practice I	3
SWK 511	Foundations of HBSE	3
SWK 521	Foundations of Social Policy	3
SWK 531	Foundations of Gen Practice II	3
SWK 541	Foundations of Research	3
SWK 551	Foundations of Field Practicum (450 work hours)	9

All Generalist 2-year students must complete 66 credits in order to graduate from the program. All students enrolled in the regular 66 credit program must complete two separate (2-3 semesters each) academic yearlong field placements.

Advanced Curriculum - Behavioral Health Practice (Face-to-Face/Hybrid Only)

Advanced Standing status students are granted 30 credit hours for their BSW and take 36 hours of M.S.W. curriculum in an Area of Specialization either in behavioral health practice or behavioral health administration. Advanced Standing status students begin study in the fall and complete the program in the summer of the following year.

Code	Title	Credit Hours
SWK 615	Psychopathology	3
SWK 631	Int Health Models & Pract	3
SWK 633	Adv Clin SW Prac Ind Fam	3

The spring semester includes the following courses:

Code	Title	Credit Hours
SWK 634	Adv SW Prac Gps Com & Org	3
SWK 670	Adv Theory & Pract Child	3
SWK 673	Family & Community Violence	3
SWK 655	Comorb Ment & Phy Disorders	3
SWK 653	Adv Field Practicum (450 work hours)	9
Electives		6

Students who enter the program with Advanced Standing (30 credit hours total) complete only one (1) academic (two semesters) year-long field placement (9 credit hours, 450 work hours).

Advanced Curriculum - Behavioral Health Administration (Online Only)

Advanced Standing status students are granted 30 credit hours for their BSW and take 36 hours of M.S.W. curriculum in an Area of Specialization either in behavioral health practice or behavioral health administration. Advanced Standing status students begin study in the fall and complete the program in the summer of the following year.

Code	Title	Credit Hours
SWK 613	Adv Human Behavior Social Env	3
SWK 614	Adm SWK Pract Behav Health	3
SWK 615	Psychopathology	3
SWK 616	Policy Prac in Beh Health	3
SWK 622	Int Health Policy & Services	3
SWK 642	Adv Social Research I	3
SWK 643	Adv SW Research II	3
SWK 653	Adv Field Practicum	9
Electives		6
Total Credit Hours		**36**

Students who enter the program with Advanced Standing (30 credit hours total) complete only one (1) academic (two semesters) year-long field placement (9 credit hours, 450 work hours).

- Advanced Standing Behavioral Health Administration, Emphasis (p. 242)
- Behavioral Health Practice, Emphasis (p. 243)

Advanced Standing Behavioral Health Administration, Emphasis

Advanced Standing Behavioral Health Administration, Emphasis

M.S.W. Advanced Standing Behavioral Health Administration - Online Only Program

The Master of Social Work (M.S.W.) “Online Only” Program is offered only to those students admitted to Advanced Standing status. The Online Only M.S.W. program requires the completion of 36 academic credit hours and is offered ONLY ONLINE. Students will not be allowed to take any other face to face or hybrid courses (although they will be allowed to take online and some hybrid electives which will be discussed between the student and the student's advisor. This program option is designed for students entering the M.S.W. program who have a Bachelor of Social Work (B.S.W.) degree and meet the requirements for Advanced Standing status. The program will consist of the advanced content (36 credit hours). Those Advanced Standing status students admitted to the M.S.W. Online Only program option

require the completion of 36 academic credit hours which includes 9 credit hours of field education. The Advanced Standing program is for students entering the M.S.W. Program with a B.S.W. degree and who meet specific GPA requirements.

An applicant for admission to the Master of Social Work program who holds a baccalaureate degree from an undergraduate social work program accredited by the Council of Social Work Education may be admitted with advanced standing status.

Code	Title	Credit Hours
SWK 613	Adv Human Behavior Social Env	3
Social Work elective (Advanced Behavioral Health)		3
SWK 614	Adm SWK Pract Behav Health	3
SWK 616	Policy Prac in Beh Health	3
SWK 622	Int Health Policy & Services	3
SWK 642	Adv Social Research I	3
SWK 643	Adv SW Research II	3
SWK 653	Adv Field Practicum	9
Social Work elective (Advanced Behavioral Health focus)		3
SWK 615	Psychopathology	3
Total Credit Hours		**36**

Behavioral Health Practice, Emphasis

Behavioral Health Practice, Emphasis

Generalist Program Option

Code	Title	Credit Hours
SWK 501	Foundations of Gen Practice I	3
SWK 511	Foundations of HBSE	3
SWK 521	Foundations of Social Policy	3
SWK 531	Foundations of Gen Practice II	3
SWK 541	Foundations of Research	3
SWK 551	Foundations of Field Practicum	9
SWK 615	Psychopathology	3
SWK 631	Int Health Models & Pract	3
SWK 633	Adv Clin SW Prac Ind Fam	3
SWK 634	Adv SW Prac Gps Com & Org	3
SWK 653	Adv Field Practicum (taken three times at 3 hrs each)	9
SWK 655	Comorb Ment & Phy Disorders	3
SWK 670	Adv Theory & Pract Child	3
SWK 673	Family & Community Violence	3
SWK Elective Option 1		3
SWK Elective Option 2		3
SWK Elective Option 3		3
SWK Elective Option 4		3
Total Credit Hours		**66**

advanced Standing Option

Code	Title	Credit Hours
SWK 615	Psychopathology	3
SWK 631	Int Health Models & Pract	3
SWK 633	Adv Clin SW Prac Ind Fam	3
SWK 634	Adv SW Prac Gps Com & Org	3
SWK 670	Adv Theory & Pract Child	3
SWK 673	Family & Community Violence	3
SWK 655	Comorb Ment & Phy Disorders	3
SWK 653	Adv Field Practicum	9
SWK Elective Option 1		3
SWK Elective Option 2		3
Total Credit Hours		**36**

Generalist Plan of Study

First Year		
First Semester		**Credit Hours**
SWK 501	Foundations of Gen Practice I	3
SWK 511	Foundations of HBSE	3
SWK 541	Foundations of Research	3
SWK Elective 1 or 2		3
	Credit Hours	**12**
Second Semester		
SWK 531	Foundations of Gen Practice II	3
SWK 521	Foundations of Social Policy	3
SWK 551	Foundations of Field Practicum	3
SWK Elective 1 or 2		3
	Credit Hours	**12**
Second Year		
Summer		
SWK 551	Foundations of Field Practicum	6
SWK 631	Int Health Models & Pract	3
	Credit Hours	**9**
First Semester		
SWK 615	Psychopathology	3
SWK 633	Adv Clin SW Prac Ind Fam	3
SWK 653	Adv Field Practicum	3
SWK Electve Option 3 or 4		3
	Credit Hours	**12**
Second Semester		
SWK 670	Adv Theory & Pract Child	3
SWK 634	Adv SW Prac Gps Com & Org	3
SWK 653	Adv Field Practicum	3
SWK Electve Option 3 or 4		3
	Credit Hours	**12**
Third Year		
Summer		
SWK 673	Family & Community Violence	3
SWK 655	Comorb Ment & Phy Disorders	3

SWK 653	Adv Field Practicum	3
	Credit Hours	**9**
	Total Credit Hours	**66**

Advanced Standing Plan of Study

Second Year

First Semester		**Credit Hours**
Fall		
SWK 615	Psychopathology	3
SWK 673	Family & Community Violence	3
SWK 633	Adv Clin SW Prac Ind Fam	3
SWK 653	Adv Field Practicum	3
SWK Elective Option I (or SWK Elective Option 2)		3
	Credit Hours	**15**
Second Semester		
Spring		
SWK 670	Adv Theory & Pract Child	3
SWK 634	Adv SW Prac Gps Com & Org	3
SWK 631	Int Health Models & Pract	3
SWK 653	Adv Field Practicum	3
SWK Elective Option 1 (or SWK Elective Option 2)		3
	Credit Hours	**15**
Third Semester		
Summer		
SWK 653	Adv Field Practicum	3
SWK 655	Comorb Ment & Phy Disorders	3
(If not taken in prior semester: SWK Elective Option 1 or Option 2)		
	Credit Hours	**6**
	Total Credit Hours	**36**

Some courses are offered more than one time a year to provide flexibility. Elective courses vary by semester.

Sports Science, M.S.

The **Sports Science major** at Marshall University, housed within the School of Health and Movement Sciences (SHMS), integrates exercise science, biomechanics, physiology, and technology to optimize athletic performance and human movement. Designed for students passionate about enhancing sports performance through data-driven decision-making, this program provides a comprehensive understanding of the physiological, biomechanical, and psychological factors influencing athletic success.

Students engage in cutting-edge coursework and hands-on experiences, utilizing technology, like athlete monitoring technologies, GPS tracking, force platforms, and metabolic testing, to analyze and enhance performance. The curriculum emphasizes sports analytics, training program design, and physiological assessment, preparing students for careers in strength and conditioning, performance analysis, injury prevention, and applied sports research.

Graduates of the Sports Science major are well-positioned to work with collegiate and professional sports teams, sports performance labs, private training facilities, and tactical athlete programs. Additionally, this program provides an excellent foundation for those pursuing advanced degrees in sports science, biomechanics, athletic training, or physical therapy. With a strong emphasis on innovation, research, and evidence-based practice, this program equips students with the expertise to push the boundaries of human performance and athlete development.

Admission Requirements

Prospective students must meet the minimum criteria listed below to be considered for admission to the program:

- Admission to Marshall University Graduate School,
- Declare a Health and Movement Sciences major of biomechanics, exercise physiology, sports science, or strength and conditioning,
- An Undergraduate Grade Point Average of 2.75 or higher on a 4.0 scale for all previously completed undergraduate university work,
- An appropriate undergraduate/graduate background that includes human anatomy, human physiology, exercise physiology, and physics,
- Three letters of reference;
- Personal statement; and
- A scholarly writing sample.

Acceptance into the M.S. Health and Movement Sciences program is competitive and not guaranteed.

Students are restricted to twelve semester hours of transfer credit from other institutions and limited to a maximum of nine semester hours taught at the 500 level.

Graduation Requirements

Completion of one of the following approved by your academic advisor:

(1) thesis HS 681 Thesis

(2) oral presentation of internship HS 660 Internship& pilot research project

(3) graduate project

Course Requirements

Code	Title	Credit Hours
DTS 671	Sports Nutrition	3
ESS 621	Adv Exercise Physiology I	3
ESS 642	Devise Train & Cond Prog	3
ESS 670	Research Meth in Kinesiology	3
HS 505	Sport Psychology	3
HS 566	Biomechanical Analysis	3
HS 576	Seminar in Sports Science	3
HS 665	Sports Science Practicum	3
STA 518	Biostatistics	3
Restricted Elective		3
HS 681	Thesis	6
or HS 660	Internship	
Total Credit Hours		**36**

Plan of Study

First Year		
First Semester		**Credit Hours**
ESS 670	Research Meth in Kinesiology	3
ESS 621	Adv Exercise Physiology I	3
HS 566	Biomechanical Analysis	3
	Credit Hours	**9**
Second Semester		
DTS 671	Sports Nutrition	3
HS 505	Sport Psychology	3
ESS 642	Devise Train & Cond Prog	3
	Credit Hours	**9**
Second Year		
First Semester		
HS 665	Sports Science Practicum	3
HS 576	Seminar in Sports Science	3
Restricted Elective		3
	Credit Hours	**9**
Second Semester		
HS 681 or HS 660	Thesis or Internship	6
STA 518	Biostatistics	3
	Credit Hours	**9**
	Total Credit Hours	**36**

Strength and Conditioning, M.S.

The **Strength and Conditioning (S&C) major** is designed to prepare students for careers in athletic performance enhancement through evidence-based training methodologies. This program integrates exercise science, biomechanics, and sports performance principles to develop highly skilled professionals in the field.

Students engage in advanced coursework and hands-on training, including strength and power development, conditioning strategies, athlete monitoring technologies, and program design. The curriculum emphasizes scientific analysis, data-driven decision-making, and practical coaching applications, ensuring graduates are prepared for careers in collegiate and professional athletics, tactical strength and conditioning, private sports performance facilities, and applied research.

This major is ideal for individuals seeking CSCS certification and aiming to work as strength coaches, high-performance specialists, or applied sports scientists within all sports settings. Additionally, the program provides a strong foundation for those pursuing advanced education in athletic training, physical therapy, or other healthcare professions, equipping them with the knowledge and experience necessary for success in rehabilitation, injury prevention, and return-to-play protocols.

Admission Requirements

Prospective students must meet the minimum criteria listed below to be considered for admission to the program:

- Admission to Marshall University Graduate School,
- Declare a Health and Movement Sciences major of biomechanics, exercise physiology, sports science, or strength and conditioning,
- An Undergraduate Grade Point Average of 2.75 or higher on a 4.0 scale for all previously completed undergraduate university work,
- An appropriate undergraduate/graduate background that includes human anatomy, human physiology, exercise physiology, and physics,
- Three letters of reference;
- Personal statement; and
- A scholarly writing sample.

Acceptance into the M.S. Health and Movement Sciences program is competitive and not guaranteed.

Students are restricted to twelve semester hours of transfer credit from other institutions and limited to a maximum of nine semester hours taught at the 500 level.

Graduation Requirements

Completion of one of the following approved by your academic advisor:

(1) ESS 681 Thesis

(2) oral presentation of ESS 660 Internship & pilot research project

(3) graduate project

Course Requirements

Code	Title	Credit Hours
DTS 671	Sports Nutrition	3
ESS 601 or HS 566	Adv Exercise Testing Biomechanical Analysis	3
ESS 621	Adv Exercise Physiology I	3
ESS 642	Devise Train & Cond Prog	3
ESS 650	Drug and Sport	3
ESS 670	Research Meth in Kinesiology	3
ESS 692	Strength & Condit Clin Fld Exp	3
HS 505	Sport Psychology	3
HS 510	Org and Admin in Kinesiology	3
HS 564 or HS 566	Professional Development (Pathomechanics) Biomechanical Analysis	3
STA 518	Biostatistics	3
ESS 681 Thesis or ESS 660 Internship		6
Total Credit Hours		**39**

Plan of Study

First Year		
First Semester		**Credit Hours**
ESS 670	Research Meth in Kinesiology	3
ESS 621	Adv Exercise Physiology I	3
HS 564 Pathomechanics or HS 566 Biomechanical Analysis		3
	Credit Hours	**9**
Second Semester		
DTS 671	Sports Nutrition	3
HS 505	Sport Psychology	3
ESS 642	Devise Train & Cond Prog	3
STA 518	Biostatistics	3
	Credit Hours	**12**
Second Year		
First Semester		
ESS 601	Adv Exercise Testing	3
HS 510	Org and Admin in Kinesiology	3
ESS 692	Strength & Condit Clin Fld Exp	3
	Credit Hours	**9**
Second Semester		
ESS 681 or ESS 660	Thesis or Internship	6
ESS 650	Drug and Sport	3
	Credit Hours	**9**
	Total Credit Hours	**39**

College of Liberal Arts

Contacts: Dr. Kelli Prejean, Interim Dean
Website: http://www.marshall.edu/cola (http://www.marshall.edu/cola/)

cola@marshall.edu

Programs

- Accessibility Awareness, Graduate Certificate (p. 274)
- Aging in Appalachia, Graduate Certificate (p. 274)
- Anthropology, Minor (p. 275)
- Appalachian Studies, Graduate Certificate (p. 275)
- Behavioral Statistics, Graduate Certificate (p. 275)
- Communication Studies, M.A. (p. 276)
- English, M.A. (p. 276)
- Geography M.A., Accelerated Graduate Degree (p. 277)
- Geography M.S., Accelerated Graduate Degree (p. 278)
- Geography, M.A. (p. 279)
- Geography, M.S. (p. 280)
- Geography, Minor (p. 281)
- Geospatial Information Science, Graduate Certificate (p. 282)
- History, M.A. (p. 283)
- History, Minor (p. 284)
- Human Geography, Graduate Certificate (p. 284)
- Humanities, M.A. (p. 284)
- Latin, Graduate Certificate (p. 285)
- Meteorology, Graduate Certificate (p. 286)
- Nonprofit Management, Graduate Certificate (p. 286)
- Philosophy, Minor (p. 286)
- Psychology (Clinical), Post-Master's Certificate (p. 286)
- Psychology (Clinical), Psy.D. (p. 287)
- Psychology, Accelerated Graduate Degree (p. 292)
- Psychology, M.A. (p. 293)
- Psychology, Minor (p. 296)
- Public Administration, Accelerated Graduate Degree (p. 296)
- Public Administration, M.P.A. (p. 297)
- Public History, Graduate Certificate (p. 299)
- Sociology, Accelerated Graduate Degree (p. 299)
- Sociology, M.A. (p. 300)
- Sociology, Minor (p. 301)
- Women's Studies, Graduate Certificate (p. 302)

Courses

Anthropology

ANT 511 Deconstructing Appalachia **3 Credit hours**
Exploration of the historical and cultural significance of Appalachia in the American experience and imagination.
Grade Mode: Normal Grading Mode

ANT 512 Appalachian Field Exp I **3 Credit hours**
Supervised fieldwork in an Appalachian community studying the social and cultural characteristics of the area.
Pre-req: ANT 511.
Grade Mode: Normal Grading Mode

ANT 528 Arch Theory and Analysis **3 Credit hours**
An introduction to archaeological theory and its application to the material record of cultures past and present.
Grade Mode: Normal Grading Mode

ANT 540 African Cultures **3 Credit hours**
Comparative analysis of the ethnic groups of Africa using archaeological and ethnographic data.
Grade Mode: Normal Grading Mode

ANT 564 Design Planning & Health **3 Credit hours**
Social scientific study of how places where people live, work, and recreate affect quality of life and overall health with an emphasis on design decisions within urban and regional planning.
Grade Mode: Normal Grading Mode

ANT 565 Disaster, Culture & Health **3 Credit hours**
Study of contemporary environmental and social problems emphasizing health impacts of natural and technological disasters on communities around the world.
Grade Mode: Normal Grading Mode

ANT 566 Culture and Environment **3 Credit hours**
This course will examine the symbolic and structural dimensions of struggles over defining, organizing, and controlling the natural environment from a biocultural perspective.
Grade Mode: Normal Grading Mode

ANT 567 Culture through Ethnography **3 Credit hours**
In depth exploration and comparison of diverse cultural groups through reading and discussing ethnographic texts.
Grade Mode: Normal Grading Mode

ANT 568 National Identity **3 Credit hours**
Exploration of the cultural, political and economic processes that contribute to the creation and maintenance of the modern nation state as an imagined community.
Grade Mode: Normal Grading Mode

ANT 572 Language Gender Body **3 Credit hours**
Uses methods and theories from anthropology, linguistics, and sociology to examine how gendered bodies in different cultures are constructed through ways of acting in the social world.
Grade Mode: Normal Grading Mode

ANT 580 Special Topics **1-4 Credit hours**
Study of topics of interest not covered in regularly scheduled classes.
Grade Mode: Normal Grading Mode

ANT 581 Special Topics **1-4 Credit hours**
Study of topics of interest not covered in regularly scheduled classes.
Grade Mode: Normal Grading Mode

ANT 582 Special Topics **1-4 Credit hours**
Study of topics of interest not covered in regularly scheduled classes.
Grade Mode: Normal Grading Mode

ANT 583 Special Topics **1-4 Credit hours**
Study of topics of interest not covered in regularly scheduled classes.
Grade Mode: Normal Grading Mode

ANT 585 Independent Study **1-4 Credit hours**
Individual study of topics not offered in regularly scheduled classes.
Grade Mode: Normal Grading Mode

ANT 586 Independent Study **1-4 Credit hours**
Individual study of topics not offered in regularly scheduled classes.
Grade Mode: Normal Grading Mode

ANT 587 Independent Study **1-4 Credit hours**
Individual study of topics not offered in regularly scheduled classes.
Grade Mode: Normal Grading Mode

ANT 588 Independent Study **1-4 Credit hours**
Individual study of topics not offered in regularly scheduled classes.
Grade Mode: Normal Grading Mode

ANT 591 Theory in Ethnology **3 Credit hours**
Introduction to major theoretical traditions of cultural anthropology with emphasis on the connection between fieldwork and development of theory.
Grade Mode: Normal Grading Mode

ANT 600 Ethnographic Research **3 Credit hours**
An advanced project-based introduction to ethnographic research design and practice.
Grade Mode: Normal Grading Mode

ANT 609 Professionial Development **3 Credit hours**
Individual study of topics not offered in regularly scheduled classes.
Grade Mode: Normal Grading Mode

ANT 685 Independent Study **1-4 Credit hours**
Individual study of topics not offered in regularly scheduled classes.
Grade Mode: Normal Grading Mode

ANT 686 Independent Study **1-4 Credit hours**
Individual study of topics not offered in regularly scheduled classes.
Grade Mode: Normal Grading Mode

ANT 687 Independent Study **1-4 Credit hours**
individual study of topics not offered in regularly scheduled classes.
Grade Mode: Normal Grading Mode

ANT 688 Independent Study **1-4 Credit hours**
Individual study of topics not offered in regularly scheduled classes.
Grade Mode: Normal Grading Mode

Arts & Society - Humanities

A&S 500 Prds/Mvmts Wstrn Art & Music **3 Credit hours**
The course relates major periods, schools, and movements to the culture of the place and time. May be repeated for a maximum of 6 hours.
Grade Mode: Normal Grading Mode

A&S 501 Stdys/Non-Western Art & Music **3 Credit hours**
Studies emphasizing non-Western art or music (e.g., Chinese art; art of the Middle East). May be repeated for a maximum of 6 hours.
Grade Mode: Normal Grading Mode

A&S 510 Comparative Arts **3 Credit hours**
Study of artistic movements and specific stypistic features in art, music and literature. May be repeated for a maximum of 6 hours.
Grade Mode: Normal Grading Mode

A&S 550 Sunrise Internship **3 Credit hours**
A specially designed project under the guidance of specialists at Sunrise Museums (requires special permission from the program dirtector and Sunrise Museums).
Grade Mode: Normal Grading Mode

A&S 560 Film Art & Popular Media **3 Credit hours**
A consideration of films as the successors to earlier popular literature. Relevant aspects of media history and techniques will be examined.
Grade Mode: Normal Grading Mode

A&S 600 Selected Topics in Arts & Soc **1-6 Credit hours**
Selected topics in arts and society. The specific topic will be announced in the schedule of classes. Students may take up to nine hours in selected topics.
Grade Mode: Normal Grading Mode

A&S 620 Selected Topics/Decorative Art **1-6 Credit hours**
Selected topics in history and practices of decorative arts (e.g., interior design, furniture styles, architecture)
Grade Mode: Normal Grading Mode

Communication Studies

CMM 501 Organizational Communication **3 Credit hours**
Study of communication processes in business and professional settings and how applying organizational communication theory and research can address the current issues and problems that organizations experience
Grade Mode: Normal Grading Mode

CMM 506 Interviewing **3 Credit hours**
Skill development in the question-answer-response process as it applies to a variety of interiewing situations.
Grade Mode: Normal Grading Mode

CMM 508 Leadership Comm and Ethics **3 Credit hours**
Study of the role of communication leaders in fostering ethical communication climates in personal, professional, and civic contexts through effective and inclusive decision-making, problem-solving, and interpersonal or group interactions.
Grade Mode: Normal Grading Mode

CMM 509 Theory Persuasion Change **3 Credit hours**
Study of the relationship between persuasion and social change, including theories of attitude and behavioral change and contemporary theories of persuasion.
Grade Mode: Normal Grading Mode

CMM 556 Communication and Technology **3 Credit hours**
Study of the characteristics and functionality of new and emerging communication technologies. Students will apply theory and research to understand communication technology's effects on the self, others, and society.
Grade Mode: Normal Grading Mode

CMM 576 Comm Skills for Teachers **3 Credit hours**
This course focuses on developing instructional communication competence that can be applied to creating course and instructional materials, classroom management, assessing and evaluating learning and more.
Grade Mode: Normal Grading Mode

CMM 580 Special Topics **1-4 Credit hours**
PR: Permission of chair.
Grade Mode: Normal Grading Mode

CMM 581 Special Topics **1-4 Credit hours**
PR: Permission of chair.
Grade Mode: Normal Grading Mode

CMM 582 Special Topics **1-4 Credit hours**
PR: Permission of chair.
Grade Mode: Normal Grading Mode

CMM 583 Special Topics **1-4 Credit hours**
PR: Permission of chair.
Grade Mode: Normal Grading Mode

CMM 585 Independent Study **1-4 Credit hours**
PR: Permission of chair.
Grade Mode: Normal Grading Mode

CMM 586 Independent Study **1-4 Credit hours**
PR: Permission of chair.
Grade Mode: Normal Grading Mode

CMM 587 Independent Study **1-4 Credit hours**
PR: Permission of chair.
Grade Mode: Normal Grading Mode

CMM 588 Independent Study **1-4 Credit hours**
PR: Permission of chair.
Grade Mode: Normal Grading Mode

CMM 601 Quantitative Research in Comm **3 Credit hours**
Study of how basic quantitative research methods such as surveys, content analysis, and experiments are used to understand, explain, and analyze communication processes.
Grade Mode: Normal Grading Mode

CMM 602 Communication and Consulting **3 Credit hours**
An in-depth analysis of diagnostic and intervention strategies employed by communication consultants. Strategies include communication network analysis, communication process observation and consultation, communication role and norm negotiation, and team building.
Grade Mode: Normal Grading Mode

CMM 603 Nonverbal Communication **3 Credit hours**
This course examines the major dimensions of study in nonverbal communication, and the functions and effects of nonverbal messages.
Grade Mode: Normal Grading Mode

CMM 605 Qualitative Research in Comm **3 Credit hours**
Study of how qualitative research methods such as participant observation, interviewing, focus groups, and ethnography can be used to understand the role of communication in constructing social realities.
Grade Mode: Normal Grading Mode

CMM 606 Engaging Comm Theories **3 Credit hours**
Study of the philosophical foundations, theoretical perspectives, and historical development of the communication discipline and how communication theories are developed, analyzed, evaluated, and applied.
Grade Mode: Normal Grading Mode

CMM 620 Communication & Conflict **3 Credit hours**
An exploration of the theory, research, and practice of communication in understanding and negotiating interpersonal conflict.
Grade Mode: Normal Grading Mode

CMM 650 Innovative Comm Education **3 Credit hours**
Students analyze trends such as universal design for learning, classroom technology and AI, assessment-driven curricular enhancement, and social-emotional learning to understand their potential to innovate and evolve communication education practices.
Grade Mode: Normal Grading Mode

CMM 658 Communication and Technology **3 Credit hours**
Study of characteristics and functionality of new and emerging communication technologies. Students will apply theory and research to understand communication technology's effects on the self, others, and society.
Grade Mode: Normal Grading Mode

CMM 670 Interpersonal Health Comm **3 Credit hours**
Explores communication demands of human healthcare and healthcare promotion; examines communication controversies in the modern healthcare system, and examines communication strategies to resolve healthcare problems.
Grade Mode: Normal Grading Mode

CMM 671 Health Comm Campaigns **3 Credit hours**
Examines communication processes that influence human behavior and public policy through health promotion campaigns, including theories and practices of health behavior change and designing, implementing, and evaluating health communication interventions.
Grade Mode: Normal Grading Mode

CMM 673 Interpersonal Communication **3 Credit hours**
Explore how interpersonal communication influences the formation, maintenance, and dissolution of relational connections while developing interpersonal communication competence to improve relationships.
Grade Mode: Normal Grading Mode

CMM 674 Communication Pedagogy **3 Credit hours**
Explore and evaluate communication theories and research on the cognitive, rhetorical, and relational aspects of teaching and learning. Open to teachers, adjunct instructors, or graduate students in any discipline.
Grade Mode: Normal Grading Mode

CMM 675 Seminar **1-3 Credit hours**
Program of study not normally covered in other courses. Topics vary from semester to semester.
Grade Mode: Normal Grading Mode

CMM 676 Seminar **1-3 Credit hours**
Program of study not normally covered in other courses. Topics vary from semester to semester.
Grade Mode: Normal Grading Mode

CMM 677 Special Topics **1-3 Credit hours**
Program of study not normally covered in other courses. Topics vary from semester to semester.
Grade Mode: Normal Grading Mode

CMM 678 Special Topics **1-3 Credit hours**
Program of study not normally covered in other courses. Topics vary from semester to semester.
Grade Mode: Normal Grading Mode

CMM 680 Grant Writing for Nonprofits **3 Credit hours**
Provides a communication framework for analyzing a nonprofit organization; reviews the steps in grant writing; matches the needs of the nonprofit organization's needs with the grant fund; and examines the material required to write a successful grant.
Grade Mode: Normal Grading Mode

CMM 681 Thesis **1-6 Credit hours**
Attributes: No Textbook Required, Thesis
Grade Mode: Normal Grading Mode

CMM 685 Independent Study **1-4 Credit hours**
PR: Permission of chair.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

CMM 686 Independent Study **1-4 Credit hours**
PR: Permission of chair.
Grade Mode: Normal Grading Mode

CMM 687 Independent Study **1-4 Credit hours**
PR: Permission of chair.
Grade Mode: Normal Grading Mode

CMM 688 Independent Study **1-4 Credit hours**
PR: Permission of chair.
Grade Mode: Normal Grading Mode

CMM 689 Internship **1-3 Credit hours**
Supervised work experience in communication. (PR: Permission of Department Chair)
Attributes: No Textbook Required, Onsite Learning Experience
Grade Mode: Normal Grading Mode

Cultural Studies-Humanities

CULS 500 Stdys in Thought & Culture **3 Credit hours**
Basic concepts and cultural expressions in words, principally of area or period studies, such as classical Western, medieval Western, modern European and American.
Grade Mode: Normal Grading Mode

CULS 530 Appr to Communic Criticism **3 Credit hours**
Course examines the theoretical approaches to criticism across the broad range of media, with focus on the philosophy behind each and on their various applications.
Grade Mode: Normal Grading Mode

CULS 540 World Religions **3 Credit hours**
Study of several religions as they developed within their individual times and cultures.
Grade Mode: Normal Grading Mode

CULS 550 Ethics **3 Credit hours**
A critical examination of ethical theories as seen in a detailed examination of several works. Theories may include naturalism, intuitionism, non-cognitivism, unitarianism, and natural law.
Grade Mode: Normal Grading Mode

CULS 560 History of Ideas **3 Credit hours**
A study of the efforts of philosophers to construct general conceptions of the world. Recent approaches in the investigation of oncology and cosmology will be examined.
Grade Mode: Normal Grading Mode

CULS 600 Selected Topics in Cultural St **1-6 Credit hours**
Selected topics in an area of cultural studies. The specific topic will be announced in the schedule of classes. Students may take up to nine hours in selected topics.
Grade Mode: Normal Grading Mode

CULS 610 Seminar in Appalachian Culture **3 Credit hours**
Exploration of selected aspects of culture (e.g., art, music folklore, history, literature), emphasizing regional culture from an interdisciplinary perspective.
Grade Mode: Normal Grading Mode

CULS 611 Appal Std: Themes & Voices **3 Credit hours**
This interdisciplinary course orients students to the significant issues and research in Appalachian studies. Important political, social, and cultural issues will be considered. Research areas are introduced.
Grade Mode: Normal Grading Mode

CULS 612 Time & Place in Appalachia **3 Credit hours**
This interdisciplinary course orients students to the importance of geography, topography, and geology to the history and development fo the Appalachian region.
Grade Mode: Normal Grading Mode

CULS 620 Women/Men & Cultural Change **3 Credit hours**
A study of gender differences from sociological and philosophical perspectives. Topical areas covered include communications, law, literature, popular culture, ethics, and business.
Grade Mode: Normal Grading Mode

CULS 650 Classical Fdtns Comm Studies **3 Credit hours**
Cause surveys major contributions to rhetorical theory during the classical period and the development of rhetorical criticism in the centuries since. Philosophers/ writers will include Plato, Aristotle, Cicero and Quintilian
Grade Mode: Normal Grading Mode

CULS 651 1st Amendment-Social/Ed Issues **3 Credit hours**
Grade Mode: Normal Grading Mode

CULS 652 Communications/Social Mvmts **3 Credit hours**
Course examines the role of communication in successful social movements. Contemporary reform movements are analyzed to determine communication strategies, organizational issues, leadership concerns and rhetorical focus.
Grade Mode: Normal Grading Mode

CULS 653 Media & the Political Process **3 Credit hours**
An introduction to the study of political rhetoric, the course relates rhetorical theory to political communiction and considers the impact of political communication in government, the electoral process, and society.
Grade Mode: Normal Grading Mode

English

ENG 500 Listening/Speaking in Context **3 Credit hours**
This course promotes the development of English language fluency by nonnative speakers of English. It specifically targets the language skills necessary for successful oral communication within a graduate school context.
Grade Mode: Normal Grading Mode

ENG 501 Reading in Context **3 Credit hours**
This course prepares nonnative speakers of English to meet the challenges of reading for academic purposes at the graduate college level by improving their reading skills and English language proficiency.
Grade Mode: Normal Grading Mode

ENG 502 Comp & Rhet for Teachers **3 Credit hours**
Study of rhetorical invention and models of composing process, with intensive practice in writing.
Grade Mode: Normal Grading Mode

ENG 505 History English Language **3 Credit hours**
The phonology, spelling, grammar, syntax, and vocabulary of previous language periods as background to Modern English.
Grade Mode: Normal Grading Mode

ENG 506 Composition in Context **6 Credit hours**
This course for nonnative speakers of English focuses on written English within a graduate school context. Attention is placed on grammar, mechanics, research, American English rhetorical conventions, and process writing.
Grade Mode: Normal Grading Mode

ENG 507 Writing, Editing & Doc Design **3 Credit hours**
Study of the principles and practices of professional writing, editing, and document design.
Grade Mode: Normal Grading Mode

ENG 508 Writing in the Digital World **3 Credit hours**
Development of writing skills and strategies with an emphasis on digital texts and genres.
Grade Mode: Normal Grading Mode

ENG 509 Milton **3 Credit hours**
Biographical and critical study, including Milton's English poetry and prose, and his literary and intellectual milieu.
Grade Mode: Normal Grading Mode

ENG 510 Shaks Comedy Tragedy & Rom **3 Credit hours**
Intensive study of Shakespeare's comedies, tragicomedies and late romances. Also includes the Sonnets and Venus and Adonis.
Grade Mode: Normal Grading Mode

ENG 511 Chaucer **3 Credit hours**
The poetry of Chaucer, including the Canterbury Tales, in the light of medieval tradition and critical analysis.
Grade Mode: Normal Grading Mode

ENG 512 Shaks Hist & Tragedies **3 Credit hours**
Intensive study of Shakespeare's histories and Tragedies.
Grade Mode: Normal Grading Mode

ENG 514 19th Cent English Novel **3 Credit hours**
Austen, Scott, the Brontes, Eliot, Dickens, Thackeray, Trollope, Meredith, Hardy, Butler, Wilde, and their contemporaries.
Grade Mode: Normal Grading Mode

ENG 515 Victorian Poetry **3 Credit hours**
Emphasis on Tennyson, the Brownings, Arnold, Hopkins, Christina Rossetti, Hardy and the pre-Raphaelites.
Grade Mode: Normal Grading Mode

ENG 516 Victorian Nonfiction **3 Credit hours**
Essays, speeches, treasties, and other works from Britain's Victorian age. Includes such authors as Arnold, Carlyle, Darwin, Huxley, Eliot, Martineau, Mill, Newman, and others.
Grade Mode: Normal Grading Mode

ENG 517 English Drama to 1642 **3 Credit hours**
Non-Shakespearean English drama from its beginnings to the closing of the theatres.
Grade Mode: Normal Grading Mode

ENG 519 Approaches Teaching Lit **3 Credit hours**
The intensive study of the pedagogy of literature and literary critical theory and its classroom applications.
Grade Mode: Normal Grading Mode

ENG 521 American Lit to 1830 **3 Credit hours**
Study of American literature of the Puritan, Colonial, and Federal periods, including such authors as Jonathan Edwards, Edward Taylor, Anne Bradstreet, Benjamin Franklin, Phillis Wheatley, Washington Irving, and Catharine Maria Sedgwick.
Grade Mode: Normal Grading Mode

ENG 522 American Lit 1830-1865 **3 Credit hours**
American literature of the Romantic Period, including such authors as Emerson, Poe, Melville, Hawthorne, Dickinson, Whitman, Fuller, Douglass, Stowe, and other figures of the period.
Grade Mode: Normal Grading Mode

ENG 523 American Lit 1865-1914 **3 Credit hours**
American literature of the Realistic and Naturalistic periods, including such authors as Howells, Twain, James, Dreiser, Chesnutt, Wharton, Crane, and Chopin.
Grade Mode: Normal Grading Mode

ENG 524 American Literature after 1914 **3 Credit hours**
American literature after 1914, including such authors as Faulkner, Hemingway, Cather, Mailer, Carver, Vonnegut, Morrison and others.
Grade Mode: Normal Grading Mode

ENG 526 Appalachian Lit & Theory **3 Credit hours**
Appalachian Literature and Theory conducts an in-depth study of aspects of Appalachian culture and literature through the lens of select literary and social theories such as multiculturalism, feminism, or post-colonialism.
Grade Mode: Normal Grading Mode

ENG 528 International Literature **3 Credit hours**
Readings in contemporary literature from the non Anglo-European world. Texts by Asian, African, South American, Australian, and other authors.
Grade Mode: Normal Grading Mode

ENG 530 Young Adult Literature **3 Credit hours**
Critical study of literature intended for adolescent and pre-adolescent readers. Focus on coming-of-age and identity issues, and on texts representing cultural, ethnic, and social diversities of U.S. and world literatures.
Grade Mode: Normal Grading Mode

ENG 531 Writing for Nonprofit **3 Credit hours**
This course focuses on the genres and strategic applications of writing for nonprofit organizations. Students will analyze relevant texts and resources while writing and producing materials that nonprofits require.
Grade Mode: Normal Grading Mode

ENG 532 Contemporary Literature **3 Credit hours**
Examines literature of the present and its influences, including the inter-relationship between literature and other forms of textual/ cultural production (e.g., cinema, television, popular music, comix/ managa, 'zines, blogs, hypertext).
Grade Mode: Normal Grading Mode

ENG 533 Contemp English Poetry **3 Credit hours**
Principle poetry since the Victorian period.
Grade Mode: Normal Grading Mode

ENG 534 Contemp American Poetry **3 Credit hours**
Principle poetry since 1900.
Grade Mode: Normal Grading Mode

ENG 535 Modernism **3 Credit hours**
A study of trans-Atlantic Modernist writers, including both poetry and prose.
Grade Mode: Normal Grading Mode

ENG 536 Medieval English Lit **3 Credit hours**
Old English elegiac and heroic poetry; Middle English lyrics and romances; the Ricardian poets and Malory
Grade Mode: Normal Grading Mode

ENG 537 Tudor Lit 16th Century **3 Credit hours**
Survey may include works by More, Skelton, Wyatt, Sidney, Spenser, Nashe, Marlowe, Raleigh, Lyly, Sidney, Mary Sidney, and Shakespeare, excluding drama.
Grade Mode: Normal Grading Mode

ENG 538 17th Century Lit **3 Credit hours**
Survey may include Donne and the Metaphysical poets, the Cavalier lyricists, Bacon, Browne, Wroth, Cary, Lanyer, Herbert, Jonson, Burton, Walton, Hobbes, and Bunyan.
Grade Mode: Normal Grading Mode

ENG 547 English Romantic Poets **3 Credit hours**
Emphasis on Blake, Wordsworth, Coleridge, Byron, Shelly, and Keats.
Grade Mode: Normal Grading Mode

ENG 555 Literary Criticism **3 Credit hours**
Historical study, with application of principles.
Grade Mode: Normal Grading Mode

ENG 560 Comp and Writing Center Theory **4 Credit hours**
Introduces students to the study of teaching writing in a classroom setting and in one-to-one tutoring. (PR: graduate program admission)
Grade Mode: Normal Grading Mode

ENG 566 Literacy Studies **3 Credit hours**
Theories of writing and reading development with a focus on cultural, linguistic, and rhetorical influences on literacy acquisition.
Grade Mode: Normal Grading Mode

ENG 567 Visual Rhetoric **3 Credit hours**
Study of the production, strategies, reception, and persuasive effects of visual texts.
Grade Mode: Normal Grading Mode

ENG 569 Creative Writing Pedagogy **3 Credit hours**
A study of the professional and pedagogical methods and theories related to teaching and designing courses in creative writing.
Grade Mode: Normal Grading Mode

ENG 570 Form/Theory: Creative Writing **3 Credit hours**
Readings in contemporary literature (fiction, non-fiction, and poetry) addressing the work in terms of the formal and theoretical concerns that drive it. Course text will challenge notions of genre, form, theory, and practice.
Grade Mode: Normal Grading Mode

ENG 575 Intro to Linguistics **3 Credit hours**
The structural and descriptive approach to study of the English language.
Grade Mode: Normal Grading Mode

ENG 576 Structures of English Language **3 Credit hours**
Study of the structures of English grammar, including how these structures relate to punctuation, language acquisition, dialect variation, and the history of English.
Grade Mode: Normal Grading Mode

ENG 578 Intro to Sociolinguistics **3 Credit hours**
Sociolinguistics is the study of the effects of language in society, relevant to discourse practices, language attitudes, variations, shifts, and changes.
Grade Mode: Normal Grading Mode

ENG 580 Special Topics **1-4 Credit hours**
(PR: Permission of the chair)
Grade Mode: Normal Grading Mode

ENG 581 Special Topics **1-4 Credit hours**
(PR: Permission of the chair)
Grade Mode: Normal Grading Mode

ENG 582 Special Topics **1-4 Credit hours**
(PR: Permission of the chair)
Grade Mode: Normal Grading Mode

ENG 583 Special Topics **1-4 Credit hours**
(PR: Permission of the chair)
Grade Mode: Normal Grading Mode

ENG 585 Independent Study **1-4 Credit hours**
(PR: Permission of the chair)
Grade Mode: Normal Grading Mode

ENG 586 Independent Study **1-4 Credit hours**
(PR: Permission of the chair)
Grade Mode: Normal Grading Mode

ENG 587 Independent Study **1-4 Credit hours**
(PR: Permission of the chair)
Grade Mode: Normal Grading Mode

ENG 588 Independent Study **1-4 Credit hours**
(PR: Permission of the chair)
Grade Mode: Normal Grading Mode

ENG 591 Poetry Workshop **3 Credit hours**
A practical and intensive class in exploring the varieties of creative expression; exercises on the creating of verse in different forms and styles.
Grade Mode: Normal Grading Mode

ENG 592 Fiction Workshop **3 Credit hours**
A forum for presentation, discussion, and refinement of the student's work, either short stories or novels.
Grade Mode: Normal Grading Mode

ENG 593 Creative Nonfiction Workshop **3 Credit hours**
A writing workshop where students develop and refine their original creative nonfiction (memoir, biography, essays, travel/leisure writing, etc.), employing techniques typically reserved for fiction (dialogue, narrative, poetic language, etc.).
Grade Mode: Normal Grading Mode

ENG 615 TESOL Methods **3 Credit hours**
This course aims at teaching English for academic purposes, ranging from teaching language skills to pragmatics to cultural understanding, in relation to theories of language and language learning.
Grade Mode: Normal Grading Mode

ENG 617 TESOL Curriculum Dev **3 Credit hours**
This course introduces students to core principles of curriculum development for the language classroom. Students develop the abilities to critique and adapt textbooks and to design and create classroom materials.
Grade Mode: Normal Grading Mode

ENG 618 Language Assessment **3 Credit hours**
Students are introduced to core principles of language assessment. By exploring a varietyh of assessment techniques, students develop the ability to critique current assessments and to build their own assessments.
Grade Mode: Normal Grading Mode

ENG 622 Second Language Learning **3 Credit hours**
This course starts with an overview of disciplinary frameworks of language development, then addresses the four major theoretical perspectives: linguistics, cognitive, sociolinguistic and sociocultural.
Grade Mode: Normal Grading Mode

ENG 624 20th Century British Novel **3 Credit hours**
Major British novelists of the twentieth century.
Grade Mode: Normal Grading Mode

ENG 625 20th Century American Novel **3 Credit hours**
Major American novelists of the twentieth century.
Grade Mode: Normal Grading Mode

ENG 626 Systemic Functional Grammar **3 Credit hours**
This course is a general introduction to the principles and practice of Systemic Functional Grammar with an emphasis on the paradigmatic meaning making potential of language systems.
Grade Mode: Normal Grading Mode

ENG 627 Text Analysis **3 Credit hours**
Text analysis compares crucial aspects of English syntax, discourse pragmatics, and prepositional and lexical semantics with those of other languages.
Grade Mode: Normal Grading Mode

ENG 628 20th Cent African-American Lit **3 Credit hours**
An intensive study of selected novels, plays and poems of the period.
Grade Mode: Normal Grading Mode

ENG 630 Materials & Meth Research **3 Credit hours**
Instruction and practice in scholarly literary research. Required among first 12 hours of course work and prior to admission to candidacy for the Master of Arts degree with a major in English.
Grade Mode: Normal Grading Mode

ENG 631 Major American Authors **3 Credit hours**
An intensive study of selected American authors.
Grade Mode: Normal Grading Mode

ENG 632 Topics in American Lit **3 Credit hours**
Concentrated study of continuing themes or influences in American literature; for example, narrative perspectives, regional influences, or conflictinag agrarian and industrial values.
Grade Mode: Normal Grading Mode

ENG 633 ENG Research Applied Lin **3 Credit hours**
To inform students of various approaches to research in applied linguistics. To equip students with the critical skills to evaluate research with the end result of conducting their own research.
Grade Mode: Normal Grading Mode

ENG 634 Teaching EAP **3 Credit hours**
To help students understand the characteristics of academic English, and to train pre-service ESL or EFL teachers on how to teach English for academic purposes.
Grade Mode: Normal Grading Mode

ENG 635 Major Texts **3 Credit hours**
An intensive study of a single major text from any period of British, American, or anglophone literature, leading to mastery of the text, its critical responses, and its influences.
Grade Mode: Normal Grading Mode

ENG 636 Selected English Writers **3 Credit hours**
An intensive study of a small group of selected English writers such as the Metaphysical Poets, the Cavalier Poets, or the Bloomsbury Group.
Grade Mode: Normal Grading Mode

ENG 637 Topics in English Lit **3 Credit hours**
A concentrated study of themes or influences in English literature; for example, narrative strategies, medievalism, the pastsoral mode, or conflicting moral, social or literay values.
Grade Mode: Normal Grading Mode

ENG 638 Language and Context **3 Credit hours**
Survey of genre and register analysis research from the three perspectives of ESP (English for Special Purpose), New Rhetoric, and Systemic Functional Linguistics.
Grade Mode: Normal Grading Mode

ENG 639 CALL **3 Credit hours**
This graduate seminar course introduces students to general topics of computer-assisted language learning (CALL), focusing on the use and research of computer technologies in second-language teaching and learning. Students will gain updated pedagogical knowledge on the integration of CALL in language classes, and also develop competence to evaluate and conduct research in CALL.
Grade Mode: Normal Grading Mode

ENG 640 Composition Pedagogy **3 Credit hours**
This course builds on composition theory to address the various pedagogies and strategies most commonly practiced in the beginning composition classroom. Required for graduate assistants in English.
Pre-req: ENG 560 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ENG 645 Res Method Comp & Rhet **3 Credit hours**
An applied survey course in the theories, methods, and designs of research in the discipline of Composition and Rhetoric.
Pre-req: ENG 560.
Grade Mode: Normal Grading Mode

ENG 646 Topics Rhetoric Composition **3 Credit hours**
Study of prevailing topics in Rhetoric and Composition. Topics may include Eco-Rhetoric, Assessment, and the Rhetoric of Science, among others.
Grade Mode: Normal Grading Mode

ENG 648 Feminist Rhetorics **3 Credit hours**
Study of the ways language shapes and is influenced by gender and identity.
Grade Mode: Normal Grading Mode

ENG 650 Special Topics **3 Credit hours**
Topics designed by individual professors according to special interests (outside of strictly English or American literature subjects) and approved departmentally on a year-to-year basis, to be offered the following year.
Grade Mode: Normal Grading Mode

ENG 651 Special Topics **3 Credit hours**
Grade Mode: Normal Grading Mode

ENG 652 Special Topics **3 Credit hours**
Grade Mode: Normal Grading Mode

ENG 653 Special Topics **3 Credit hours**
Topics designed by individual professors according to special interests (outside of strictly English or American literature subjects) and approved departmentally on a yearto-year basis, to be offered the following year.
Grade Mode: Normal Grading Mode

ENG 660 Literary Theory **3 Credit hours**
Intensive introduction to one or more literary or cultural theories, familiarizing students with the major developments, terms, premises, and debates of the theory or theories in question.
Grade Mode: Normal Grading Mode

ENG 661 Studies in Genre **3 Credit hours**
An intensive study of one or more literary genres, familiarizing students with the major developments, terms, premises, and debates concerning the genre or genres in question.
Grade Mode: Normal Grading Mode

ENG 662 Topics in Film and Media **3 Credit hours**
Intensive study of a specific theme or genre in film, television, digital media, video games, and other new media.
Grade Mode: Normal Grading Mode

ENG 665 Creative Writing Workshop **3 Credit hours**
An intensive multi-genre study of the best practices for the writing and revising of creative writing.
Grade Mode: Normal Grading Mode

ENG 670 TESOL Practicum I **3 Credit hours**
This supervised practicum engages students in classroom observation and promotes their ability to reflect on classroom practice.
Pre-req: ENG 615 or ENG 617 or ENG 651.
Grade Mode: Credit/No Credit Grade Only

ENG 671 TESOL Practicum II **3 Credit hours**
In this supervised practicum, students design and implement lessons in language classrooms. Students receive feedback on their teaching and engage in the practice of reflection.
Pre-req: ENG 670.
Grade Mode: Credit/No Credit Grade Only

ENG 675 Professional Topics in Writing **3 Credit hours**
A study of professional topics on the writing, editing/publishing and teaching of writing in the current literacy and job markets.
Pre-req: ENG 630 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ENG 681 Thesis **1-9 Credit hours**
Pre-req: ENG 630 with a minimum grade of C.
Attributes: No Textbook Required, Thesis
Grade Mode: Credit/No Credit Grade Only

ENG 682 Portfolio **1-9 Credit hours**
Extensive revision and creation of new original writing for the purposes of demonstrating knowledge and ability, as well as preparing students for further graduate study or the job market.
Attributes: No Textbook Required
Grade Mode: Credit/No Credit Grade Only

ENG 683 Comprehensive Exams **1-9 Credit hours**
Preparation and extensive reading for exams in three areas of study. Students are expected to demonstrate expertise in these three areas through completion of essay exams.
Grade Mode: Credit/No Credit Grade Only

ENG 685 Independent Study **1-4 Credit hours**
Independent Study
Grade Mode: Normal Grading Mode

ENG 686 Independent Study **1-4 Credit hours**
Independent Study
Grade Mode: Normal Grading Mode

ENG 687 Independent Study **1-4 Credit hours**
Independent Study
Grade Mode: Normal Grading Mode

ENG 688 Independent Study **1-4 Credit hours**
Independent Study
Grade Mode: Normal Grading Mode

ENG 689 Internship **1-4 Credit hours**
Supervised work experience in English.
Attributes: Onsite Learning Experience
Grade Mode: Normal Grading Mode

Geography

GEO 502 Geography of Appalachia **3 Credit hours**
A study of the geography of Appalachia, including landforms, climate, settlement patterns, population, economics, resources, politics, and environmental changes.
Grade Mode: Normal Grading Mode

GEO 504 Geography of Europe **3 Credit hours**
An examination of the geography of Europe focusing on contemporary issues, including climate, culture, economics, environmental change, everyday life, international relations, landforms, language, politics, population, religion, and urbanization.
Grade Mode: Normal Grading Mode

GEO 505 Political Geography **3 Credit hours**
An examination of contemporary patterns, processes, and problems of political geography in global perspective, including globalization, colonialism, imperialism, geopolitics, nationalism, diplomacy, international borders, governance, political representation, and future projections.
Grade Mode: Normal Grading Mode

GEO 506 Population Geography **3 Credit hours**
An examination of contemporary patterns, processes, and problems of population geography in global perspective, including fertility, mortality, demographic change, migration, malnutrition, urbanization, natural resource sustainability, and future projections.
Grade Mode: Normal Grading Mode

GEO 508 Geog of South & Middle America **3 Credit hours**
A study of settlement, transportation, manufacturing agriculture, geopolitics and natural resources of South and Middle American countries.
Grade Mode: Normal Grading Mode

GEO 510 Urban Geography **3 Credit hours**
Study of the evolution, morphology and land use, functions, and problems of urban areas, with emphasis on governance, planning, and the social and environmental impacts of urbanization.
Grade Mode: Normal Grading Mode

GEO 511 Health and Medical Geography **3 Credit hours**
An examination of contemporary issues and problems in health and medical geography, including the spatial aspects of global health, health care policy, and disease origins, diffusion, and ecology.
Grade Mode: Normal Grading Mode

GEO 518 Geography for Educators **3 Credit hours**
A study of the geographic concepts, methods, and technologies essential for effective teaching of geographic content for K-12 social studies teachers and college educators.
Grade Mode: Normal Grading Mode

GEO 522 Environmental Geography **3 Credit hours**
Geographical survey of enviromental changes caused by human activities. Focus on resource availability and use; pollution of air, water, and biosphere; energy problems, and human interaction with natural movement.
Grade Mode: Normal Grading Mode

GEO 523 Cartography & GIS **3 Credit hours**
An introduction to cartography as the cornerstone of geographic information systems/science. Students will learn GIS-based map making, interpretation, and design. The course explores cartographic techniques to represent and visualize data.
Grade Mode: Normal Grading Mode

GEO 524 Transportation Geography **3 Credit hours**
A geographic analysis of transportation and its spatial organization. Concepts, models, and analytical methods related to traffic demand, network configuration, and allocation of transport facilities are covered.
Grade Mode: Normal Grading Mode

GEO 525 Climatology **4 Credit hours**
A study of elements of weather and climate, methods of climatic classification, and distribution and characteristics of world climatic regions.
Grade Mode: Normal Grading Mode

GEO 526 Geographic Information Systems **4 Credit hours**
Geographic Information Systems (GIS) principles, techniques, and applications for the social and natural sciences, emphasizing core geographic concepts through an integrated lecture and lab format.
Grade Mode: Normal Grading Mode

GEO 527 Principles of GIS II **4 Credit hours**
Students apply GIS principles and techniques to geoprocess and manipulate geographic data, including topics such as geodatabase management, python scripting, model building, web mapping and data services, and spatial analysis.
Pre-req: GEO 523 with a minimum grade of D or GEO 526 with a minimum grade of D or GEO 529 with a minimum grade of D or GEO 530 with a minimum grade of D or NRRM 523 with a minimum grade of D or NRRM 533 with a minimum grade of D.
Grade Mode: Normal Grading Mode

GEO 529 GIS Location Analytics **3 Credit hours**
This course explores how Geographic Information Systems (GIS) are used in business for market analysis, site selection, logistics, and data-driven decision-making.
Grade Mode: Normal Grading Mode

GEO 530 Environmental Raster Analysis **4 Credit hours**
Environmental Applications of GIS raster analysis, including local, neighborhood, and zonal operations, terrain analysis, distance modeling, and surface interpolation, data collection and input, and advanced spatial analysis using GIS.
Pre-req: GEO 526 or GEO 529.
Grade Mode: Normal Grading Mode

GEO 531 Remote Sensing & Photogram **4 Credit hours**
Scientific study of the earth using images and data captured using satellite-or aircraft-borne sensors, with emphasis on issues of acquisition, photogrammetric interpretation, spatial analysis, and application.
Grade Mode: Normal Grading Mode

GEO 534 Flood Hazards and GIS **3 Credit hours**
Application of principles of flood hazards preparation, disaster management, and mitigation using Geographic Information Systems (GIS).
Grade Mode: Normal Grading Mode

GEO 550 Extreme Weather **4 Credit hours**
Basics of extreme weather phenomena including hurricanes, tornadoes, floods, droughts, blizzards, and how to mitigate the impacts.
Grade Mode: Normal Grading Mode

GEO 554 Drones:Remote Sensing & GIS **3 Credit hours**
Learn FAA rules and safety procedures; prepare for Remote Pilot licensing exam; operate drones to collect remote sensing data; process imagery for analysis; integrate sUAS imagery with existing GIS data.
Grade Mode: Normal Grading Mode

GEO 580 Special Topics **1-4 Credit hours**
Selected geography subjects to cover unusual geography topics not in the regular course offerings of the department.
Grade Mode: Normal Grading Mode

GEO 581 Special Topics **1-4 Credit hours**
Selected geography subjects to cover unusual geography topics not in the regular course offerings of the department.
Grade Mode: Normal Grading Mode

GEO 582 Special Topics **1-4 Credit hours**
Selected geography subjects to cover unusual geography topics not in the regular course offerings of the department.
Grade Mode: Normal Grading Mode

GEO 583 Special Topics **1-4 Credit hours**
Selected geography subjects to cover unusual geography topics not in the regular course offerings of the department.
Grade Mode: Normal Grading Mode

GEO 585 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

GEO 586 Independent Study **1-4 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

GEO 587 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

GEO 588 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

GEO 601 Colloquium in Geography **1-3 Credit hours**
Speaker series introducing and sharing knowledge and experiences with geographic focus. Students are to learn from the knowledge and experience of faculty members, graduate students, alumni, and scholars.
Grade Mode: Credit/No Credit Grade Only

GEO 607 Economic Geography **3 Credit hours**
Topics in economic geography including industrial location, transportation systems, economic development, international trade relationships and globalism.
Grade Mode: Normal Grading Mode

GEO 615 Geographic Thought **3 Credit hours**
Survey of the history, literature, prominent individuals, and major paradigms in geography. Review of the major concepts in geography and an introduction to various methods of geographic inquiry.
Grade Mode: Normal Grading Mode

GEO 616 Geographical Research Methods **3 Credit hours**
Students examine/practice four research methods in geography--qualitative, quantitative, GIScience, and field/lab methods--and learn to choose among them and use them for their own research and analysis.
Grade Mode: Normal Grading Mode

GEO 617 Seminars in Geography **1-4 Credit hours**
Selected geography subjects/topics not included in the regular course offerings of the department are considered, using a seminar approach to learning.
Grade Mode: Normal Grading Mode

GEO 618 Seminars in Geography **1-4 Credit hours**
Selected geography subjects/topics not included in the regular course offerings of the department are considered, using a seminar approach to learning.
Grade Mode: Normal Grading Mode

GEO 619 Seminars in Geography **1-4 Credit hours**
Selected geography subjects/topics not included in the regular course offerings of the department are considered, using a seminar approach to learning.
Grade Mode: Normal Grading Mode

GEO 620 Problems in Environ Geog **3 Credit hours**
Geographic aspects of world environmental problems including such topics as global warming, acid rain, energy supplies, population growth and soil depletion.
Grade Mode: Normal Grading Mode

GEO 623 Regions of North America **3 Credit hours**
This seminar course examines regional geographies of North America with an emphasis on the research and methods for delineation of regions.
Grade Mode: Normal Grading Mode

GEO 631 Applied GIS Projects **3 Credit hours**
Use of advanced GIS techniques to solve community-service research problems.
Pre-req: GEO 530.
Grade Mode: Normal Grading Mode

GEO 634 GIS Databases & Programming **3 Credit hours**
Configuration and management of geospatial databases. Python scripting for analysis, geoprocessing, and workflow automation within a GIS environment.
Grade Mode: Normal Grading Mode

GEO 640 Spatial Statistics using GIS **4 Credit hours**
This course equips students with the skills to understand, apply, and critically evaluate geostatistical methods in GIS, emphasizing spatial data analysis, model development, visualization, and real-world problem-solving.
Pre-req: GEO 526 with a minimum grade of C or GEO 529 with a minimum grade of C or GEO 530 with a minimum grade of C.
Grade Mode: Normal Grading Mode

GEO 660 Weather Analysis **4 Credit hours**
Introduction to reading weather maps and meteorological analysis techniques including satellite and radar image interpretation and numerical weather prediction.
Grade Mode: Normal Grading Mode

GEO 679 Portfolio and Career Profile **1-4 Credit hours**
Students compile a Portfolio of work completed during the degree program, complete a written exam project, and create/enhance their Career Profile.
Pre-req: GEO 615 with a minimum grade of C and GEO 616 with a minimum grade of C.
Grade Mode: Normal Grading Mode

GEO 681 Thesis **1-6 Credit hours**
Attributes: Thesis
Grade Mode: Normal Grading Mode

GEO 690 Internship in Geography **1-6 Credit hours**
Student will be employed a minimum of 300 hours with an agency approved by geography department. Faculty advisor and agency will consult periodically on student progress.
Attributes: No Textbook Required, Onsite Learning Experience
Grade Mode: Credit/No Credit Grade Only

Historical Studies - Humanities

HIST 514 EUROPEAN DIPL HIST 1919-PRESEN **3 Credit hours**

HIST 559 RECENT AMERICAN HISTORY **3 Credit hours**

HIST 580 Ethnic Hist of West Virginia **3 Credit hours**
This course focuses on the contributions that individuals and groups with diverse ethnic backgrounds have made to the economic, social, and cultural history of the state.
Grade Mode: Normal Grading Mode

HIST 585 Coal Mine Life/Work/Culture **3 Credit hours**
This course provides students with a better understanding of the continuing economic, political, environmental and cultural impact which the extraction of coal has had on West Virginia.

HIST 600 Selected Topics/Hist Studies **1-6 Credit hours**
Selected topics in history. The specific topic will be announced in the schedule of classes. Students may take up to nine hours in selected topics.
Grade Mode: Normal Grading Mode

HIST 601 Historic Preservation **3 Credit hours**
Course broadens historical awareness and provides practical applications of historical knowledge. It covers the built environment and focuses on the history, processes and legal basis of the historic preservation movement.
Grade Mode: Normal Grading Mode

HIST 602 SEMINAR IN HISTORICAL STUDIES **3 Credit hours**

HIST 610 SELECTED TOPICS IN BRITISH HIS **1 Credit hour**

HIST 620 Civil War & Reconstruction **3 Credit hours**
This course examines the complex causes and lasting effects of the American Civil War. Issues such as slavery, sectionalism, emancipation and Reconstruction will receive attention.

HIST 650 THE IDEA OF THE AMER FRONTIER **3 Credit hours**

HIST 680 SELECTED TOPICS IN W. VA. HIST **1 Credit hour**

History

HST 501 History of Appalachia **3 Credit hours**
This course will explore the historical and historiographical development of Appalachia and the economic, political, and cultural forces that have shaped the lives and communities of mountaineers.
Grade Mode: Normal Grading Mode

HST 505 Amer Diplomacy 1900-Pres **3 Credit hours**
American foreign relations in the 20th century. The gradual retreat from isolation in the period between World Wars I and II and modern American involvement in international commitments will be stressed.
Grade Mode: Normal Grading Mode

HST 506 Tudor & Stuart England **3 Credit hours**
A history of England under the Tudors and Stuarts, focusing primarily on demographic, social, cultural, and political developments.
Grade Mode: Normal Grading Mode

HST 507 History of Sexuality **3 Credit hours**
Examines the history of sexuality in North America in the context of cultural, legal, economic, political, and social history from the 16th century to the present.
Grade Mode: Normal Grading Mode

HST 508 History of LGBT Peoples **3 Credit hours**
A survey of gay, lesbian, bisexual and transgender history in the United States from the colonial period to the present.
Grade Mode: Normal Grading Mode

HST 509 American Revolution **3 Credit hours**
A varied view of the American Revolution and its impact on the American people.
Grade Mode: Normal Grading Mode

HST 513 Hist Old South 1492-1860 **3 Credit hours**
The History of the Old South is a study of the political, economic,social, and cultural conditions in the South that led to the development of the South as a distinct section in the United States.
Grade Mode: Normal Grading Mode

HST 514 Am Civil War & Reconstruction **3 Credit hours**
This course explores the causes, fighting, outcomes, and historical memory of the bloodiest war in US history.
Grade Mode: Normal Grading Mode

HST 515 Hist New South 1877-Pres **3 Credit hours**
The History of the New South is a study of the political, economic, social, and cultural changes in the South after reconstruction that explain conditions in the contemporary South.
Grade Mode: Normal Grading Mode

HST 517 U.S. West to 1900 **3 Credit hours**
A study of the social, cultural, political, and economic history of the US West to 1900, along with West's place in our public memory.
Grade Mode: Normal Grading Mode

HST 521 Renaissance & Reformation **3 Credit hours**
The impact of the Renaissance upon esthetic, economic, and political developments especially in the 15th and 16th centuries. The decline of Catholicism and the growth of the Protestant movement, and the influence of the two movements upon each other is stressed.
Grade Mode: Normal Grading Mode

HST 524 US Science & Technology **3 Credit hours**
A study of the development and impact of science and techology in the U.S.
Grade Mode: Normal Grading Mode

HST 525 European Hist 1814-1914 **3 Credit hours**
A century of European political, economic, and social history. Its relationship to and influence upon the history of other world areas is noted. The impact of imperalistic rivalry is emphasized.
Grade Mode: Normal Grading Mode

HST 527 The World at War **3 Credit hours**
This course explores the Second World War. It probes the nexus of diplomacy, politics, ideology, military strategy and operations, economics, and technological innovation that generated a truly global "total war."
Grade Mode: Normal Grading Mode

HST 528 Intel & Cult Hist Mod Europe **3 Credit hours**
A survey of the main currents in European thought and culture in the 19th and 20th centuries.
Grade Mode: Normal Grading Mode

HST 529 Russia to 1917 **3 Credit hours**
A survey of Russian history to 1917 which examines Russia before the Russians, Kievan Russia, Appanage Russia, Muscovite Russia and Imperial Russia. Emphasis is on Imperial Russia.
Grade Mode: Normal Grading Mode

HST 530 Soviet Russia and Beyond **3 Credit hours**
The rise and fall of the Soviet Union, with emphasis on political and exonomic changes and Soviet foreign policy, and including an examination of the aftermath of the Soviet Union's collapse.
Grade Mode: Normal Grading Mode

HST 531 America in the Gilded Age **3 Credit hours**
A study of America's transformation from a rural, agrarian nation into an urban, industrial world power, the final destruction of the American Indian, the settlement of the West, and the farmers' revolt.
Grade Mode: Normal Grading Mode

HST 534 The Vietnam War **3 Credit hours**
A study of the origin and escalation of American involvement in Vietnam, the domestic impact of the war within the United States and the collapse of the South Vietnamese government.
Grade Mode: Normal Grading Mode

HST 535 Modern Japan **3 Credit hours**
Begins with an overview of nineteenth century Japan and stresses the twentieth century rise of Japan to the position of world power.
Grade Mode: Normal Grading Mode

HST 536 Modern China **3 Credit hours**
This course will provide an overview of Chinese history in the modern era (1600 to the present), including the major political, cultural, social, and intellectual events and trends of this period.
Grade Mode: Normal Grading Mode

HST 537 Intro Public History **3 Credit hours**
Introduction to the basic theories, ideas, and approaches to the application of historical theory or methods to projects presented to non-student publics; local and economic development applications and projects emphasized.
Grade Mode: Normal Grading Mode

HST 538 Stuff and Things in History **3 Credit hours**
This course investigates the rich potential of "things" objects, landscapes, buildings, household utensils, furniture, foods, works of art, clothing, etc. as sources of insight about American history and culture.
Grade Mode: Normal Grading Mode

HST 539 Modern China Through Film **3 Credit hours**
Through a combination of film, lectures, discussions, and writings, the course will show how China took its unique path to modernization.
Grade Mode: Normal Grading Mode

HST 540 West Virginia History **3 Credit hours**
An interdisciplinary study of the state, its people and its institutions within the national context.
Grade Mode: Normal Grading Mode

HST 543 20th Century US Women's Hist **3 Credit hours**
This course explores the lives and experiences of US women in the 20th century, but always with an eye on power.
Grade Mode: Normal Grading Mode

HST 546 Rise of Atlantic World **3 Credit hours**
This course considers the expansion of Western Europe, beginning in the early 1400s, to Africa, Latin America, and other parts of the Atlantic world.
Grade Mode: Normal Grading Mode

HST 547 Film and Empire **3 Credit hours**
This course explores the nature and importance of empire through the reading of key texts and the study of selected films.
Grade Mode: Normal Grading Mode

HST 548 British History in Film **3 Credit hours**
This course explores selected aspects of British history through the study of films and key texts.
Grade Mode: Normal Grading Mode

HST 549 World War I in Film **3 Credit hours**
This course explores the origins, course, and meaning of World War I (1914-1918) through the use of selected films and readings.
Grade Mode: Normal Grading Mode

HST 553 The Kennedy Assassination **3 Credit hours**
This course explores the events surrounding the assassination of President John F. Kennedy.
Grade Mode: Normal Grading Mode

HST 554 History of Ireland **3 Credit hours**
This course covers the history of Ireland from the Middle Ages to the Present.
Grade Mode: Normal Grading Mode

HST 558 Spies in History **3 Credit hours**
This course explores the role played by spies and espionage in modern history.
Grade Mode: Normal Grading Mode

HST 570 The Civil War in Myth & Memory **3 Credit hours**
In a reading seminar, students will examine the historiography as well as origins and change over time of Civil War memory from 1865 to the present.
Grade Mode: Normal Grading Mode

HST 580 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

HST 581 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

HST 582 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

HST 583 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

HST 585 Independent Study **1-4 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

HST 586 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

HST 587 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

HST 588 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

HST 600 Methodology **3 Credit hours**
A research and writing seminar in which students are taught and must exhibit the skills and methodologies of practicing research historians.
Grade Mode: Normal Grading Mode

HST 601 Tudor England 1485-1603 **3 Credit hours**
In this course students will examine in depth several selected themes in Tudor history through reading, class discussions, examinations, and a research paper.
Grade Mode: Normal Grading Mode

HST 602 Stuart England 1603-1714 **3 Credit hours**
An analysis of the Social, Intellectual, Economic, Cultural, and Political History of England in the Stuart Century.
Grade Mode: Normal Grading Mode

HST 605 Social & Econ Prob Am Col **3 Credit hours**
A study of the English colonies America with emphasis on slavery, minorities, and social and economic change.
Grade Mode: Normal Grading Mode

HST 607 Prob Eur Hist 1890-1923 **3 Credit hours**
An analysis of the politics, diplomacy and military strategy of the period of the First World War. Special emphasis is given to the origin of the war, the war itself, the peace settlement and the Russian Revolution and its aftermath.
Grade Mode: Normal Grading Mode

HST 610 Readings in History **2-3 Credit hours**
Readings in topics fitted to the need of the individual student. They may deal with any graduate area. This course is ordinarily restricted to off-campus students and is used sparingly.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

HST 632 Seminar in Reconstruction **3 Credit hours**
A reading and research course in which each student investigates a specific issue related to the reunification of the nation after the Civil War.
Grade Mode: Normal Grading Mode

HST 633 Prob Amer Hist 1877-1917 **3 Credit hours**
A research course in which the student probes a selected problem within the chronological span, 1877-1917.
Grade Mode: Normal Grading Mode

HST 634 Prob Amer Hist Since 1917 **3 Credit hours**
A research course in which a student probes a selected problem within the period since 1917.
Grade Mode: Normal Grading Mode

HST 635 Oral/Local History Seminar **3 Credit hours**
The course examines the field of oral history. Students will apply oral history methodology and other primary source documentation in researching a local topic. ques, the interview, processing of tapes, release form, ethics, and how to write grant proposals.
Grade Mode: Normal Grading Mode

HST 636 Seminar in Women's Hst **3 Credit hours**
A reading and research course in which the student investigates selected topics related to the history of women in America or Europe.
Grade Mode: Normal Grading Mode

HST 640 Archives and Special Coll **3 Credit hours**
The seminar will introduce the student to current practices and procedures used in the creation of archives and manuscript collections through extensive hands-on work, including the physical processing of a manuscript collection. The emphasis will be improvement of the student's historical research skills.
Grade Mode: Normal Grading Mode

HST 650 Special Topics **1-4 Credit hours**
(PR: Permission of Instructor)
Grade Mode: Normal Grading Mode

HST 651 Special Topics **1-4 Credit hours**
(PR: Permission of Instructor)
Grade Mode: Normal Grading Mode

HST 679 Problem Report **1-3 Credit hours**
Grade Mode: Normal Grading Mode

HST 680 Public History Internship **1-6 Credit hours**
Internship in an approved setting in Public History, Archives, Museum, Oral History, or Historical Preservation. Interns will be supervised by on-site staff and History Faculty.
Attributes: Onsite Learning Experience
Grade Mode: Normal Grading Mode

HST 681 Thesis **1-6 Credit hours**
Attributes: No Textbook Required, Thesis
Grade Mode: Normal Grading Mode

Humanities

HUMN 530 Technology & the Humanities **3 Credit hours**
This course surveys the effects of electronic media on the humanities and how they are taught in the postmodern society. Content will subsumeboth philosophical/ theoretical issues and technical matters
Grade Mode: Normal Grading Mode

HUMN 560 Staff Development **1-4 Credit hours**
Courses and activities designed to meet specific needs of public school personnel. Credit may be used for certificate renewal and salary upgrading if approved but not in degree programs.
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

HUMN 561 Staff Development **1-4 Credit hours**
Courses and activities designed to meet specific needs of public school personnel. Credit may be used for certificate renewal and salary upgrading if approved but not in degree programs.
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

HUMN 562 Staff Development **1-4 Credit hours**
Courses and activities designed to meet specific needs of public school personnel. Credit may be used for certificate renewal and salary upgrading if approved but not in degree programs.
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

HUMN 563 Staff Development **1-4 Credit hours**
Courses and activities designed to meet specific needs of public school personnel. Credit may be used for certificate renewal and salary upgrading if approved but not in degree programs.
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

HUMN 600 Intro to Study in Humanities **3 Credit hours**
Interdisciplinary core course addresses questions/concepts central to the humanities. Texts from philosophy, history, literature, the arts and in the sciences provide insights into selected historical periods. Open to non-degree students.
Grade Mode: Normal Grading Mode

HUMN 601 Literary Theory & Criticism **3 Credit hours**
Core course introduces modern critical approaches, concepts and methods of research and scholarship in the field of literature. Open to non-degree students.
Grade Mode: Normal Grading Mode

HUMN 602 Historical Studies **3 Credit hours**
Core course acquaints students with problems of historical knowledge, changes in the interpretation of history, nature of historical forces, and methods of historical research. Open to non-degree students.
Grade Mode: Normal Grading Mode

HUMN 603 History & Theory of the Arts **3 Credit hours**
Core course provides chronological survey of the arts, emphasizing the social, political and/or religious motives that underlie artistic production. Emphasis on theories of modern art. Open to non-degree students.
Grade Mode: Normal Grading Mode

HUMN 604 Expository Wrtng for Research **3 Credit hours**
This core writing course develops proficiency in writing for research. Note: a degree student may demonstrate competency through an alternative assessment to have the requirement waived. Open to non-degree students.
Grade Mode: Normal Grading Mode

HUMN 605 Wstrn Trdtns/Contemp Cultures **3 Credit hours**
Using primary materials from different cultural periods, as well as contemporary critical analysis, this core course explores epistemological questions that underlie conflicts between cultures. Open to non-degree students.
Grade Mode: Normal Grading Mode

HUMN 650 Selected Topics **1-9 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

HUMN 660 Independent Study in Human **1-3 Credit hours**
Independent study in a particular area of interest. Open only to students near the end of their plans of study. Permission of program director is required
Grade Mode: Normal Grading Mode

HUMN 680 Independent Research Symposium **3-6 Credit hours**
Prerequisite: 24 credit hours, required courses, and comprehensive examination. A pro-seminar required of all Humanities degree students who are beginning the thesis or final projects. S-U grade.
Attributes: Onsite Learning Experience, Thesis
Grade Mode: Satisfactory/Unsatisfactory

HUMN 681 Independent Research Symposium **3 Credit hours**
Prequesite: Humanities 680. A continuation of the proseminar for students electing the thesis option. The student will produce a thesis suitable for submission to a committee S-U grade.
Attributes: Thesis
Grade Mode: Satisfactory/Unsatisfactory

Latin

LAT 503 Roman Comedy **3 Credit hours**
(PR: 6 hours of Latin literature numbered 304 or above or equivalent)
Grade Mode: Normal Grading Mode

LAT 504 Roman Elegy: Prop & Tib **3 Credit hours**
Close readings in Latin of selections from the elegies of Propertius and Tibullus.
Grade Mode: Normal Grading Mode

LAT 509 Roman Satire: Hor,Mart,Juv **3 Credit hours**
Close readings in Latin of selections form the satires of Horace and Juvenal and the epigrams of Martial.
Grade Mode: Normal Grading Mode

LAT 510 Tacitus: Annals Agricola **3 Credit hours**
(PR: 6 hours of Latin literature numbered 304 or above or equivalent)
Grade Mode: Normal Grading Mode

LAT 580 Special Topics **1-4 Credit hours**
(PR: 6 hours of literature numbered 304 or above or equivalent and consent of instructor)
Grade Mode: Normal Grading Mode

LAT 581 Special Topics **1-4 Credit hours**
(PR: 6 hours of literature numbered 304 or above or equivalent and consent of instructor)
Grade Mode: Normal Grading Mode

LAT 582 Special Topics **1-4 Credit hours**
(PR: 6 hours of litrature numbered 304 or above or equivalent and consent of instructor)
Grade Mode: Normal Grading Mode

LAT 583 Special Topics **1-4 Credit hours**
(PR: 6 hours of literature numbered 304 or above or equivalent and consent of instructor)
Grade Mode: Normal Grading Mode

LAT 585 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

LAT 586 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

LAT 587 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

LAT 588 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

LAT 625 Hist & Dev Latin Language **3 Credit hours**
This course examines the linguistic, geographic, cultural and material concerns that influenced the development of the Latin Language.
Grade Mode: Normal Grading Mode

LAT 640 Advanced Prose Comp **3 Credit hours**
A close study of advanced Latin grammar and style through composition in Latin.
Grade Mode: Normal Grading Mode

LAT 660 Special Author Lat Lit **3 Credit hours**
A detailed study in Latin of a single author. Special attention will be given to style, genre, literary and cultural contexts, and the study of secondary sources on the author.
Grade Mode: Normal Grading Mode

LAT 661 Special Author in Lat Lit **3 Credit hours**
A detailed study in Latin of a single author. Special attention will be given to style, genre, literary and cultural contexts, and study of secondary sources on the author.
Grade Mode: Normal Grading Mode

LAT 662 Special Author in Lat Lit **3 Credit hours**
A detailed study in Latin of a single author. Special attention will be given to style, genre, literary and cultural contexts, and study of secondary sources on the author.
Grade Mode: Normal Grading Mode

LAT 663 Special Author in Lat Lit **3 Credit hours**
A detailed study in Latin of a single author. Special attention will be given to style, genre, literary and cultural contexts, and study of secondary sources on the author.
Grade Mode: Normal Grading Mode

LAT 664 Special Author Lat Lit **3 Credit hours**
A detailed study in Latin of a single author. Special attention will be given to style, genre, literary and cultural contexts, and study of secondary sources on the author.
Grade Mode: Normal Grading Mode

LAT 665 Special Author Lat Lit **3 Credit hours**
A detailed study in Latin of a single author. Special attention will be given to style, genre, literary and cultural contexts, and study of secondary sources on the author.
Grade Mode: Normal Grading Mode

LAT 681 Thesis **1-6 Credit hours**
Attributes: Thesis
Grade Mode: Normal Grading Mode

LAT 682 Special Topics Lat Lit **1-4 Credit hours**
Grade Mode: Normal Grading Mode

LAT 683 Special Topics in Latin Lit **1-4 Credit hours**
Grade Mode: Normal Grading Mode

LAT 685 Independent Study in Lat Lit **1-4 Credit hours**
Grade Mode: Normal Grading Mode

LAT 686 Independent Study in Lat Lit **1-4 Credit hours**
Grade Mode: Normal Grading Mode

LAT 687 Independent Study in Lat Lit **1-4 Credit hours**
Grade Mode: Normal Grading Mode

LAT 688 Independent Study in Lat Lit **1-4 Credit hours**
Grade Mode: Normal Grading Mode

Leadership Studies

LS 510 Administrative Leadership **3 Credit hours**
Administrative Leadership prepares leaders for school and district positions by providing the knowledge and skills to support every student's learning and development through fiscal management, resource allocation, facility utilization and maintenance, and using information systems.
Attributes: Onsite Learning Experience
Grade Mode: Normal Grading Mode

LS 515 Curric and Instr Leadership **3 Credit hours**
The development and/or upgrading of supervisory practices in the areas of instructional leadership, instructional program development, instructional strategies, implementation and evaluation, and human relations.
Grade Mode: Normal Grading Mode

LS 520 Admin Elem Mdle & Sec Schools **3 Credit hours**
An investigation of the effects of the unique physical, social, mental, and moral characteristics of pre, early, and adolescent children on educational processes, organizations, and personnel.
Grade Mode: Normal Grading Mode

LS 530 Human Rel Skills for Leaders **3 Credit hours**
This course assesses and develops students' knowledge and skills in interpersonal relations and ethical practices. It provides structured experiences in group processes, verbal and non-verbal communications leadership styles, and team building.
Grade Mode: Normal Grading Mode

LS 550 Schools as Systems **3 Credit hours**
Assesses and develops student's knowledge and skills in change strategies, school cultures, systems theory, and understanding of the school in relation to other systems, agencies, and organizations.
Grade Mode: Normal Grading Mode

LS 558 School Law and the Teacher **3 Credit hours**
Grade Mode: Normal Grading Mode

LS 561 Professional Development **1-4 Credit hours**
These courses and activities are designed to meet the specific in-service needs of public school administrators. Credit in these courses may be used for certificate renewal and salary upgrading but not in degree programs.
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

LS 562 Professional Development **1-4 Credit hours**
These courses and activities are designed to meet the specific in-service needs of public school administrators. Credit in these courses may be used for certificate renewal and salary upgrading but not in degree programs.
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

LS 563 Staff Development **1-4 Credit hours**
These courses and activities are designed to meet the specific in-service needs of public school administrators. Credit in these courses may be used for certificate renewal and salary upgrading but not in degree programs.
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

LS 580 Special Topics in Leadership **1-9 Credit hours**
To provide the master's level student an opportunity to examine selected issues in leadership and to apply their findings to the field of study.
Grade Mode: Normal Grading Mode

LS 585 Independent Study **1-4 Credit hours**
Approval of Program Director and Permission of chair. Student must have a GPA of 3.0 to take class.
Grade Mode: Normal Grading Mode

LS 586 Independent Study **1-4 Credit hours**
Approval of Program Director and Permission of chair. Student must have a GPA of 3.0 to take class.
Grade Mode: Normal Grading Mode

LS 587 Independent Study **1-4 Credit hours**
Approval of Program Director and Permission of chair. Student must have a GPA of 3.0 to take class.
Grade Mode: Normal Grading Mode

LS 588 Independent Study **1-4 Credit hours**
Approval of Program Director and Permission of chair. Student must have a GPA of 3.0 to take class.
Grade Mode: Normal Grading Mode

LS 600 School Personnel Administra **3 Credit hours**
This course offers an examination of personnel functions including recruitment, selection, orientation, evaluation, and retention with particular emphasis on staff development.
Grade Mode: Normal Grading Mode

LS 604 CTE Leadership Studies I **3 Credit hours**
Leadership preparation for career and technical education programs located at technical centers and/or high schools. Students will study career and technical education policies, funding sources, and accountability within Simulated Workplace.
Grade Mode: Normal Grading Mode

LS 606 Plan Res & Eval for Sch Lead **3 Credit hours**
This course is designed to avail potential school administrators with an understanding of planning strategies, academic research, action research, and program evaluation methods, with the intent of their being able to write a cogent, data-based school improvement plan.
Grade Mode: Normal Grading Mode

LS 608 CTE Leadership Studies II **3 Credit hours**
Leadership preparation for career and technical education programs located at technical centers and/or high schools. Students will study career/technical education initiatives, importance of advisory committees, and economics of Simulated Workplaces.
Pre-req: LS 604 with a minimum grade of D.
Grade Mode: Normal Grading Mode

LS 610 Leadership for Sch Improve **3 Credit hours**
Leadership preparation for developing and implementing a shared vision and strategic plans focused on teaching and learning, implementing change, applying leadership theory and acting with understanding of society's influences.
Attributes: Onsite Learning Experience
Grade Mode: Normal Grading Mode

LS 612 Educ Tech for Administrators **3 Credit hours**
This course addresses the role of the principal in the development and implementation of school curriculum. This includes developmentally appropriate curriculum design, special education curriculum and modifications, the integration of technology, and authentic assessment.
Grade Mode: Normal Grading Mode

LS 615 Leadership in Public Sector **3 Credit hours**
This course will enable public sector leaders to better understand the perspectives they bring to the setting, define and evaluate personal and organizational goals, and develop strategies to achieve shared goals.
Grade Mode: Normal Grading Mode

LS 616 Higher Ed Governance **3 Credit hours**
This course is designed to develop an understanding of the structure of governance of multi-campus public higher education systems.
Grade Mode: Normal Grading Mode

LS 617 Intro Stu Pers Adm/Higher Ed **3 Credit hours**
This course surveys the purpose and functions of student personnel administration in higher educational institutions and the administrative procedures developed to accomplish these purposes.
Grade Mode: Normal Grading Mode

LS 618 History of Higher Education **3 Credit hours**
This course will present a historical overview of the factors that influence the development of higher education in America.
Grade Mode: Normal Grading Mode

LS 621 Pub Policy Analysis Higher Ed **3 Credit hours**
This course will introduce students to the process of developing federal and state public policy for higher education and examine legislation related to governance, finance, and oversight.
Grade Mode: Normal Grading Mode

LS 625 Human Resources Management **3 Credit hours**
This course develops knowledge of the major functions and tasks necessary for the development of human resources.
Grade Mode: Normal Grading Mode

LS 626 Fundraising Management **3 Credit hours**
This course will provide students with an overview of the fundamentals of fundraising including such vehicles as major campaigns, donor research, management practices, and ethical issues.
Grade Mode: Normal Grading Mode

LS 628 Nonprofit & Public Sector Orgs **3 Credit hours**
Nonprofit & public sector organizations constitute a significant part of every community and this course is designed to examine the major leadership issues they encounter.
Grade Mode: Normal Grading Mode

LS 630 The School and the Community **3 Credit hours**
This course provides students the opportunity to study the concept of community, to examine relationship patterns, to explore the possibilities for combining the resources of the school and community in the interest of school improvement, and to evaluate communication strategies designed to enhance the school-community relationship.
Attributes: Onsite Learning Experience
Grade Mode: Normal Grading Mode

LS 632 Human Rel in Public Sec **3 Credit hours**
This course is designed to assist leaders in the public sector to establish and maintain positive relationships with the organization's staff and volunteers, as well as with its constituents.
Grade Mode: Normal Grading Mode

LS 633 Lead International Nonprofit **3 Credit hours**
This course will examine the structure, purpose and history of international nonprofit organizations. Also, included will be a study of public policy and the practice of philanthropy in countries other than the USA.
Grade Mode: Normal Grading Mode

LS 635 Organizational Theory **3 Credit hours**
This course analyzes leadership theories and their application to leadership and management in nonprofit and public sector organizations.
Grade Mode: Normal Grading Mode

LS 640 Legal Issues NPO & Public **3 Credit hours**
This course provides students with an overview of federal and state laws governing nonprofit and public sector organizations, current legal trends and legal issues affecting CEO's, staff, governing boards.
Grade Mode: Normal Grading Mode

LS 645 Comm Collaborative Plan Mgmt **3 Credit hours**
Students will be provided with the opportunity to anaylze the nature of collaboration among state, local, federal agencies, business, and community organizations to address an array of complex issues facing non-profit and public agencies. The importance of networking and social entrepreneurship are among other concepts that will be explored.
Grade Mode: Normal Grading Mode

LS 647 Adult & Continuing Educa **3 Credit hours**
This course develops an understanding of the principles, concepts, and processes involved in planning learning experiences for adults within the framework of higher education.
Grade Mode: Normal Grading Mode

LS 650 Internship-School Management 1 **3 Credit hours**
Grade Mode: Normal Grading Mode

LS 655 Externship **1-9 Credit hours**
This is a field-based course designed for practicing professionals.
Grade Mode: Normal Grading Mode

LS 660 Capstone: School Management **3 Credit hours**
Attributes: Onsite Learning Experience
Grade Mode: Normal Grading Mode

LS 661 Internship-Instr Supervision 2 **3 Credit hours**
Grade Mode: Normal Grading Mode

LS 675 Legal and Policy Issues **3 Credit hours**
This course examines the principal's role and responsibility related to law and administrative policy.
Attributes: Onsite Learning Experience
Grade Mode: Normal Grading Mode

LS 685 Capstone: Portfolio Assessment **3 Credit hours**
Training and assessment experiences for students seeking initial certification as a school principal.
Attributes: Onsite Learning Experience
Grade Mode: Normal Grading Mode

LS 690 Leadership Capstone Course **3 Credit hours**
This course represents a culminating experience and an opportunity to demonstrate a broad mastery of learning across the respective program curriculum.
Grade Mode: Normal Grading Mode

LS 691 The Attendance Director **3 Credit hours**
This course develops the administrative skills required for managing policies, programs, and activities related to the position of public school social worker or attendance director.
Attributes: Onsite Learning Experience
Grade Mode: Normal Grading Mode

LS 692 Capstone: School Social Serv **3 Credit hours**
This course provides pre-service training and assesment for students seeking licensure as a public school social worker/ attendance director.
Pre-req: LS 691 with a minimum grade of C.
Attributes: Onsite Learning Experience
Grade Mode: Normal Grading Mode

LS 693 Sch Law for Support Personnel **3 Credit hours**
This course provides the student with a working knowledge of school law and other legal matters as it pertains to the attendance director. The focus of this course is on those laws dealing with mandatory attendance and juvenile matters. (PR: Admission into the Social Services/Attendance Program)
Grade Mode: Normal Grading Mode

LS 700 Superintendency **3 Credit hours**
This course examines the roles, relationships, behaviors and competencies which characterize school superintendents ans their staffs.
Grade Mode: Normal Grading Mode

LS 701 Internship-Begng Supertndncy **3 Credit hours**
Grade Mode: Normal Grading Mode

LS 704 LDSH SP POP **3 Credit hours**
This course identifies and explains the laws and policies that service students with special needs. School leaders will learn to apply these laws to ensure they meet students' needs while making the best decisions for their school.
Grade Mode: Normal Grading Mode

LS 705 Administration Theory **3 Credit hours**
This course analyzes administrative theories and their application to organizational leadership and management.
Grade Mode: Normal Grading Mode

LS 707 Ethical Theory **3 Credit hours**
The course focuses on the primary ethical theories and the ethical resoning processes which are representative of each, providing students opportunities to analyze decisions against existing ethical models and reinforce or reform those decisions in light of moral principles.
Grade Mode: Normal Grading Mode

LS 708 Comparative Study Comm Coll **3 Credit hours**
An examination of community colleges in the U.S. and abroad including Canada, Europe, Asia, Africa, and South America. Areas for comparison include governance, finances, curriculum, faculty and students.
Grade Mode: Normal Grading Mode

LS 709 Leadership in a Global Crisis **3 Credit hours**
This course is designed to prepare students to successfully lead an organizations through a crisis such as a natural disaster, technological breach, terrorist attack or infrastructure failure. Integral to this is crisis preparedness planning and having systems in place that will enable an organization to recover from the aftermath of a crisis.
Grade Mode: Normal Grading Mode

LS 710 Principles of Leadership **3 Credit hours**
This course is a study of the characteristics and behaviors of leaders. Emphasis is on the development of understandings and abilities which will work in different situations.
Attributes: Online Course
Grade Mode: Normal Grading Mode

LS 711 School Leadership Practices 1 **3 Credit hours**
Grade Mode: Normal Grading Mode

LS 712 School Leadership Practices 2 **3 Credit hours**
Grade Mode: Normal Grading Mode

LS 714 Higher Ed Admin **3 Credit hours**
This course is a survey of higher education with attention to administrative functions at the campus and state levels.
Grade Mode: Normal Grading Mode

LS 715 Computer & School Management **3 Credit hours**
Grade Mode: Normal Grading Mode

LS 716 Higher Ed Governance **3 Credit hours**
This class will review different models for governing public higher education at a system level and will examine the changing nature of higher education.
Grade Mode: Normal Grading Mode

LS 717 Intro Stu Pers Adm/Higher Ed **3 Credit hours**
This course surveys the purpose and functions of student personnel administration in higher educational institutions and the administrative procedures developed to accomplish these purposes.
Grade Mode: Normal Grading Mode

LS 718 Hist of Higher Ed **3 Credit hours**
This course is designed to provide the student with an understanding of the historical development of American higher education. It will examine past and future issues that have or may affect higher education.
Grade Mode: Normal Grading Mode

LS 720 Financial Models in Education **3 Credit hours**
This course examines concepts in the financing and economics of education in multiple education environments.
Grade Mode: Normal Grading Mode

LS 724 Organizational Analysis **3 Credit hours**
This course is an interdisciplinary approach to the study of organizational structure, relationships, and functions focusing on problems and alternatives for solving them.
Grade Mode: Normal Grading Mode

LS 726 Institutional Adv in High Ed **3 Credit hours**
Students will understand the broad area of institutional advancement, including major campaigns, donor research, donor recognition programs, restricted gifts, and so forth.
Grade Mode: Normal Grading Mode

LS 730 Educational Facility Planning **3 Credit hours**
This course teaches the systematic collection and utilization of data in planning for educational facilities. (PR: Principal or supervisor certificate or consent)
Grade Mode: Normal Grading Mode

LS 735 Policy Studies **3 Credit hours**
This course focuses on current organizational policy issues and provides conceptual and analytical tools for their critical examination.
Grade Mode: Normal Grading Mode

LS 747 Admin of Comm Colleges **3 Credit hours**
An analysis of community college governance, structure, functions, and relationship with its respective community and local/state government.
Grade Mode: Normal Grading Mode

LS 755 Internship-Admin of Higher Ed **3 Credit hours**
This course provides a field experience in higher education administration. (PR: Consent)
Grade Mode: Normal Grading Mode

LS 756 Current Issues in Leadership **3 Credit hours**
The course focuses on current and emerging problems of leadership among varied organizational types.
Grade Mode: Normal Grading Mode

LS 760 Politics of Education **3 Credit hours**
This course explores the social process of governance in the public schools including higher education. The milieu of federal state and local inputs will be explored.
Grade Mode: Normal Grading Mode

LS 762 Higher Ed Politics **3 Credit hours**
This course is designed to make students familiar with the basic concepts and tools of politics. The course will apply these political concepts to higher education.
Grade Mode: Normal Grading Mode

LS 764 Adv Research I **3 Credit hours**
This class for doctoral candidates will develop a foundation in research methods, research ethics, and research skills.
Grade Mode: Credit/No Credit Grade Only

LS 765 Adv Res II in Lead Studies **3 Credit hours**
This is an advanced research course directed toward the preparation of a thesis or dissertation. (PR: Consent)
Pre-req: LS 764 with a minimum grade of C.
Attributes: Thesis
Grade Mode: Credit/No Credit Grade Only

LS 770 Practicum **3 Credit hours**
This is a highly individualized cooperative educational administration experience between the college and another public agency. (PR: Consent)
Grade Mode: Normal Grading Mode

LS 771 Capstone: District Lvl Leader **3 Credit hours**
This course provides candidates the opportunity to study and prepare for District Level Leadership.
Attributes: Onsite Learning Experience
Grade Mode: Normal Grading Mode

LS 772 School District Leadership 2 **3 Credit hours**
This is an individualized cooperative field experience in district level school administration. (PR: Consent)
Grade Mode: Normal Grading Mode

LS 775 Seminar **3 Credit hours**
This course is a concentrated analysis of current problems in educational administration. (PR: Consent)
Grade Mode: Normal Grading Mode

LS 780 Special Topics **1-6 Credit hours**
This course requires study, reading and research is an approved area of education and supervision. (PR: Consent)
Grade Mode: Normal Grading Mode

LS 785 Externship **1-9 Credit hours**
This is a field based program designed for practicing administrators. (PR: Consent)
Grade Mode: Normal Grading Mode

LS 787 Cont First Amendment Issues **3 Credit hours**
This course will examine contemporary first amendment issues as they relate to education in public education and higher education.
Grade Mode: Normal Grading Mode

LS 790 Dissertation Research **1-9 Credit hours**
Grade Mode: Normal Grading Mode

LS 792 MU Research Colloquium **3 Credit hours**
Grade Mode: Normal Grading Mode

LS 797 Dissertation Research **1-9 Credit hours**
Dissertation research is the purpose of this course. (PR: Consent)
Attributes: Thesis
Grade Mode: Credit/No Credit Grade Only

Literary Studies - Humanities

LITS 510 Comparative Approaches to Lit **3 Credit hours**
Exploration of literature via literary movements, themes, genres, or relationship to other disciplines. Specific works will be read and discussed as examples of the announced approach.
Grade Mode: Normal Grading Mode

LITS 520 Creative Wrtng/Pract Criticism **3 Credit hours**
Exploration of the possibilities for communication and expression in contemporary writing with emphasis on comprehension of structure, technique and self-criticism of the writing experience.
Grade Mode: Normal Grading Mode

LITS 522 Selected Topics in Writing **3 Credit hours**
The study of selected topics in writing (e.g., the expository essay, screen-writing, techniques of editing, etc.)
Grade Mode: Normal Grading Mode

LITS 540 Studies in Mythology/Folklore **1-6 Credit hours**
Selected topics in mythology and folklore (e.g., folk drama, folk tale, folk art). May be repeated for a maximum of 6 hours.
Grade Mode: Normal Grading Mode

LITS 580 Literature for Teachers **3 Credit hours**
Study and appreciation of selected works with special reference to the high school curriculum.
Grade Mode: Normal Grading Mode

LITS 600 Sel Topics in Literary Studies **1-6 Credit hours**
Grade Mode: Normal Grading Mode

LITS 615 Modern Southern Literature **3 Credit hours**
Course surveys important figures in Southern literature since the Southern Literary Renaissance of the 1920's and the Agrarian and Fugitive Movements.
Grade Mode: Normal Grading Mode

LITS 625 Shakespeare:Text,Stage & Film **3 Credit hours**
Focusing on selected Shakespearean plays, this course considers recent critical interpretations and explores how these have influenced stage and film productions. Contemporary adaptations of the plays will also be considered.
Grade Mode: Normal Grading Mode

LITS 636 Lit/Soc in Late 18 C England **3 Credit hours**
This course examines biographies, social, political and scientific writing, literary texts and the arts from 17501800 to understand English culture and the eighteenthcentury world.
Grade Mode: Normal Grading Mode

LITS 660 Modern Irish Novel **3 Credit hours**
This course examines the subject matter, techniques, and critical background of the maodern Anglo-Irish novel. Students will study representative examples by major novelists from the Republic and Northern Ireland.
Grade Mode: Normal Grading Mode

LITS 662 20th C Irish Drama **3 Credit hours**
From the founding of the Abbey Theatre to the present, this course traces the development of Irish drama as art form and culture artifact.
Grade Mode: Normal Grading Mode

LITS 670 Contemporary World Fiction **3 Credit hours**
Contemporary works of shorter fiction from around the world offer opportunities to apply cultural critiques and comparative literary perspectives, while considering the different national and cultural traditions presented.
Grade Mode: Normal Grading Mode

Management

MGT 500 Analytic Methods & Tech **3 Credit hours**
Provides competency in some of the basic quantitative skills necessary for analytical work in business administration. Required of all candidates who have had little or no undergraduate background in mathematics.
Grade Mode: Normal Grading Mode

MGT 578 Import Export Management **3 Credit hours**
Students will learn the general and specific information relevant to conducting import/export business to/from the United States to different parts of the world.
Grade Mode: Normal Grading Mode

MGT 580 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

MGT 601 Quant Methods-Business **3 Credit hours**
The use of quantitative methods for managerial decision making. A review of basic calculus and statistics as required in business. Other topics indlude decision analysis, linear programming and queuing. (PR: Full MBA Admission or Permission of MBA Director)
Grade Mode: Normal Grading Mode

MGT 610 OPERATIONS MANAGEMENT **3 Credit hours**
Grade Mode: Normal Grading Mode

MGT 611 Military Management I **3-9 Credit hours**
MGT 611 concerns the theory and practice of a military officer's management plans to attain outcomes consistent with the organization's mission and goals including strategy formulation, implementation and control.
Grade Mode: Credit/No Credit Grade Only

MGT 612 Military Management II **3-9 Credit hours**
MGT 612 concerns the theory and practice of a military officer's strategic human resource management plans to attain outcomes consistent with the organization's mission and goals including strategy formulation, implementation and control.
Grade Mode: Credit/No Credit Grade Only

MGT 613 Military Management III **3-9 Credit hours**
MGT 613 concerns the theory and practice of a military officer's quantitative and analytical management plans to attain outcomes consistent with the organization's mission and goals including strategy formulation, implementation and control.
Grade Mode: Credit/No Credit Grade Only

MGT 615 Mgmt of Innovation & Tech **3 Credit hours**
Provides a comprehensive introduction to technology and innovation management. Considers issues relating to international markets, innovation, and rapidly changing technology. Also covers effective organizational and managerial approaches to technology.
Grade Mode: Normal Grading Mode

MGT 620 Human Resource Management **3 Credit hours**
The study of policies, methods, and techniques utilized in personnel management and human relations. Specific attention is given to problems of recruitment, selection. compensation, motivation, communications, training , service and benefit programs, performance evaluation, safety, discipline, business ethics, and community relations. (PR: MGT 320 or MKT 511; and GSM admission or permission of GSM academic advisor)
Pre-req: MKT 511 with a minimum grade of C.
Grade Mode: Normal Grading Mode

MGT 630 Mgt & Supervisory Skills Devel **3 Credit hours**
An analysis and application of personal and organizational skills associated with the effective management of both public and private sector organizations. Skills to be developed or refined include time management,decision making, delegation, stress management, oral and written communication, team-building and others. Applied exercises, case studies, simulation, role play, films, and other learning methods are emphasized. (PR: MGT 672)
Pre-req: MGT 672 with a minimum grade of C or MGT 503G with a minimum grade of C.
Grade Mode: Normal Grading Mode

MGT 650 Special Topics **1-4 Credit hours**
PR: Permission of the division head and full M.B.A. admission or permission of GSM academic advisor.
Pre-req: MGT 503 with a minimum grade of C or MGT 503G with a minimum grade of C.
Grade Mode: Normal Grading Mode

MGT 651 Special Topics **1-3 Credit hours**
PR: Permission of the division head and full M.B.A. admission or permission of GSM academic advisor.
Grade Mode: Normal Grading Mode

MGT 655 Management of Small Business **3 Credit hours**
Pre-req: MGT 501 with a minimum grade of C or MGT 501G with a minimum grade of C.
Grade Mode: Normal Grading Mode

MGT 660 Independent Study **1-4 Credit hours**
Independent study of a specific nature under the
Grade Mode: Normal Grading Mode

MGT 665 MANAGEMENT INFORMATION SYSTEMS **3 Credit hours**
Grade Mode: Normal Grading Mode

MGT 670 Management Consulting Skills **3 Credit hours**
Pre-req: MGT 672 with a minimum grade of C or MGT 503G with a minimum grade of C.
Grade Mode: Normal Grading Mode

MGT 671 Business Admin Internship **3 Credit hours**
Project-oriented experience in business operations and organizations intended for those students with insufficient experience in the field. (PR: Full Admission and permission of program director)
Grade Mode: Normal Grading Mode

MGT 672 Organizational Behavior **3 Credit hours**
Basic ideas and concepts for the effective management of an organization. Major topics include motivation, communication and decision-making processes, group dynamics, leadership study, conflict management, work and organizational design, and organization development. Emphasis on the organizational behavior and theory.
Grade Mode: Normal Grading Mode

MGT 673 Prob Personnel Management **3 Credit hours**
Principles and procedures of the personnel system in the firm; selected areas of recruitment and selection; training and development; performance appraisal and evaluation; general communications system; role of government in manpower administration.
Pre-req: MGT 672 with a minimum grade of C or MGT 503G with a minimum grade of C.
Grade Mode: Normal Grading Mode

MGT 674 Prod/Operation Management **3 Credit hours**
The study of operations management methods used in production, manufacturing, services and other business operations. Includes project management, capacity planning and transportation problems.
Pre-req: MGT 601 with a minimum grade of C.
Grade Mode: Normal Grading Mode

MGT 675 Prob Labor-Mgt Relations **3 Credit hours**
Comprehensive coverage of the development of the field of industrial relations. The impact of organized labor and federal social legislation of management decision. Alternative directions for future developments are studied.
Pre-req: MGT 672 with a minimum grade of C or MGT 503G with a minimum grade of C.
Grade Mode: Normal Grading Mode

MGT 676 Organization Theory Desgn **3 Credit hours**
Analysis of organizational systems and subsystems incorporating, traditional, behavioral, and situational approaches to organizational and work unit design. Emphasizes environmental interface and interdependencies as function of internal systems phenomena.
Pre-req: MGT 672 with a minimum grade of C or MGT 503G with a minimum grade of C.
Grade Mode: Normal Grading Mode

MGT 677 Supply Chain Management **3 Credit hours**
This course is a study of efforts to optimize actions of manufacturers, suppliers, distributors, retailers, and other selected modes in their endeavors to serve the ultimate customers.
Grade Mode: Normal Grading Mode

MGT 680 Entrepreneurship **3 Credit hours**
The management of small business emphasizes how they are started and financed, how they produce and market their products and services and how they manage their human resources.
Grade Mode: Normal Grading Mode

MGT 681 Thesis **1-6 Credit hours**
Attributes: Thesis
Grade Mode: Normal Grading Mode

MGT 692 Ethics/Global Aspects Bus **3 Credit hours**
An examination of the Manager's social, ethical, and environmental responsibilities, not only to their domestic constituents, but also in the increasingly competitive international arena.
Pre-req: MGT 672 with a minimum grade of C.
Grade Mode: Normal Grading Mode

MGT 696 Admin Policy & Strategy **3 Credit hours**
Capstone graduate business course for Master of Science students (HRM & HCA). Emphasis on policy and strategy issues in a service and/or public setting instead of within a "for-profit" environment.
Grade Mode: Normal Grading Mode

MGT 698 Independent Study in Mgmt **1-3 Credit hours**
Grade Mode: Normal Grading Mode

MGT 699 Strategic Management **3 Credit hours**
The study and application of top management's plan to attain outcomes consistent with the organization's mission and goals, including; strategy formulation, implementation and control. (PR: Permission of GSM academic advisor)
Grade Mode: Normal Grading Mode

MGT 749 RESEARCH PAPER **3 Credit hours**
Grade Mode: Normal Grading Mode

MGT 797 THESIS **6 Credit hours**
Attributes: Thesis
Grade Mode: Normal Grading Mode

MGT 799 Business Policy **3 Credit hours**
Grade Mode: Normal Grading Mode

Public Administration

PADM 533 Public Policy Development **3 Credit hours**
An examination of alternative theoretical approaches to the study of policy and administration and their implications for the use of policy to shape administrative practice.
Grade Mode: Normal Grading Mode

PADM 552 Public Personnel **3 Credit hours**
Survey of Public Personnel Management with particular attention on various facets of the merit system concept. Psychological and human relations aspects of the work situation and supervisor-subordinate interaction emphasized.
Grade Mode: Normal Grading Mode

PADM 553 Public Finance Management **3 Credit hours**
Study of organization, administration, and accountability in the management of public funds, with emphasis on the political decision-making processes of budget formulation, representation, and execution.
Grade Mode: Normal Grading Mode

PADM 604 Data Driven Decision-Making **3 Credit hours**
Understanding data for effective decision-making. Explore methods of analysis, extract insights, and measure the impact of data-driven outcomes for organizations. Teaches technical skills for data gathering, management, and visualization.
Grade Mode: Normal Grading Mode

PADM 610 Strategic Resource Development **3 Credit hours**
Prepares students to secure and manage diverse funding streams for public and nonprofit sectors. Emphasizes grants, corporate sponsorships, and crowdfunding, with practice in grant writing, budgeting, and sustainable resource management.
Grade Mode: Normal Grading Mode

PADM 612 Public Sector Project Planning **3 Credit hours**
Introduces project management principles tailored to the public sector. Covers planning, scheduling, risk assessment, and stakeholder engagement, equipping students to initiate, organize, and implement effective projects in government and nonprofits.
Grade Mode: Normal Grading Mode

PADM 616 PADM Scope and Practice **3 Credit hours**
Capstone Experience: Navigate advanced topics in ethics, professional standards, and public management. Explore foundational theories, scope, and contemporary trends while drafting your MPA portfolio—a culmination of your academic MPA journey.
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

PADM 618 Debates in Public Admin **3 Credit hours**
Explore the complexities of public administration through critical examination and debates. Analyze emerging issues, dilemmas, and controversies to develop a nuanced understanding of contemporary management challenges and solutions.
Grade Mode: Normal Grading Mode

PADM 620 Comparative Public Admin **3 Credit hours**
This course will serve as an introduction to the comparative study of public administration. Students will be exposed to key areas of comparative research, including different methods used for analysis.
Grade Mode: Normal Grading Mode

PADM 621 City Management **3 Credit hours**
Exploration of policy challenges in metropolitan areas, examining structures, exploring alternatives, and evaluating outcomes. Gain insights into the multifaceted dynamics of city management and decision-making.
Grade Mode: Normal Grading Mode

PADM 625 Digital Governance & Policy **3 Credit hours**
Explores digital governance and public policy strategies, covering e-governance, data privacy, cybersecurity, citizen engagement, and digital equity. Prepares students to manage and innovate digital transformation in the public sector.
Grade Mode: Normal Grading Mode

PADM 627 Leaders and Innovators **3 Credit hours**
A comprehensive exploration of influential figures shaping U.S. public administration. It explores both prominent and lesser-known individuals and their intellectual contributions that define the American tradition of public administration.
Grade Mode: Normal Grading Mode

PADM 630 Ethics and Public Corruption **3 Credit hours**
Explores ethical principles and anti-corruption strategies in public management. Examines real-world cases to strengthen ethical decision-making, enhance accountability, and build transparency within government and nonprofit sectors.
Grade Mode: Normal Grading Mode

PADM 632 Nonprofit Management **3 Credit hours**
This course examines the principles and applied practices of nonprofit administration including theories of nonprofit formation, fundraising appeals, grant writing, executive leadership, marketing, budgeting, and strategic management.
Grade Mode: Normal Grading Mode

PADM 650 Administrative Law **3 Credit hours**
A study of the basic legal framework of administrative organization, including the problems of administrative discretion, rule making and adjudication, regulatory agencies, and administrative responsibility in the democratic state.
Grade Mode: Normal Grading Mode

PADM 654 Public Organizations **3 Credit hours**
A study of the contributions of the behavioral sciences to the study of organizations with stress on such concepts as leadership, motivation, power conflict, organizational design and decision making.
Grade Mode: Normal Grading Mode

PADM 660 Policy Analysis **3 Credit hours**
Development of theoretical and methodological skills in the analysis of public problems and the use of policy in problem solving.
Grade Mode: Normal Grading Mode

Philosophy

PHL 500 Ancient Philosophy **3 Credit hours**
Advanced study of major philosophers drawn from the ancient Greek and Roman period.
Grade Mode: Normal Grading Mode

PHL 501 Modern Philosophy **3 Credit hours**
Advanced study of major movements in philosophy from the 17th century on, movements such as rationalism, empiricism, idealism, and existentialism. (PR: Any philosophy course)
Grade Mode: Normal Grading Mode

PHL 520 Metaphysics **3 Credit hours**
A study of what Aristotle called "first philosophy" or the study of being -- later called metaphysics.
Grade Mode: Normal Grading Mode

PHL 521 Philosophy of Knowledge **3 Credit hours**
Advanced study of the nature and possibility of knowledge. (PR: Any philosophy course)
Grade Mode: Normal Grading Mode

PHL 551 Phil of History & Culture **3 Credit hours**
Ancient and modern theories of the meaning and consequence of history and culture.
Grade Mode: Normal Grading Mode

PHL 555 Philosophy of Religion **3 Credit hours**
Theories of the nature and functions of religion, including the meaning of religious language and problems of belief.
Grade Mode: Normal Grading Mode

PHL 560 Phil of Politics & Power **3 Credit hours**
Advanced study of the significance or the place in human reality of political organization, negotiation, strategy and power. (PR: Any philosophy course)
Grade Mode: Normal Grading Mode

PHL 565 Existential Philosophy **3 Credit hours**
A survey of the contributions of leading existentialist philosophers of the past and present from Kierkegaard and Nietzche to Sartre and Tillich; course is conducted much like a seminar.
Grade Mode: Normal Grading Mode

PHL 570 Philosophy of Logic **3 Credit hours**
Advanced study of the nature of logic: whether logic is possible at all, how far it applies, and whether and how there can be conflicting logics. (PR: Any philosophy course)
Grade Mode: Normal Grading Mode

PHL 580 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

PHL 581 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

PHL 582 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

PHL 583 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

PHL 585 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

PHL 586 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

PHL 587 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

PHL 588 Independent Study **1-4 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

PHL 599 Humanities Seminar **3 Credit hours**
Grade Mode: Normal Grading Mode

Political Science

PSC 511 Latin American Politics **3 Credit hours**
This course studies Latin American politics by sectors, such as landed elites, the military, the church, etc. Various styles of governance are considered. Case examples illustrate concetps discussed.
Grade Mode: Normal Grading Mode

PSC 544 Dictatorship & Democracy **3 Credit hours**
An investigation of the strengths of democracies relative to dictatorships with regard to such dimensions as economic growth, income equality, health and welfare of citizens and war reduction.
Grade Mode: Normal Grading Mode

PSC 582 Special Topics **1-4 Credit hours**
To offer a course on some special topic which is not adequately treated in the regular course offerings.
Grade Mode: Normal Grading Mode

PSC 588 Independent Study **1-4 Credit hours**
These numbers are reserved for tutorials, directed and independent research, problem reports, etc.
Grade Mode: Normal Grading Mode

PSC 601 Reading-Political Science **2-3 Credit hours**
Readings to meet the needs and interests of individual students.
Grade Mode: Normal Grading Mode

PSC 675 Legislative Internship **6 Credit hours**
Intensive work experience in the West Virginia legislative processes coupled with a seminar involving directed reading and the preparation of a paper. This is a cooperative program with West Virginia University and the Office of Legislative Services with only selected students participating.
Attributes: No Textbook Required, Onsite Learning Experience
Grade Mode: Normal Grading Mode

PSC 676 Internship / Practicum **3-6 Credit hours**
Supervised internship / practicum where students apply public administration principles in an approved field setting.
Attributes: No Textbook Required, Onsite Learning Experience
Grade Mode: Credit/No Credit Grade Only

Psychology

PSY 502 Adv Social Psychology **3 Credit hours**
Advanced study of selected topics in social psychology.
Grade Mode: Normal Grading Mode

PSY 503 Applied Social Psychology **3 Credit hours**
Examination of the applications of social psychological methods, theories, principles and research findings to the understanding of social problems.
Grade Mode: Normal Grading Mode

PSY 505 Sports Psychology **3 Credit hours**
An examination of theory, research, and application of psychological principles related to sport and exercise.
Grade Mode: Normal Grading Mode

PSY 506 Psychometrics **3 Credit hours**
Mental test theory and applications.
Grade Mode: Normal Grading Mode

PSY 508 Abnormal Psychology **3 Credit hours**
Study of the nature, causes and treatment of maladaptive human behavior.
Grade Mode: Normal Grading Mode

PSY 515 Child Psychology **3 Credit hours**
Grade Mode: Normal Grading Mode

PSY 516 Psychology of Learning **3 Credit hours**
Critical study of the major theories of learning and related research.
Grade Mode: Normal Grading Mode

PSY 517 Inter Behavioral Stat **3 Credit hours**
An intermediate level presentation of descriptive and inferential statistics as applied in behavioral research. 2 lec-2 lab.
Grade Mode: Normal Grading Mode

PSY 518 Psychology of Personnel **3 Credit hours**
Psychological principles and methods applied to functions in personnel administration.
Grade Mode: Normal Grading Mode

PSY 519 Theories of Personality **3 Credit hours**
Grade Mode: Normal Grading Mode

PSY 520 Intro to I-O Psychology **3 Credit hours**
A systematic study of the application of psychological methods and principles in business and industry. Emphasis is on research methods, motivation, training, leadership, personnel selection, employee safety, and job satisfaction.
Grade Mode: Normal Grading Mode

PSY 526 Cross Cultural Psychology **3 Credit hours**
Emic and etic cultural concepts are considered from an American (subcultural) and international perspective. Cultural influences on healing, health and service are covered.
Grade Mode: Normal Grading Mode

PSY 527 Computer Applic in PSY **3 Credit hours**
An introduction to computer applications in psychology, emphasizing data collection, management, organization, analysis and reporting.
Grade Mode: Normal Grading Mode

PSY 533 Curr Models of Psychotherapy **3 Credit hours**
Introduction to theoretical models and related therapeutic strategies which influence the practice of modern psychotherapy.
Grade Mode: Normal Grading Mode

PSY 540 Physiological Psychology **3 Credit hours**
The relationships between physiological functions and biochemical processes and behavior.
Grade Mode: Normal Grading Mode

PSY 543 Health Psychology **3 Credit hours**
Introduction to the contribution of psychology to the promotion and maintenance of health and the prevention and treatment of illness.
Grade Mode: Normal Grading Mode

PSY 560 History & Systems Psych **3 Credit hours**
Overview of Psychology from historical perspective.
Grade Mode: Normal Grading Mode

PSY 565 Love/Intimacy and Attachment **3 Credit hours**
Examination of how childhood attachments, bonds, and relationships affect and influence adult perspectives on love, expectations, intimacy, fidelity, and commitment.
Grade Mode: Normal Grading Mode

PSY 575 Race Culture and Dev Processes **3 Credit hours**
Examine the roles that race, ethnicity, and culture play in the physical, cognitive, intellectual, and social developmental processes of people of color.
Grade Mode: Normal Grading Mode

PSY 580 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

PSY 581 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

PSY 582 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

PSY 583 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

PSY 585 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

PSY 586 Independent Study **1-4 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

PSY 587 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

PSY 588 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

PSY 600 Teaching Psychology **3 Credit hours**
Grade Mode: Normal Grading Mode

PSY 605 Ethic Legal & Prof Issue Psych **3 Credit hours**
Introduction to ethical standards and issues, laws which influence psychological practice and current challenges facing psychology as a profession.
Grade Mode: Normal Grading Mode

PSY 606 Adv Social Psychology **3 Credit hours**
Advanced study of selected topics in social psychology.
Grade Mode: Normal Grading Mode

PSY 608 Differ Diagnosis & Treat Plan **3 Credit hours**
Grade Mode: Normal Grading Mode

PSY 610 Assessment of Adults **3 Credit hours**
Principles and methods of psychological assessment for adults. Key issues in test construction and training in report writing. (PR: Admission to Clinical Psychology CR: PSY 620)
Grade Mode: Normal Grading Mode

PSY 611 Assessment of Children **3 Credit hours**
Principles and methods of psychological assessment for children. Key issues in test construction and training and report writing. (PR: PSY 610, CR: PSY 621)
Pre-req: PSY 621 (may be taken concurrently).
Concurrent PR: PSY 621
Grade Mode: Normal Grading Mode

PSY 615 Adv Developmental Psychology **3 Credit hours**
Interpretation, evaluation, and selection of tests of ability, aptitude, attainment, interest and personality.
Grade Mode: Normal Grading Mode

PSY 616 Human Memory/Inform Proc **3 Credit hours**
Theory and research relating to human learning, memory and decision processes.
Grade Mode: Normal Grading Mode

PSY 617 App Psy: Aging in Appalachia **3 Credit hours**
Application of research in the biopsychosocial determinants of healthy aging, clinical concerns of senior adults, and evidence-based interventions, presented in the context of aging in Appalachia and rural areas. (PR: Graduate status)
Grade Mode: Normal Grading Mode

PSY 618 Psychopharmacology **3 Credit hours**
Survey of psychotropic drug substances with emphasis on neuropharmacological bases of drug action, current research methods and therapeutic implications.
Grade Mode: Normal Grading Mode

PSY 619 Psychotherapy with Children **3 Credit hours**
Grade Mode: Normal Grading Mode

PSY 620 Assessment Adults Practicum **3 Credit hours**
Students will be expected to administer, score, interpret and write reports for a battery of tests used with adults.
Pre-req: PSY 610 (may be taken concurrently).
Concurrent PR: PSY 610
Attributes: Onsite Learning Experience
Grade Mode: Credit/No Credit Grade Only

PSY 621 Assessment Children Practicum **3 Credit hours**
Integrated, battery-based assessment of children with emphases on test selection and construction, validity, reliability, special populations, cultural, and individual differences, and preparation of professional reports.
Pre-req: PSY 611 (may be taken concurrently).
Concurrent PR: PSY 611
Attributes: Onsite Learning Experience
Grade Mode: Credit/No Credit Grade Only

PSY 622 Research Sem in Psych **3 Credit hours**
This seminar covers advanced topics in research design and methodology. Students will explore various methods available to address specific research questions in the behavioral sciences.
Pre-req: PSY 517 with a minimum grade of D.
Grade Mode: Normal Grading Mode

PSY 623 Experimental Design **3 Credit hours**
An introduction to the design and interpretation of behavioral research. Emphasis is upon tests of significance and assumptions governing their application.
Pre-req: PSY 517 or (PSYC 521 or PSYC 521G).
Grade Mode: Normal Grading Mode

PSY 624 Multivariate Analysis **3 Credit hours**
Multivariate analysis in behavioral research including multiple regression, analysis of variance, canonical correlation, and principal components and factor analysis.
Pre-req: PSY 623 or PSY 652.
Grade Mode: Normal Grading Mode

PSY 627 Social Psych Bases of Groups **3 Credit hours**
Grade Mode: Normal Grading Mode

PSY 630 Adult Diagnosis & Therapy **3 Credit hours**
Current diagnostic criteria for adult psychopathology, including prevalence, epidemiology and socio-cultural mileu; in-depth presentation of psychtherapy with adults, including psychodynamic, gestalt, crisis and other modalities. (PR: Admission to clinical psychology graduate program; instructor permission.)
Grade Mode: Normal Grading Mode

PSY 632 Behavior Therapy **3 Credit hours**
Principles and techniques of the behavior therapies, and theories that underlie the behavioral approach.
Grade Mode: Normal Grading Mode

PSY 633 Individual Psychotherapy **3 Credit hours**
A survey of the basic skills and techniques used in treating various forms of psychopathology. (Admission to Clinical Psychology area of emphasis or Psy.D. program required.)
Grade Mode: Normal Grading Mode

PSY 634 Group Therapy **3 Credit hours**
Different types of group psychotherapy as appropriate for various problems and populations; intensive experience in at least two methods.
Pre-req: PSY 633.
Grade Mode: Normal Grading Mode

PSY 635 Child/Fam Diagn Therapy **3 Credit hours**
The course covers psychopathology, diagnosis and treatment of the major child and family disorders including childhood anxiety, depression, deliquency, parent-adolescent conflict, eating disorders,and others.
Grade Mode: Normal Grading Mode

PSY 650 Performance Appraisal **3 Credit hours**
The course will offer students a research-based investigation of the performance evaluation process within work organizations. Emphasis is given to human rater x ratee x appraisal system features interactions. (PR: Permission of the instructor.)
Pre-req: PSY 518 or MGT 620G.
Grade Mode: Normal Grading Mode

PSY 651 Adv Nonparametric Statistics **3 Credit hours**
Pre-req: PSY 517.
Grade Mode: Normal Grading Mode

PSY 652 Advanced Regression Techniques **3 Credit hours**
Pre-req: PSY 517 or PSYC 521G.
Grade Mode: Normal Grading Mode

PSY 654 Single Subject Analysis **3 Credit hours**
Pre-req: PSY 517.
Grade Mode: Normal Grading Mode

PSY 656 Research in Psychology **1-3 Credit hours**
Attributes: Thesis
Grade Mode: Normal Grading Mode

PSY 657 Research in Psychology **1-3 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

PSY 670 Clinical Practicum **3 Credit hours**
Supervised application of principles of therapy and evaluation in a clinical setting. CR/NC grading.
Pre-req: PSY 608 or PSYC 608G and PSY 633.
Attributes: Onsite Learning Experience
Grade Mode: Credit/No Credit Grade Only

PSY 671 Clinical Practicum **3 Credit hours**
Supervised application of principles of therapy and evaluation in a clincal setting. CR/NC grading.
Pre-req: PSY 608 with a minimum grade of C and PSY 633 with a minimum grade of C.
Attributes: No Textbook Required, Onsite Learning Experience
Grade Mode: Credit/No Credit Grade Only

PSY 672 Cognition and Emotion **3 Credit hours**
Theory and research findings in learning/memory, attention, problem solving, decision making, concept formation and perception. Emphasis will be on the cognitive and emotional factors that influence learning/memory and thinking.
Grade Mode: Normal Grading Mode

PSY 674 Biological Bases of Behavior **3 Credit hours**
Grade Mode: Normal Grading Mode

PSY 675 Pract Teach PSY **1-3 Credit hours**
Supervised teaching experience in introductory psychology, including development of lectures, classroom demonstrations, quizes, tests, extra credit activities and syllabi.
Pre-req: PSY 600.
Attributes: No Textbook Required
Grade Mode: Credit/No Credit Grade Only

PSY 676 Pract Teach PSY **1-3 Credit hours**
Supervised teaching experience in introductory psychology, including development of lectures, classroom demonstrations, quizes, tests, extra credit activities and syllabi.
Pre-req: PSY 600.
Grade Mode: Credit/No Credit Grade Only

PSY 680 Clinical Internship **1-6 Credit hours**
Placement in an approved mental health setting for minimum of 400 hours. Supervised by on-site personnel in addition to psychology faculty.
Pre-req: PSY 671 with a minimum grade of C or PSYC 725G with a minimum grade of C.
Attributes: No Textbook Required, Onsite Learning Experience
Grade Mode: Credit/No Credit Grade Only

PSY 681 Thesis **1-6 Credit hours**
Pre-req: PSY 517 with a minimum grade of C.
Attributes: No Textbook Required, Thesis
Grade Mode: Credit/No Credit Grade Only

PSY 683 I-O Psych Internship **3 Credit hours**
This course will offer students applied observational/ research experience in Personnel/Human Resource Departments under the supervision of professionals within the fields of Industrial-Organizational Psychology and Human Resources. (PR: Psy 5l8 or PSY 520 and Permission.)
Pre-req: PSY 518 and PSY 604 and PSY 624.
Attributes: Onsite Learning Experience
Grade Mode: Credit/No Credit Grade Only

PSY 685 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

PSY 686 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

PSY 687 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

PSY 688 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

PSY 690 Seminar **1-3 Credit hours**
Reports on current problems and literature in psychology and related fields; professional ethics.
Grade Mode: Normal Grading Mode

PSY 691 Seminar **1-3 Credit hours**
Reports on current problems and literature in psychology and related fields; professional ethics.
Grade Mode: Normal Grading Mode

PSY 692 Seminar **1-3 Credit hours**
Reports on current problems and literature in psychology and related fields; professional ethics.
Grade Mode: Normal Grading Mode

PSY 693 Seminar **1-3 Credit hours**
Reports on current problems and literature in psychology and related fields; professional ethics.
Grade Mode: Normal Grading Mode

PSY 694 Seminar **1-3 Credit hours**
Reports on current problems and literature in psychology and related fields; professional ethics.
Grade Mode: Normal Grading Mode

PSY 695 Seminar **1-3 Credit hours**
Reports on current problems and literature in psychology and related fields; professional ethics.
Grade Mode: Normal Grading Mode

PSY 697 Sem: Adv Res in Psychology **3 Credit hours**
This seminar will provide advanced coverage of topics related to the design of research in psychology. Students in the seminar will gain experience planning an independent research project.
Pre-req: PSY 517 or PSY 623.
Grade Mode: Normal Grading Mode

PSY 706 Integrated Assessment I **3 Credit hours**
Covers integrated, battery-based assessment of adults with emphasis on test selection and construction, validity, reliability, special populations, cultural and individual differences, and preparation of professional reports.
Pre-req: PSY 707 (may be taken concurrently).
Concurrent PR: PSY 707
Grade Mode: Normal Grading Mode

PSY 707 Int Assessment Pract I **3 Credit hours**
Covers instrument administration for the psychological assessment of adults; includes multiple diagnostic procedures.
Pre-req: PSY 706 (may be taken concurrently).
Concurrent PR: PSY 706
Grade Mode: Credit/No Credit Grade Only

PSY 708 Integrated Assessment II **3 Credit hours**
Covers integrated, battery-based assessment of children with emphasis on test selection and construction, validity, reliability, special populations, cultural and individual differences, and preparation of professional reports.
Grade Mode: Normal Grading Mode

PSY 709 Int Assessment Pract II **3 Credit hours**
Covers instrument administration for the psychological asessment of children; includes multiple diagnostic procedures.
Grade Mode: Credit/No Credit Grade Only

PSY 710 Adv Psych Assessment **3 Credit hours**
This course will offer coverage in advanced topics in psychological assessment. These topics will include geriatric assessment, assessment of addictions, neuropsychological screening, forensic assessment, and crosscultural assessment issues. (PR: Admission to Psy.D. program or permission of instructor.)
Grade Mode: Normal Grading Mode

PSY 712 Geropsychology **3 Credit hours**
An examination of normal and abnormal processes of aging, including common social, cognitive, health, and psychopathological problems, will be studied. Issues of community resources, assessment and therapy will be discussed. (PR: Admission to Psy.D. program or permission of instructor)
Grade Mode: Normal Grading Mode

PSY 713 Adv Assess Practicum **3 Credit hours**
This experience is designed to increase proficiency in psychological assessment through client experience. Students are supervised by a licensed psychologist in the campus training clinic.
Attributes: Onsite Learning Experience
Grade Mode: Credit/No Credit Grade Only

PSY 714 Adv Assess Practicum **3 Credit hours**
This experience is designed to increase proficiency in psychological assessment through client experience. Students are supervised by a licensed psychologist in the campus training clinic.
Attributes: Onsite Learning Experience
Grade Mode: Credit/No Credit Grade Only

PSY 717 Adv Quantitative Analysis **3 Credit hours**
An advanced level presentation of inferential statistics as applied in behavioral research as a part of experimental design and literature review.
Pre-req: PSY 517 or PSY 723.
Grade Mode: Normal Grading Mode

PSY 723 Clin Res Meth in Psych **3 Credit hours**
This course will provide an overview in basic research methods and ethical issues prevelant in the field of clinical psychology. Use of research to document clinical outcomes will also be addressed. Pre: Admission to Psy.D. Program or permission.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

PSY 726 Adv St Cross Cult Psych **3 Credit hours**
Comprehensive, broad scope course covering research topics, definitions and methodology; behavioural health needs of minorities; cultural perspectives on health/healing/wellness; international applications of psychological theory/practice.
Grade Mode: Normal Grading Mode

PSY 731 Psychotherapy I **3 Credit hours**
An introduction to theories underlying psychodynamic, cognitive, and behavior psychotherapies. Content will focus on basic concepts, theories of these models, and current empirical evaluation and evidence-based practice of these therapies. (PR: Admission to Psy.D. program or permission of instructor)
Grade Mode: Normal Grading Mode

PSY 732 Psychotherapy II **3 Credit hours**
An additional overview of the theories underlying psychodynamic, cognitive, and behavior psychotherapies. Content will focus on intervention and treatment planning, including current empirical evaluation and evidence-based practice of these therapies. (PR: Admission to Psy.D. program or permission of instructor)
Grade Mode: Normal Grading Mode

PSY 733 Psychotherapy III **3 Credit hours**
Ad advanced overview of the theories underlying psychodynamic, cognitive, and behavior psychotherapies with an emphasis on common elements and integration of these approaches and alternative or innovative models. (PR: Admission to Psy.D. program or permission of instructor)
Grade Mode: Normal Grading Mode

PSY 750 Clinical Health Psychology **3 Credit hours**
This course will provide an overview of common medical problems, and their related psychological issues. Adjustment issues, health behavior, family impacts, and medical compliance will also be discussed. (PR: Admission to Psy.D. program or permission of instructor.)
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

PSY 752 Rural Community Psych I **3 Credit hours**
This course presents an overview of the philosophy, issues, methods, and interventions of community psychology practice. Students will complete field projects as part of the experience. (PR: Admission to Psy.D. program of instructor.)
Grade Mode: Normal Grading Mode

PSY 753 Supervision in Clin Psy **3 Credit hours**
Review of current supervision research and theory combined with opportunities for doctoral students to gain supervised experience in clinical supervision. (PR: Admission to Psy D program or permission of instructor.
Grade Mode: Normal Grading Mode

PSY 755 Rural Community Psych II **3 Credit hours**
This course prepares students to undertake supervised practice in rural areas, including employment of appropriate research techniques and the design of culturally and economically effective interventions. (PR: Admission to Psy.D program or permission of instructor)
Grade Mode: Normal Grading Mode

PSY 756 Independent Study **1-4 Credit hours**
This is a doctoral level course which will permit students to explore topics in-depth that are not part of the regular curriculum. Faculty supervision is required.
Grade Mode: Normal Grading Mode

PSY 764 Adv Human Sexuality **3 Credit hours**
An examination of the knowledge and theory which explain important areas of sexual behavior. Topics emphasize sexual orientations, sexual dysfunctions, gender identity, paraphilias, compulsive and coercive behavior. PR: Admission to Psy.D. program or permission of instructor.)
Grade Mode: Normal Grading Mode

PSY 768 Pract in Clinical Psychology **3 Credit hours**
Supervised application of principles of therapy and evaluation in a clinical setting. (PR: PSY 671 or Consent)
Pre-req: PSY 671 with a minimum grade of C.
Grade Mode: Credit/No Credit Grade Only

PSY 769 Pract in Clinical Psychology **3 Credit hours**
Supervised application of principles of therapy and evaluation in a clinical setting. CR/NC grading.
Pre-req: PSY 671 with a minimum grade of C.
Grade Mode: Credit/No Credit Grade Only

PSY 770 Adv Practicum in Clin Psy **3 Credit hours**
Students provide supervised clinical services at an approved field site. Pr: Admission to Psy.D. Completion of PSY 670-671 and Permission.
Attributes: Onsite Learning Experience
Grade Mode: Credit/No Credit Grade Only

PSY 771 Adv Practicum in Clin Psy **3 Credit hours**
Students provide supervised clinical services at an approved field site. Pre: Admission to Psy.D Completion of PSY 670-671 and Permission.
Attributes: No Textbook Required, Onsite Learning Experience
Grade Mode: Credit/No Credit Grade Only

PSY 772 Rural Pract I **3 Credit hours**
Supervised two semester sequence providing field experience in rural mental health settings. (PR: PSY 755; 752; 770; 771)
Pre-req: PSY 770 and PSY 771.
Grade Mode: Credit/No Credit Grade Only

PSY 773 Rural Practicum II **3 Credit hours**
Supervised two semester sequence providing field experience in rural mental health settings. (PR: PSY 755; 752; 770; 771)
Attributes: No Textbook Required, Onsite Learning Experience
Grade Mode: Credit/No Credit Grade Only

PSY 780 Pre-Doctoral Internship **1-9 Credit hours**
Culminating training experience within the Psy. D. program. Students complete full-time, full year placement (or 2 year equivialent) at a APA/APPIC accredited site or one approved by clinical faculty.
Attributes: Onsite Learning Experience
Grade Mode: Credit/No Credit Grade Only

PSY 781 Pre-doctoral Internship **1-9 Credit hours**
Culminating training experience within the Psy. D. program. Students complete full-time, full year placement (or 2 year equivalent) at an APA/APPIC accredited site or one approved by clinical faculty.
Attributes: No Textbook Required, Onsite Learning Experience
Grade Mode: Credit/No Credit Grade Only

PSY 782 Pre-doctoral Internship **1-9 Credit hours**
Culminating training experience within the Psy. D. program. Students complete full-time, full year placement (or 2 year equivalent) at an APA/APPIC accredited site or one approved by clinical faculty.
Attributes: Onsite Learning Experience
Grade Mode: Credit/No Credit Grade Only

PSY 783 Pre-Doctoral Internship **1-9 Credit hours**
Culminating training experience within the Psy. D. program. Students complete full-time, full year placement (or 2 year equivalent) at an APA/APPIC accredited site or one approved by clinical faculty.
Attributes: Onsite Learning Experience
Grade Mode: Credit/No Credit Grade Only

PSY 790 Sem: Clinical Psychology **1-3 Credit hours**
Seminars on current topics and issues of interest to clinical psychologists. Topics will change for each semester. Psy D program students are required to enroll for six semesters of seminars; check with advisor for details.
Grade Mode: Normal Grading Mode

PSY 791 Sem: Clinical Psychology **1-3 Credit hours**
Seminars on current topics and issues of interest to clinical psychologists. Topics will change for each semester. Psy D program students are required to enroll for six semesters of seminars; check with advisor for details.
Grade Mode: Normal Grading Mode

PSY 792 Sem: Clinical Psychology **1-3 Credit hours**
Seminars on current topics and issues of interest to clinical psychologists. Topics will change for each semester. Psy D program students are required to enroll for six semesters of seminars; check with advisor for details.
Grade Mode: Normal Grading Mode

PSY 793 Sem: Clinical Psychology **1-3 Credit hours**
Seminars on current topics and issues of interest to clinical psychologists. Topics will change for each semester. Psy D program students are required to enroll for six semesters of seminars; check with advisor for details.
Grade Mode: Normal Grading Mode

PSY 794 Sem: Clinical PSY **1-3 Credit hours**
Seminars on current topics and issues of interest to clinical psychologists. Topics will change for each semester. Psy D program students are required to enroll for six semesters of seminars; check with advisor for details.
Grade Mode: Normal Grading Mode

PSY 795 Sem:Clinical Psychology **1-3 Credit hours**
Seminars on current topics and issues of interest to clinical psychologists. Topics will change for each semester. Psy D program students are required to enroll for six semesters of seminars; check with advisor for details.
Grade Mode: Normal Grading Mode

PSY 796 Sem: Clinical PSY **1-3 Credit hours**
Seminars on current topics and issues of interest to clinical psychologists. Topics will change for each semester. Psy D program students are required to enroll for six semesters of seminars: check with advisor for details.
Grade Mode: Normal Grading Mode

PSY 799 Doctoral Research **3-9 Credit hours**
Doctoral research project under the supervision of research committee and chair. (Prerequisites: Permission of Program)
Attributes: No Textbook Required
Grade Mode: Credit/No Credit Grade Only

Sociology

SOC 501 Population and Human Ecology **3 Credit hours**
The course focuses on population and its relation to characteristics of environment. Specifically, it is designed to discuss the interaction of population processes and resources.
Grade Mode: Normal Grading Mode

SOC 508 The Family **3 Credit hours**
Theoretical analysis of the family as a primary social institution.
Grade Mode: Normal Grading Mode

SOC 513 Social Movements & Soc Change **3 Credit hours**
Analysis of large-scale social change, including intentional social movements and revolutions.
Grade Mode: Normal Grading Mode

SOC 520 Criminology **3 Credit hours**
An overview of sociological criminology, including an examination of explanations of criminal behavior, types of criminal activity, and an analysis of the criminal justice system.
Grade Mode: Normal Grading Mode

SOC 523 Social Class, Power & Conflict **3 Credit hours**
Theoretical analysis of economic and political inequality and the role of social conflict in the process of largescale social organization.
Grade Mode: Normal Grading Mode

SOC 525 Race and Ethnicity **3 Credit hours**
Diverse theoretical approaches to the meaning of race and ethnicity and the character of racial/ethnic relations, with substantive focus primarily on the U.S.
Grade Mode: Normal Grading Mode

SOC 528 Medical Sociology **3 Credit hours**
Social organization of modern medicine and allied health delivery systems.
Grade Mode: Normal Grading Mode

SOC 530 Women In Sports **3 Credit hours**
The history of women in sport, gender equity, opportunities for women in intercollegiate and professional sports (such as participate, coach, trainer, journalist, agent, and promoter), and physiological perspectives.
Grade Mode: Normal Grading Mode

SOC 532 Sociology of Appalachia **3 Credit hours**
Study of the economics, politics, and social relations of Appalachia, including contemporary debates.
Grade Mode: Normal Grading Mode

SOC 533 Sociology of Work **3 Credit hours**
Study of the organization and structure of the workplant as a social system; the meaning and organizations of work; managerial functions; management-labor relations; and human relations in industry.
Grade Mode: Normal Grading Mode

SOC 540 Intro to the Soc of Aging **3 Credit hours**
An introduction to the social processes and consequences of growing older for both the individual and society.
Grade Mode: Normal Grading Mode

SOC 542 Urban Sociology **3 Credit hours**
The sociology of urban and metropolitan communities.
Grade Mode: Normal Grading Mode

SOC 543 Evaluation Research **3 Credit hours**
Analysis and application of theories and methods for assessing the outcomes of applied organizational services and programs to affect change in people and for social conditions.
Grade Mode: Normal Grading Mode

SOC 550 Sociology of Religion **3 Credit hours**
An investigation into the nature of religion as a social phenomenon.
Grade Mode: Normal Grading Mode

SOC 551 Science Knowledge & Tech **3 Credit hours**
Studies science knowledge and technology as a human endeavor. Examines the processes and products, controversies, social impacts, interactions between science and other social institutions like religion and politics.
Pre-req: SOC 200.
Grade Mode: Normal Grading Mode

SOC 552 Soc Of Death & Dying **3 Credit hours**
The study of death and dying as a societal and cultural phenomenon. Explores how institutions within our society deal with death.
Grade Mode: Normal Grading Mode

SOC 555 Sociology of Sex and Gender **3 Credit hours**
Analysis of social differentiation and inequality by gender, with a focus on the contemporary U.S.
Grade Mode: Normal Grading Mode

SOC 560 The Holocaust and Genocide **3 Credit hours**
An examination of the Holocaust and other genocides from an interdisciplinary social science perspective.
Grade Mode: Normal Grading Mode

SOC 565 Environment and Society **3 Credit hours**
A critical examination of the link between society and the environment, including ideas about nature, wilderness, and the wild; causes of environmental degradation and responses to environmental issues.
Grade Mode: Normal Grading Mode

SOC 566 Culture and Environment **3 Credit hours**
This course will examine the symbolic and structural dimensions of struggles over defining, organizing, and controlling the natural environment from a biocultural perspective.
Grade Mode: Normal Grading Mode

SOC 568 National Identity **3 Credit hours**
Exploration of the cultural, political and economic processes that contribute to the creation and maintenance of the modern nation state as an imagined community.
Grade Mode: Normal Grading Mode

SOC 570 Soc Field Experience **3-6 Credit hours**
Supervised field work in a social organization or community working on practical problems.
Attributes: Onsite Learning Experience
Grade Mode: Normal Grading Mode

SOC 571 Soc Field Experience **3-6 Credit hours**
Supervised field work in a social organization or community working on practical problems.
Pre-req: SOC 506.
Grade Mode: Normal Grading Mode

SOC 580 Special Topics **1-4 Credit hours**
Study of topics not covered in regularly scheduled courses.
Grade Mode: Normal Grading Mode

SOC 581 Special Topics **1-4 Credit hours**
Study of topics not covered in regularly scheduled courses.
Grade Mode: Normal Grading Mode

SOC 582 Special Topics **1-4 Credit hours**
Study of topics not covered in regularly scheduled courses.
Grade Mode: Normal Grading Mode

SOC 583 Special Topics **1-4 Credit hours**
Study of topics not covered in regularly scheduled courses.
Grade Mode: Normal Grading Mode

SOC 585 Independent Study **1-4 Credit hours**
Individual study of topics not offered in regularly scheduled courses.
Grade Mode: Normal Grading Mode

SOC 586 Independent Study **1-4 Credit hours**
Individual study of topics not offered in regularly scheduled courses.
Grade Mode: Normal Grading Mode

SOC 587 Independent Study **1-4 Credit hours**
Individual study of topics not offered in regularly scheduled courses.
Grade Mode: Normal Grading Mode

SOC 588 Independent Study **1-4 Credit hours**
Individual study of topics not offered in regularly scheduled courses.
Grade Mode: Normal Grading Mode

SOC 600 Classical Sociological Theory **3 Credit hours**
An examination of the development of sociological theory, from its Enlightenment roots through its growth in the nineteenth and twentieth centuries, including the works of Comte, Spencer, Marx, Durkheim, Weber, and Simmel.
Grade Mode: Normal Grading Mode

SOC 601 Contemp Sociological Theory **3 Credit hours**
Advanced introduction to major theoretical developments and issues of significance in contemporary sociological theory, examining various theoretical perspectives at different levels of analysis and from different viewpoints.
Grade Mode: Normal Grading Mode

SOC 602 Contemp Social Change **3 Credit hours**
Theories of social change and their used in analyzing social change of today.
Grade Mode: Normal Grading Mode

SOC 603 Behavioral Science I **3 Credit hours**
Seminar in behavioral science theory.
Grade Mode: Normal Grading Mode

SOC 604 Behavioral Science II **3 Credit hours**
Seminar in behavioral science theory.
Grade Mode: Normal Grading Mode

SOC 605 Qual Res Methods and Analysis **3 Credit hours**
Seminar in qualitative research methods and analysis. Topics covered include coding, using qualitative software, generating theory, participant observation, intensive interview, internet inquiry, focus groups, documents, and content analysis.
Grade Mode: Normal Grading Mode

SOC 606 Quantitative Res Meth Analysis **3 Credit hours**
An introduction to quantitative research methods, statistics, and the software SPSS at an intermediate to advanced level with the main focus on developing working knowledge of the methods discussed.
Grade Mode: Normal Grading Mode

SOC 609 Professional Development **3 Credit hours**
Career preparation for teaching, research, and non-academic settings.
Grade Mode: Credit/No Credit Grade Only

SOC 614 Applied Demography **3 Credit hours**
Grade Mode: Normal Grading Mode

SOC 615 Applied Demography **3 Credit hours**
The focus of this course is to study the application of the principles and methods of demography to decision making and planning problems in both public and private setting.
Grade Mode: Normal Grading Mode

SOC 620 Criminology **3 Credit hours**
Seminar in crime and delinquency.
Grade Mode: Normal Grading Mode

SOC 640 Problems Aging Society **3 Credit hours**
Seminar in current and anticipated social consequences of aging for individuals and society and societal responses to this process.
Grade Mode: Normal Grading Mode

SOC 645 Social Statistics II **3 Credit hours**
Intermediate level statistical analysis including analysis of variance and covariance.
Grade Mode: Normal Grading Mode

SOC 655 Feminist Social Theory **3 Credit hours**
Diverse theoretical perspectives on the orgins and nature of gender, inequality. Emphasis on contemporary debates and their political implications.
Grade Mode: Normal Grading Mode

SOC 668 Seminar **1-3 Credit hours**
Topics vary from semester to semester.
Grade Mode: Normal Grading Mode

SOC 679 Problem Report **1-3 Credit hours**
The preparatin of a written report on a research problem or field study in sociology.
Grade Mode: Normal Grading Mode

SOC 681 Thesis **1-6 Credit hours**
Individual research in a selected field of sciology under the direction of a member of the department.
Attributes: Thesis
Grade Mode: Normal Grading Mode

SOC 685 Independent Study **1-4 Credit hours**
Individual study of topics not offered in regularly scheduled courses.
Grade Mode: Normal Grading Mode

Women's Studies

WS 483 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

WS 485 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

WS 486 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

WS 487 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

WS 488 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

Accessibility Awareness, Graduate Certificate

Industry leaders like Adobe, Amazon, Facebook, IBM, Google, Microsoft, Netflix and Verizon Media are actively recruiting people who can create products everyone can use, but they cannot find appropriately trained talent due to a significant skills gap (Teach Access, 2019). The Partnership on Employment and Accessible Technology (PEAT, 2018) found that 63% of companies surveyed said they do not have sufficient accessibility technology skills in their organization or candidates interviewed. Ninety-three percent said demand for accessibility skills will increase in the future. The interdisciplinary Accessibility Awareness Certificate will help students obtain knowledge and skills related to providing technology accessibility for all people, including those with disabilities, to become more employable. Coursework will increase student knowledge and provide learning experiences designed to foster innovation and creative problem-solving with disability perspectives in curriculum and instruction.

Applicants interested in the certificate program should apply for admission to Marshall University as a Certificate/Professional Development student and indicate the Certificate in Accessibility Awareness on the application.

The 12-hour interdisciplinary Accessibility Awareness Certificate provides knowledge and skills related to providing technology accessibility for all people, including those with disabilities, to become more employable. Coursework fosters innovation and creative problem-solving with disability perspectives in curriculum and instruction.

Code	Title	Credit Hours
Course Requirements		
HRM 632	HR for Special Population	3
MGT 615	Mgmt of Innovation & Tech	3
MIS 659	Digital Access Pol & Strats	3
Choose one of the following:		3
MIS 698	ITM Internship	
MIS 688	Independent Study	
MGT 660	Independent Study	
MGT 671	Business Admin Internship	
Total Credit Hours		**12**

Aging in Appalachia, Graduate Certificate

This certificate is an interdisciplinary exploration of multiple aspects of aging in the region of Appalachia. This certificate can be attached to multiple degree programs as specialization in this area. This certificate Is flexible.

The following are the courses/curriculum for the certificate:

Code	Title	Credit Hours
Required		
Cultural Competence in Appalachia - choose 1 course from:		*3*
CULS 610	Seminar in Appalachian Culture	
CULS 611	Appal Std: Themes & Voices	
CULS 612	Time & Place in Appalachia	
PSY 617	App Psy: Aging in Appalachia	3
Internship/Capstone/Practicum - chosen in consultation with major advisor and certificate director		*3*
Electives (Choose 2)		*6*
SOC 540	Intro to the Soc of Aging	
SOC 640	Problems Aging Society	
COUN 602	Human Devel and Adjustment	
HRM 632	HR for Special Population	
SWK 511	Foundations of HBSE	

SWK 673	Family & Community Violence	
Total Credit Hours		**15**

Selected topics courses in aging can substitute for a required course when approved by the certificate director.

Anthropology, Minor

A minor in anthropology is earned by taking at least 9 credit hours in courses at the 500- or 600- level in Anthropology as approved by the student's advisor and the Graduate Program Director in the Department of Sociology and Anthropology.

Appalachian Studies, Graduate Certificate

The M.A. in Humanities program is home to the Graduate Certificate in Appalachian Studies, a virtual, non-degree program of 16 hours composed of foundation courses (CULS 611 Appal Std: Themes & Voices or CULS 612 Time & Place in Appalachia), electives to meet specific educational goals, and a capstone research experience (HUMN 680 Independent Research Symposium).

Courses in the program are conducted in a virtual graduate-level seminar format, characterized by challenging readings, involved discussion, and mentored research and application. Importantly, the virtual delivery format allows the program to engage with scholars and practitioners across the region, who work with students to undertake dynamic, collaborative explorations of Appalachian studies.

For additional information and a list of affiliated scholars and practitioners see the Graduate Humanities program website.

Admission Requirements

Students may pursue the graduate certificate in Appalachian Studies while enrolled in the Humanities M.A. program **or** as a certificate-only student. Students already enrolled in the M.A. degree program should submit to Graduate Admissions a Secondary Program Request form: https://www.marshall.edu/graduate/current-students/forms-and-information/.

Applicants interested in the certificate-only program should apply for admission to Marshall University as a Certificate/Professional Development student and select on the application form the Certificate in Appalachian Studies. Applicants must have a bachelor's degree from an accepted, accredited institution, and an undergraduate GPA of 3.0 on a 4.0 scale from the bachelor's degree transcript.

Applicants are strongly encouraged to review the program web site https://www.marshall.edu/graduatehumanities/ and contact the Graduate Humanities program director before officially applying to the Certificate program.

Course Requirements

- Interdisciplinary Core Classes (3 hours). Choose One:
  - CULS 611 Appal Std: Themes & Voices Orients students to the significant political, social, and cultural issues and research in Appalachian studies.
  - CULS 612 Time & Place in Appalachia Examines the importance of geography, topography, and geology to the history and development of the Appalachian region.
- Electives (9 hours)
  Students may take a broad range of rotating and Special Topics courses. Examples include:
  - Appalachian Cultures
  - Appalachian Archaeology
  - Geography of Appalachia
  - West Virginia History
  - First Peoples of Appalachia
  - Images of Appalachia
  - Religious Traditions in Appalachia
  - Ethnic History of West Virginia
  - Coal Mine Life, Work and Culture
  - Sociology of Appalachia
  - Appalachian Writers - 20th C.
- Capstone Experience (3 - 6 hours) HUMN 680 Independent Research Symposium
  This research colloquium affords students the opportunity to complete independent research or field work under the guidance of faculty mentors teaching in the certificate program. Seminar meetings allow students to share research and examine issues arising from the research.

Behavioral Statistics, Graduate Certificate

Psychology and behavioral research are based, in part, upon the assumption of an orderly analysis of empirical data. Within psychology, behavioral statistics offer the foundation for discovery and advancement of the profession and provide the support for the demonstrability of treatment programs and other forms of psychological intervention.

The Graduate Certificate in Behavioral Statistics offers a comprehensive array of statistical tools and analyses that will enable those who complete the certificate both private and public sector opportunity. The certificate represents a balance between the large sample parametric statistics of experimental design [ANOVA] and regression and the areas of non-parametric and small or single subject design.

Certificate holders will be able to create, design, and implement real-world statistical paradigms.

Employers will benefit from the breadth of the program in the graduates' ability to apply behavioral statistical paradigms to their knowledge base.

Admission Requirements

Applicants interested in the certificate-only program should apply for admission to Marshall University as a Certificate/Professional Development student and select on the application form the Certificate in Behavioral Statistics. The Admissions requirements for the certificate program are the same as for the M.A. program in Psychology.

All credits earned in the Graduate Certificate Program in Behavioral Statistics may be applied to a master's degree. For example, PSY 517 Inter Behavioral Stat is a current requirement for the master's degree in Psychology. Other credits earned in the behavioral statistics

program may be applied in part to the elective hours required for the M.A. degree in Psychology.

Program Requirements

Two-C Rule and Student Behavior

The following two statements are applicable to all psychology graduate programs:

1. *2-C Rule:* Psychology students cannot be admitted to, or continue in, a graduate program in psychology if they earn more than one grade of *"C"* or lower in any graduate course in psychology or any course included in the plan of study. Such students will not be permitted to continue taking courses or to work on a doctoral research project. Please see the complete description of the 2-C Rule on the second page of the M.A. in Psychology section.
2. *Ethics and Student Behavior:* Students in all programs are expected to behave in accordance with the APA Ethical Principles and Code of Conduct. Consequences for violations may include suspension or dismissal from the student's program of study. When students in the clinical area of emphasis (M.A. program) or the Psy.D. program exhibit behavior indicating inability or limited capacity to successfully perform clinical roles and functions, they may be suspended or dismissed from their program of study.

1.

Course Requirements

Code	Title	Credit Hours
PSY 517	Inter Behavioral Stat	3
PSY 623	Experimental Design	3
PSY 624	Multivariate Analysis	3
PSY 651	Adv Nonparametric Statistics	3
or PSY 654	Single Subject Analysis	
Total Credit Hours		**12**

Communication Studies, M.A.

Program Description

The M.A. degree in Communication Studies provides an opportunity for students to develop individual programs of theory, research, and application among the areas of interpersonal, organizational, and public communication. The program is designed for students who seek careers as communication professionals or who intend to pursue further graduate study in the field.

Admission Requirements

Applicants should follow the admissions process described in the Graduate Catalog, or at the Graduate Admissions website at www.marshall.edu/graduate/admissions/how-to-apply-for-admission (http://www.marshall.edu/graduate/admissions/how-to-apply-for-admission/).

In addition, to be unconditionally admitted to the Communication Studies department, an applicant must have:

- An undergraduate GPA of 3.0 or better on a 4.0 scale for all previously completed undergraduate university work.
- A written statement of educational and professional goals addressing how the Communication Studies M.A. program will help achieve those goals. (500 words)

International students and applicants who have earned a degree from a non-English institution must provide proof of English proficiency as follows: minimum of 80 on TOEFL IBT (or 550 paper-based); IELTS 6.5.

Provisional Admission

The Communication Studies program may admit applicants provisionally who have an undergraduate degree GPA between 2.5 and 2.99 on a 4.0 scale. Students admitted provisionally must attain a 3.0 GPA their first semester in the program or be academically dismissed.

Students admitted provisionally will not be eligible for a teaching assistantship their first semester in the program.

Assistantships and Financial Support

The Department of Communication Studies has funds available in the form of assistantships to provide financial support for graduate students. For complete information on graduate assistantships please see www.marshall.edu/graduate/graduate-assistantships-2/graduate-assistantship-overview (http://www.marshall.edu/graduate/graduate-assistantships-2/graduate-assistantship-overview/).

For complete information on other financial support opportunities please see www.marshall.edu/graduate (http://www.marshall.edu/graduate/).

Program Requirements

A Plan of Study approved by the department/program and the academic dean must be filed in the Graduate Studies office before the student registers for the 12th semester hour. Students prepare a Plan of Study in conjunction with a committee of three graduate faculty members. At least one member of the committee must have full graduate faculty status.

The Plan of Study must include CMM 601 Quantitative Research in Comm and CMM 606 Engaging Comm Theories. A total of 36 credit hours is required for graduation. Students who write a thesis may earn six of those credit hours for the thesis. A minor or cognate outside the department may be approved by a student's committee.

A written comprehensive exam, prepared and evaluated by the student's committee, is required. A candidate who writes a thesis is also required to pass an oral examination on the thesis.

English, M.A.

Program Description

The English M.A. at Marshall is designed to meet the increasingly diverse needs of today's graduate students. Students are encouraged to approach their studies from the perspective that best serves their academic purposes and/or career plans, be it Literary Studies, Composition/Rhetoric, and/or Creative Writing. To this end, our program offers a great deal of flexibility at all levels.

Program Goals

Upon completion of the program students will be able to:

- articulate core issues in Literary Studies, Composition/Rhetoric, and/or Creative Writing from diverse perspectives;
- critique the major figures, works, and ideas in one or more of the above areas;
- apply the research methods and approaches to inquiry used in Literary Studies, Composition/Rhetoric, and Creative Writing;
- articulate recent developments in these fields as influenced by other disciplines;
- elucidate major critical and cultural theories in Literary Studies, Composition/Rhetoric, and/or Creative Writing, and assess sources on those theories in relation to the field;
- prepare a capstone project that demonstrates advanced knowledge and applied learning in Literary Studies, Composition/Rhetoric, and/or Creative Writing.

Admission Requirements

Applicants should follow the admissions process described in this catalog or at the Graduate Admissions website at www.marshall.edu/graduate/admissions/how-to-apply-for-admission (http://www.marshall.edu/graduate/admissions/how-to-apply-for-admission/). All admission materials must be sent to the Graduate Admissions Office.

In addition, to be admitted to the English department, an applicant must have:

- an undergraduate Grade Point Average (GPA) of 3.0 or higher on a 4.0 scale for all previously completed undergraduate university work (otherwise strong candidates may be fully admitted with a 2.75 GPA);
- a letter of interest/ personal statement identifying the applicant's reasons for pursuing an M.A. and how the degree will contribute to the applicant's broader plans (1-2 pages);
- a writing sample of 8-12 pages (scholarly essay, creative writing, or language study), prefaced by a brief explanation of why this work has been selected;
- at least three professional letters of recommendation regarding the applicant's academic ability, at least two of which must be from college instructors. Applicants who are not able to obtain letters from college instructors may submit letters from other professional sources with a brief note of explanation.

International students and applicants who have earned a degree from a non-English institution must provide proof of English proficiency as follows: minimum of 80 on TOEFL IBT (or 550 paper based); IELTS 6.5; Duolingo 105.

Conditional Admission

The English M.A. program may admit applicants conditionally for one term, on a limited basis, at the discretion of the program.

Provisional Admission

The English M.A. program may admit applicants provisionally, on a limited basis, at the discretion of the program.

Program Requirements

To earn the master's degree in English the candidate must:

- complete 36 hours of coursework:
  - All students must take ENG 630 Materials & Meth Research in their first fall semester.
  - Teaching Assistants must take ENG 560 Comp and Writing Center Theory in their first fall semester and ENG 640 Composition Pedagogy in their first spring semester.
  - Students are encouraged to select courses that best serve their academic purposes or career plans.
  - Students may take up to six graduate hours for credit outside the English Department as part of their coursework. In order to count toward credit for graduation, these courses must be relevant to the degree and be approved by the Department Chair and the Director of Graduate Programs.
- complete a capstone project from one of the following options:
  - Thesis (6 credit hours of ENG 681 Thesis)
  - Portfolio (ENG 682 Portfolio plus a 600-level course of the student's choosing)
  - Comprehensive Exams (ENG 683 Comprehensive Exams plus a 600-level course of the student's choosing)
- maintain a 3.0 Grade Point Average
- earn six credit hours in a language other than English. Requirement may be fulfilled by:
  - documenting previous undergraduate coursework;
  - taking undergraduate courses while enrolled in the M.A. program (however, undergraduate courses do not count toward the M.A. degree)
  - demonstrating language ability to the satisfaction of the English Department.

Plan of Study

Before registering for the 12th credit hour, students are required to file a Plan of Study with the Director of Graduate Studies and the Graduate Studies office. The Plan of Study is a student's blueprint for graduation.

Good Standing

In addition to the requirements in the Marshall University's standards for good standing, a student pursuing a M.A. in English will earn no more than two grades of *C* or lower in any graduate course.

Geography M.A., Accelerated Graduate Degree

Geography M.A., Accelerated Graduate Degree

Undergraduates accepted to an Accelerated Graduate Degree (AGD) program can begin taking graduate level classes while still in their undergraduate program. These graduate credits can be used for both the undergraduate and graduate level coursework and will help facilitate an easy and fast transition into a graduate program if a student is accepted. To be accepted into the AGD, please see your advisor to see if you qualify for one of these positions.

Undergraduates accepted into an AGD program can begin taking graduate coursework during their junior or senior year. Programs offering an AGD option may allow up to 12 hours of graduate level coursework to also count towards an undergraduate degree.

Graduate coursework/credit will appear only on the graduate transcript, and graduate course grades will be calculated towards the graduate GPA.

Eligibility Requirements for AGD Program

- Must have completed at least 60 hours toward the Bachelor's degree;
- Must have at least a 3.30 overall undergraduate GPA;
- Must have at least a 3.30 GPA in the major;
- Must meet the admission requirements of the chosen graduate degree program, apart from the receipt of a bachelor's degree. Students must earn a bachelor's degree to be fully admitted into the graduate degree program.

AGD programs may have admission requirements that differ from the admission requirements for the regular graduate degree. For example, some departments might waive the required admission test, such as the GRE or GMAT. Students should check with the chosen graduate degree program.

How to Apply

1. During the junior or senior year, eligible students should meet with their Undergraduate Advisor and the Director of Graduate Studies of their chosen graduate degree program to develop an AGD plan of study. Any changes to the AGD plan of study must be approved by the undergraduate advisor and director of graduate studies in writing to the dean of the college housing the graduate program.
2. The student's acceptance into the AGD program is subject to the approval of the plan of study by the dean of the college housing the graduate program.
3. Students accepted into the AGD program should apply for admission to the chosen graduate degree program for the first semester after the bachelor's degree is awarded. Admission applications should be submitted during the last semester of the senior year.

Students must maintain a minimum GPA of 3.0 for all graduate credit toward their graduate degree program.

Withdrawal from the AGD

A student may withdraw at any time from the AGD by informing in writing the undergraduate advisor, the director of graduate studies and the dean of the college housing the graduate program. The student's status will then revert to the standard undergraduate degree program. Any graduate hours earned must be approved for use in fulfillment of bachelor's degree requirements by the student's undergraduate dean.

From Undergraduate to Graduate Student

Beginning with the semester after the student has earned the bachelor's degree and has been accepted into a graduate degree program, the student is enrolled in the graduate program and is assessed tuition and fees at the graduate rate. All rules regarding graduate education will apply to the student once admitted into the graduate degree program.

Geography M.S., Accelerated Graduate Degree

Geography M.S., Accelerated Graduate Degree

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From Undergraduate to Graduate Student

Beginning with the semester after the student has earned the bachelor's degree and has been accepted into a graduate degree program, the student is enrolled in the graduate program and is assessed tuition and fees at the graduate rate. All rules regarding graduate education will apply to the student once admitted into the graduate degree program.

Geography, M.A.

Program Description - M.A. Geography

Geography is the systematic study of the spatial aspects of human activity, the natural world, and human-environment interaction. The discipline of geography occupies a unique position as a bridge between the social sciences (Human Geography), natural sciences (Physical Geography), and STEM fields (GIScience). From this interdisciplinary perspective, geography helps us understand and address numerous contemporary challenges ranging from economic development, urban planning, and ethnic conflict to climate change, environmental sustainability, and natural resource management. As a result, geography is an expanding discipline with diverse career opportunities across the environmental sciences, social sciences, and technological fields in both the public and private sectors.

The Geography Department prepares students to succeed as professionals in today's job market through an innovative curriculum focusing on building critical thinking, technical, and practical skills across a range of human geography, physical geography, and geospatial information science (GIScience) courses. The curriculum includes a mixture of classroom and lab instruction, hands-on projects, and professional internships experiences that actively engage students in the learning process and provide the skills necessary for lifelong learning. The department maintains state-of-the-art facilities, including technology-enhanced classrooms, a physical geography lab, and a GIScience computer lab, supporting students as they utilize the latest software and hardware. The department provides a supportive learning environment where students work closely with faculty and peers while enjoying numerous opportunities to participate in campus, state, and national professional activities.

Geography alumni have successfully applied their knowledge and practical skills in a variety of career paths in both the public and private sectors, including urban and regional planning, economic development, environment planning, natural resource and energy management, weather forecasting, emergency response and homeland security, GIS analysis, and education. Other alumni have continued studies at the doctoral level in geography, archaeology, and other fields.

Students wishing to earn a master's degree in geography have the option of selecting either a Master of Arts (M.A.) or Master of Science (M.S.) degree. The M.A. degree is for students interested in human geography or geography education, while the M.S. is suitable for students interested in GIScience and/or physical geography. Both the M.S. and M.A. degree options prepare the graduate for professional employment or advanced work at the doctoral level. In coordination with their advisor, students may choose to either: 1) complete a capstone course GEO 679 Portfolio and Career Profile focusing on Career Advancement, Reflection on the degree completion experience, and a Comprehensive Exam or 2) write a thesis. The majority of our majors pursue the capstone course GEO 679 Portfolio and Career Profile option. The thesis option is the best choice for students wishing to engage in geographical research projects or in preparation for entrance into a doctoral program. Thesis students must pass GEO 615 Geographic Thought and GEO 616 Geographical Research Methods with grades of A and then must get permission from a potential thesis advisor before enrolling in GEO 681 Thesis .

A graduate minor in Geography is available for those not majoring in Geography.

For more information, please see the departmental website at www.marshall.edu/geography (http://www.marshall.edu/geography/), e-mail geography@marshall.edu or call 304-696-4364.

Admission Requirements - M.A. Geography

Applicants should follow the admissions process described in this catalog or at the Graduate Admissions website at www.marshall.edu/admissions/graduate/ (https://www.marshall.edu/admissions/graduate/). In addition, applicants must:

- submit a curriculum vitae (CV) and/or resume with the graduate application;
- submit two letters of recommendation (either from employers or faculty members) with the graduate application.

Graduate Assistantships

Applications for department research or teaching assistantships are available from the department website at www.marshall.edu/geography (http://www.marshall.edu/geography/). For more information about graduate assistantships at Marshall University, please see https://www.marshall.edu/graduate/graduate-assistantship-overview/.

For more information about other financial support, please see www.marshall.edu (http://www.marshall.edu)/sfa (http://www.marshall.edu/sfa/).

Degree Requirements - M.A. Geography

Candidates for the master's degree must meet the general requirements for graduate admission and complete a minimum of 34 total credits.

Plan of Study

A *Plan of Study* approved by the student's advisor must be submitted for approval to the academic dean before the student registers for his or her 12th semester hour. The Plan of Study is a student's "blueprint" for completing graduation requirements.

Plan of Study - M.A. Geography

Code	Title	Credit Hours
Required Courses		
GEO 615	Geographic Thought	3
GEO 616	Geographical Research Methods	3
Select one from the following:		3-6
GEO 679	Portfolio and Career Profile	
GEO 681	Thesis (6 credits)	
Select one GEO GIScience course from the following:		3-4
GEO 523	Cartography & GIS	
GEO 526	Geographic Information Systems	
GEO 527	Principles of GIS II	
GEO 529	GIS Location Analytics	
GEO 530	Environmental Raster Analysis	
GEO 531	Remote Sensing & Photogram	
GEO 534	Flood Hazards and GIS	
GEO 554	Drones:Remote Sensing & GIS	
GEO 631	Applied GIS Projects	
GEO 634	GIS Databases & Programming	
GEO 690	Internship in Geography (using GIScience)	
Electives		**22-23**
GEO 502	Geography of Appalachia	
GEO 504	Geography of Europe	
GEO 505	Political Geography	
GEO 506	Population Geography	
GEO 508	Geog of South & Middle America	
GEO 510	Urban Geography	
GEO 522	Environmental Geography	
GEO 523	Cartography & GIS	
GEO 524	Transportation Geography	
GEO 525	Climatology	
GEO 526	Geographic Information Systems	
GEO 527	Principles of GIS II	
GEO 529	GIS Location Analytics	
GEO 530	Environmental Raster Analysis	
GEO 531	Remote Sensing & Photogram	
GEO 534	Flood Hazards and GIS	
GEO 550	Extreme Weather	
GEO 554	Drones:Remote Sensing & GIS	
GEO 560		
GEO 607	Economic Geography	
GEO 617	Seminars in Geography	
GEO 618	Seminars in Geography	
GEO 619	Seminars in Geography	
GEO 620	Problems in Environ Geog	
GEO 623	Regions of North America	
GEO 631	Applied GIS Projects	
GEO 634	GIS Databases & Programming	
GEO 690	Internship in Geography	
Total Credit Hours		**34-39**

Some courses may not be listed here, but still count for credit in the program; see an advisor. Of the credit hours required for the degree, at least half must be at the 600 level.

Geography, M.S.

Program Description - M.S. in Geography

Geography is the systematic study of the spatial aspects of human activity, the natural world, and human-environment interaction. The discipline of geography occupies a unique position as a bridge between the social sciences (Human Geography), natural sciences (Physical Geography), and STEM fields (GIScience). From this interdisciplinary perspective, geography helps us understand and address numerous contemporary challenges ranging from economic development, urban planning, and ethnic conflict to climate change, environmental sustainability, and natural resource management. As a result, geography is an expanding discipline with diverse career opportunities across the environmental sciences, social sciences, and technological fields in both the public and private sectors.

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Students wishing to earn a master's degree in geography have the option of selecting either a Master of Arts (M.A.) or Master of Science (M.S.) degree. The M.A. degree is for students interested in human geography or geography education, while the M.S. is suitable for students interested in GIScience and/or physical geography. Both the M.S. and M.A. degree options prepare the graduate for professional employment or advanced work at the doctoral level. In coordination with their advisor, students may choose to either: 1) complete a capstone course GEO679 focusing on Career Advancement, Reflection on the degree completion experience, and a Comprehensive Exam or 2) write a thesis. The majority of our majors pursue the capstone course GEO679 option. The thesis option is the best choice for students wishing to engage in geographical research projects or in preparation for entrance into a doctoral program. Thesis students must pass GEO615 and GEO616 with grades of A and then must get

permission from a potential thesis advisor before enrolling in GEO681 Thesis.

A graduate minor in Geography is available for those not majoring in Geography.

For more information, please see the departmental website at www.marshall.edu/geography (http://www.marshall.edu/geography/), e-mail geography@marshall.edu or call 304-696-4364.

Admission Requirements - M.S. In Geography

Applicants should follow the admissions process described in this catalog or at the Graduate Admissions website at www.marshall.edu/admissions/graduate/ (https://www.marshall.edu/admissions/graduate/). In addition, applicants must:

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- submit two letters of recommendation (either from employers or faculty members) with the graduate application.

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Applications for department research or teaching assistantships are available from the department website at www.marshall.edu/geography (http://www.marshall.edu/geography/). For more information about graduate assistantships at Marshall University, please see https://www.marshall.edu/graduate/graduate-assistantship-overview/.

For more information about other financial support, please see www.marshall.edu (http://www.marshall.edu)/sfa (http://www.marshall.edu/sfa/).

Program Requirements - M.S. In Geography

Candidates for the master's degree must meet the general requirements for graduate admission and complete a minimum of 34 total credits.

Plan of Study

A *Plan of Study* approved by the student's advisor must be submitted for approval to the academic dean before the student registers for his or her 12th semester hour. The Plan of Study is a student's "blueprint" for completing graduation requirements.

Plan Of Study - M.S. In Geography

Code	Title	Credit Hours
Required Courses		
GEO 540	Spatial Statistics using GIS [1]	4
GEO 615	Geographic Thought	3
GEO 616	Geographical Research Methods	3
Select one from the following:		3-6
GEO 679	Portfolio and Career Profile	
GEO 681	Thesis (6 credits)	
Select one GEO GIScience course from the following:		3-4
GEO 523	Cartography & GIS	
GEO 526	Geographic Information Systems	
GEO 527	Principles of GIS II	
GEO 529	GIS Location Analytics	
GEO 530	Environmental Raster Analysis	
GEO 531	Remote Sensing & Photogram	
GEO 534	Flood Hazards and GIS	
GEO 554	Drones:Remote Sensing & GIS	
GEO 631	Applied GIS Projects	
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GEO 690	Internship in Geography (using GIScience)	
Electives		**18-19**
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GEO 504	Geography of Europe	
GEO 505	Political Geography	
GEO 506	Population Geography	
GEO 508	Geog of South & Middle America	
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GEO 523	Cartography & GIS	
GEO 524	Transportation Geography	
GEO 525	Climatology	
GEO 526	Geographic Information Systems	
GEO 527	Principles of GIS II	
GEO 529	GIS Location Analytics	
GEO 530	Environmental Raster Analysis	
GEO 531	Remote Sensing & Photogram	
GEO 534	Flood Hazards and GIS	
GEO 550	Extreme Weather	
GEO 554	Drones:Remote Sensing & GIS	
GEO 560		
GEO 607	Economic Geography	
GEO 617	Seminars in Geography	
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GEO 623	Regions of North America	
GEO 631	Applied GIS Projects	
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GEO 690	Internship in Geography	
Total Credit Hours		**34-39**

[1] Requirement waived if GEO 440 Spatial Statistics and GIS passed with a grade of C or better at the undergraduate level.

Some courses may not be listed here, but still count for credit in the program; see an advisor. Of the credit hours required for the degree, at least half must be at the 600 level.

Geography, Minor

Students who minor in Geography should choose a minimum of six hours of appropriate courses from one of the specialties below in

consultation with their major faculty advisor and a Geography faculty advisor.

Regional Geography

Code	Title	Credit Hours
GEO 623	Regions of North America (Required Course)	3
Select from the following (see other categories)		3
GEO 502	Geography of Appalachia	
GEO 504	Geography of Europe	
GEO 508	Geog of South & Middle America	
GEO 617	Seminars in Geography (regional geography topic)	
GEO 618	Seminars in Geography (regional geography topic)	
GEO 619	Seminars in Geography (regional geography topic)	

Physical Geography

Code	Title	Credit Hours
Select from the following:		
GEO 522	Environmental Geography	
GEO 525	Climatology	
GEO 530	Environmental Raster Analysis	
GEO 531	Remote Sensing & Photogram	
GEO 550	Extreme Weather	
GEO 660	Weather Analysis	
GEO 617	Seminars in Geography (physical geography topic)	
GEO 618	Seminars in Geography (physical geography topic)	
GEO 619	Seminars in Geography (physical geography topic)	
GEO 620	Problems in Environ Geog	

Human Geography

Code	Title	Credit Hours
Select from the following:		
GEO 505	Political Geography	
GEO 506	Population Geography	
GEO 510	Urban Geography	
GEO 522	Environmental Geography	
GEO 607	Economic Geography	
GEO 617	Seminars in Geography (human geography topic)	
GEO 618	Seminars in Geography (human geography topic)	
GEO 619	Seminars in Geography (human geography topic)	
GEO 620	Problems in Environ Geog	

Geographic Information Systems/ Remote Sensing

Code	Title	Credit Hours
Select from the following:		
GEO 523	Cartography & GIS	
GEO 526	Geographic Information Systems	
GEO 527	Principles of GIS II	
GEO 529	GIS Location Analytics	
GEO 530	Environmental Raster Analysis	
GEO 531	Remote Sensing & Photogram	
GEO 534	Flood Hazards and GIS	
GEO 540	Spatial Statistics using GIS	
GEO 554	Drones:Remote Sensing & GIS	
GEO 617	Seminars in Geography (GIS/RS topic)	
GEO 618	Seminars in Geography (GIS/RS topic)	
GEO 619	Seminars in Geography (GIS/RS topic)	
GEO 631	Applied GIS Projects	
GEO 634	GIS Databases & Programming	
GEO 690	Internship in Geography (must be GIScience approved in advance)	

Geospatial Information Science, Graduate Certificate

Admission Requirements

Students may pursue the graduate certificate while enrolled in the any master's program **or** as a certificate-only student.

- Students already enrolled in the master's degree program should submit to the academic dean a Secondary Program Request form at https://www.marshall.edu/graduate/current-students/forms-and-information/.
- Applicants interested in the certificate-only program should apply for admission to Marshall University as a Certificate/Professional Development student and select on the application form the Certificate in Geospatial Information Science.

Program Requirements

A graduate certificate in Geospatial Information Science consists of a minimum of 16 graduate hours in courses designated as GIScience Courses, including regularly offered courses as well as special topics courses. Students must have a *B* (3.0) average in their GIScience courses and no grade below a *C* (2.0) in their GIScience courses to earn the certificate. The program is designed to:

- offer Geospatial Information Science study in a variety of disciplines with a variety of applications;
- teach students Geospatial Information Science techniques;
- teach students to apply Geospatial Information Science to solve scientific research problems;
- encourage students to gain experience in the Geospatial Information Science field by means of internships;
- integrate Geospatial Information Science applications with computer science concepts;

- prepare students for Geospatial Information Science employment. or additional work at the doctoral level.

Students may earn this certificate entirely online or in the traditional classroom.

Course Requirements

Code	Title	Credit Hours
GIScience Required Course		
GEO 526	Geographic Information Systems [1]	4
Select one Remote Sensing course		4
GEO 531	Remote Sensing & Photogram	
BSC/PS 510	Remote Sensing/GIS Appl	
BSC/PS 511	Dgtl Image Proc/GIS Model	
Special Topics/Independent Study as approved by the GIScience certificate director.		
GIScience Electives		**8**
Select at least two of the following:		
BSC/PS 510	Remote Sensing/GIS Appl	
BSC/PS 511	Dgtl Image Proc/GIS Model	
BSC 648	Landscape Ecology	
ES 626	Remote Sensing & Map Use	
GEO 523	Cartography & GIS	
GEO 527	Principles of GIS II	
GEO 529	GIS Location Analytics	
GEO 530	Environmental Raster Analysis	
GEO 531	Remote Sensing & Photogram	
GEO 532		
GEO 533		
GEO 534	Flood Hazards and GIS	
GEO 540	Spatial Statistics using GIS	
GEO 554	Drones:Remote Sensing & GIS	
GEO 631	Applied GIS Projects	
GEO 690	Internship in Geography (must be GIScience approved by advisor in advance)	
IS 645		
PS 670	Advanced Practicum (must be GIScience approved by advisor in advance)	
Special Topics courses as approved by program director in advance		
Independent Studies courses as approved by student's advisor in advance		
Total Credit Hours		**16**

[1] Requirement waived if GEO 426 Geographic Information Systems or its equivalent taken as an undergraduate

Oversight of the Geospatial Information Science Certificate Program

The interdisciplinary Geospatial Information Science Curriculum Committee oversees the program and approves changes to the program. Additional Geospatial Information Science faculty members and administrative stakeholders may be added to the Committee by consensus of the members or at the request of their Dean. As members leave university service, they may be replaced at the discretion of their department. Current members and their colleges are:

- Anne Axel, COS
- David Cartwright, COS
- Hilton Cordoba, COLA
- Yi Duan, LCOB
- Tom Jones, COS
- Min Kook Kim, COS
- Jamie Leonard, COLA, Director of Undergraduate and Graduate Certificate Programs and Undergraduate Minor
- Ron Martino, COS
- Brian Morgan, COS
- Andrew Nichols, CECS
- Scott Simonton, CECS
- Jayme Waldron, COS
- Anita Walz, COLA
- Jamie Wolfe, CEGAS

Administrative Home

James Leonard, Ph.D., Geography Department, College of Liberal Arts, is the director of the program and can provide students with information, course substitutions, advising, forms, and other assistance.

History, M.A.

Program Description

Established in 1938, the history graduate program is one of the oldest at Marshall University. Since the program began, more than 300 Master of Arts degrees in history have been awarded. Although many students have concentrated on U. S. and European history, the department also offers courses in Asian, Middle Eastern, Latin American, African American, and Women's history. In all fields of study students receive personal attention and direction that is often not available in larger graduate programs. It is recommended that students earn credit hours in a wide distribution of historical areas and periods from a diversity of instructors. Students may pursue either the thesis option or non-thesis option, but are encouraged to write a Master's thesis.

Admission Requirements

Students who have not completed an undergraduate major in history must have at least 15 hours of undergraduate courses in history, including 12 hours in the World and American history surveys. Students with deficiencies may be accepted provisionally and may be asked to take undergraduate courses suggested by the Director of Graduate Studies before full admission to the program.

Deadlines

Applicants should follow the admissions process described in the Graduate Catalog, or at the Graduate Admissions website at www.marshall.edu/graduate/admissions/how-to-apply-for-admission (http://www.marshall.edu/graduate/admissions/how-to-apply-for-admission/).

All materials should be submitted to the Graduate Admissions office.

Applicants must also submit to the Graduate Admissions office:

- two letters of recommendation;
- a writing sample drawn from work in a college course;
- a personal statement identifying the applicant's reasons for pursuing an M.A. and how the degree will contribute to the applicant's broader plans (1-2 pages);

Program Requirements

Plan of Study

Students must submit to the department's Director of Graduate Studies a Plan of Study in the semester prior to registering for the 12th semester hour. The Plan of Study is a student's blueprint for graduation.

Students must earn a quality point average of at least 3.0 (*B*) on all graduate work applicable to the degree. A student who receives a second grade of *C* or below at any time while pursuing the Master of Arts degree in History will be withdrawn from the program. In addition, M.A. students in History must earn at least a 3.0 (*B*) grade point average in all History courses as a requirement for graduation.

Students must complete a minimum of 36 semester hours of graduate coursework. At least fifty percent of these hours must be completed at the 600 level. All students are required to complete HST 600 Methodology, Seminar in Historical Methods.

Thesis Option

Students who choose the thesis option must complete HST 681 Thesis for three to six credit hours.

Good Standing

In addition to the requirements listed in the Marshall University's standards for good standing, a student pursuing a M.A. in History will:

1. Maintain a GPA of at least 3.0 (*B*) on all graduate work applicable to the degree, and
2. earn no more than one grade of *C* or below while pursuing the degree.

History, Minor

A minor in History is earned by taking at least 6 credit hours in courses at the 500- or 600- level in History as approved by the student's advisor and the Graduate Program Director in the Department of History.

Human Geography, Graduate Certificate

Program Description

The graduate certificate in Human Geography is geared towards educators who are: 1) currently teaching Advanced Placement Human Geography and would like to develop greater depth of knowledge to command the different topics covered in the course, and learn best practices from other educators who are already teaching the class; or 2) looking to teach AP human geography for the first time and would like to acquire the content matter knowledge and training to appropriately teach the course; or 3) need to earn continuing education credits necessary to renew or reinstate their license in the teaching profession.

Marshall provides educators with the expertise in the discipline that can't be garnered from a webinar or summer institute. You learn human geography from subject matter experts with doctoral degrees in geography in a structured, asynchronous online environment that allows you to keep work and family commitments while advancing your career and education. Advanced Placement Human Geography is among the top ten AP subject exams, with 200,000 students taking the exam every year, and thousands of appropriately educated teachers are needed to meet this demand. Credits earned as part of the graduate certificate can be applied towards the 34 credits needed to earn the M.A. in Geography.

Plan of Study

Code	Title	Credit Hours
Required Course		**3**
GEO 518	Geography for Educators (should be taken toward the end of the program if possible)	
Other Coursework		**15**
Students choose 9-12 credits from:		
GEO 505	Political Geography	
GEO 506	Population Geography	
GEO 510	Urban Geography	
GEO 607	Economic Geography	
Students choose 3-6 credits from:		
GEO 502	Geography of Appalachia	
GEO 504	Geography of Europe	
GEO 508	Geog of South & Middle America	
GEO 523	Cartography & GIS	
GEO 623	Regions of North America	
Total Credit Hours		**18**

Humanities, M.A.

Program Description

The Master of Arts in Humanities is an online synchronously delivered, all-virtual program. Most courses are offered in a seminar format: discussion-based graduate-level courses focused on reading, open and regular dialogue, collaborative and interactive interpretation, research and writing. The curriculum stresses an interdisciplinary approach, embracing a variety of fields, while allowing conventional disciplinary studies as an integral part of the program. Students consult with the Program Director to determine individual plans of study. After completing a prescribed core of humanities courses, the student elects one of four areas of concentration (Arts and Society; Cultural Studies; Historical Studies; Literary Studies). Although the student's plan may encompass courses from more than one area of concentration it will have strong intellectual coherence. The program enhances the student's ability to deal critically and flexibly with intellectual, social, political, historical, literary, or artistic issues with a broad humanistic perspective. The Graduate Humanities Program recommends that students not concerned with pursuing the degree (such as teachers

using classes for certification and those who want to take courses for their own continuing education) to enroll as non-degree students.

Admission Requirements

Applicants are strongly encouraged to review the program website https://www.marshall.edu/graduatehumanities/ and contact the Graduate Humanities Program Director before officially applying to the program.

Applicants should follow the admissions process described in this catalog or at the Graduate Admissions website at www.marshall.edu/graduate/admissions/how-to-apply-for-admission (http://www.marshall.edu/graduate/admissions/how-to-apply-for-admission/). GRE scores are not required.

Specific to the Graduate Humanities program, applicants must:

- have an undergraduate major in the humanities broadly defined;
- have an undergraduate grade point average of 3.0 on a scale of 4.0 from the bachelor's degree transcript; and,
- submit an essay (sent to the Graduate Humanities Program Director). This essay should elaborate the applicant's degree goals and reasons for selecting the M.A. in Humanities. It should be specific with examples and include descriptions of key texts important to the applicant.

In addition, a virtual interview is required after an application has been received and before a final decision is made. The Program Director will schedule the interview. Applicants should be prepared to discuss their essay, degree goals, and reasons for selecting the M.A. in Humanities.

Applicants who do not meet all of the above admissions requirements may be admitted provisionally. A provisionally admitted student must earn a grade of *B* or above in their first twelve hours of coursework in the humanities.

Graduation Requirements

Before registration for the 12th graduate credit hour, all graduate students must complete an official Plan of Study form to be approved by the Program Director and submitted to the Dean's office.

Within a concentration, a student may select courses to develop personal interests. Given the interdisciplinary approach of the program, all 15 hours need not necessarily be the same course designator. Students may embed graduate certificates (such as the Graduate Certificate in Appalachian Studies) within the requirements for the concentration and electives.

No more than twelve hours may be taken at the 500 level. If applicable, students may request an independent study course on a topic unavailable through regular courses. In such a case, the student will work under the direct supervision of a faculty member. The Program Director must approve the independent study.

Degree students are expected to maintain a 3.0 Grade Point Average in their courses.

For further information on the degree program, students should consult the Graduate Humanities web site https://www.marshall.edu/graduatehumanities/ (https://www.marshall.edu/graduatehumanities/). Because degree students in the Graduate Humanities program have individualized plans of study, they are strongly encouraged to meet regularly with the Program Director.

Note: Some courses related to the interdisciplinary approach of the Graduate Humanities program may be appropriate for the plan of study in the M.A. in Humanities.

Program Requirements

The M.A. in Humanities requires 36 hours to complete the degree. Students have the options of a thesis or final project. Students electing the thesis must complete both HUMN 680 Independent Research Symposium and HUMN 681 Independent Research Symposium. Students electing the project option must complete HUMN 680 Independent Research Symposium only.

With both options, students must complete a final comprehensive portfolio assessment, included with the thesis or final project. All individual plans of study are organized according to the following general structure:

Code	Title	Credit Hours
Humanities Core		
HUMN 600	Intro to Study in Humanities	3
HUMN 604	Expository Wrtng for Research	3
Select one of the following:		3
HUMN 601	Literary Theory & Criticism	
HUMN 602	Historical Studies	
HUMN 603	History & Theory of the Arts	
HUMN 605	Wstrn Trdtns/Contemp Cultures	
Concentration		
Select a minimum of 15 hours from the four following areas to develop a concentration in cultural, historical, literary studies or arts and society (given the interdisciplinary approach of the program, all 15 hours need not necessarily be the same course designator): A&S, CULS, HIST, LITS		15
Program Electives		
Select 6-9 hours		6-9
Independent Research Project or Thesis		
Select one of the following:		3-6
Independent Research Project (3 hours)		
Thesis (6 hours)		
Total Credit Hours		**36**

Latin, Graduate Certificate

Program Description

The Graduate Certificate in Latin provides a convenient way for individuals to add a consistent study of the Latin language and literature to their undergraduate and graduate credentials.

Admission Requirements

Admission Requirements

Prospective certificate-only students should apply for admission to Marshall University as a Professional Development student and select on the application form the Certificate in Latin.

Program Requirements

The program requires 15 hours, 12 of which consist of 500-level Latin courses, and 3 of which consist of CL 536 Roman Civilization.

Meteorology, Graduate Certificate

Program Description

Meteorology is a science that investigates atmospheric phenomena, especially the weather and weather conditions. The meteorology graduate certificate is designed for students who do not necessarily want to broadcast or forecast, but rather learn meteorological skills to complement other skill sets, such as GIS, aviation, environmental science and many others.

Course Requirements

Code	Title	Credit Hours
Required Courses		
GEO 550	Extreme Weather	4
GEO 560		4
Choose at least a total of 8 credit hours from the following courses:		**8**
GEO 525	Climatology	
GEO 526	Geographic Information Systems	
GEO 531	Remote Sensing & Photogram	
GEO 580	Special Topics	
GEO 581	Special Topics	
GEO 582	Special Topics	
GEO 583	Special Topics	
GEO 617	Seminars in Geography [1]	
GEO 618	Seminars in Geography [1]	
GEO 619	Seminars in Geography [1]	
Total Credit Hours		**16**

[1] Must be weather related.

Nonprofit Management, Graduate Certificate

Program Description

The Graduate Certificate in Nonprofit Management is designed to enhance job skills, earn recognition, increase marketability, and meet professional development requirements. This is an interdisciplinary program housed in the Political Science department. The coursework focuses on the practical aspects of managing nonprofits, as well as the theoretical underpinnings of all organizations. With advisor approval, certificate program course credit may be applied towards a graduate degree in either Public Administration or Business Administration.

Admission Requirements

Students already enrolled in the Master of Public Administration or the Master of Business Administration should submit a Secondary Program Request form (https://www.marshall.edu/graduate/current-students/forms-and-information/) to Graduate Admissions. A prospective certificate-only student should apply for admission to Marshall University as a Professional Development student and select the application form for the Certificate in Nonprofit Management.

Program Requirements

The program requires 18 hours. All classes for this certificate are online.

Course Requirements

Code	Title	Credit Hours
PSC 532		3
PSC 533		3
PSC 553		3
MGT 672	Organizational Behavior	3
LS 626	Fundraising Management	3
Advisor Approved Course		3
Total Credit Hours		**18**

Philosophy, Minor

The minor in philosophy consists of any two 500-level courses in Philosophy.

Psychology (Clinical), Post-Master's Certificate

Program Description

The Clinical Psychology post-master's certificate consists of 26 credit hours of clinical coursework and supervised clinical experience to prepare graduates for master's degree level clinical roles within professional psychology. It is designed specifically for individuals who already hold a master's or doctoral degree in a non-clinical area of psychology and whose courses meeting the required core courses were completed less than seven (7) years prior to admission Similarly any student who is fully admitted to the General Psychology M.A. program seeking clinical training who will graduate prior to starting the clinical training program must apply for admission to the Clinical Psychology Post-Master's Certificate. For those who will not graduate with a General Psychology MA degree prior to starting the clinical training program should apply to the Area of Emphasis in Clinical Psychology.

More information and application materials are available from advisors and from the Clinical area coordinator.

Admission Requirements

Admissions Priority Deadlines

Applications for admission to the Area of Emphasis in Clinical Psychology master's program are due by January 31st and will be given priority over those completed after this date. These will be acted on before April 15th of each year. Slots in the Clinical Psychology Area of Emphasis program are limited. The most qualified applicants will be accepted until the slots have been filled. Grade Point Averages (undergraduate and graduate), GRE scores, and faculty recommendations will be considered.

Program Requirements

The courses required for the Clinical Psychology certificate are the same as those for the Area of Emphasis in Clinical Psychology. The difference is that those admitted to the Post Master's Certificate will have met the required core areas for the degree within the past seven (7) years and as part of a prior degree (e.g., general psychology master's degree or non-clinical doctoral degree). Those marked with [1] are restricted to students in the clinical certificate program. It is important to note that students in the clinical area of emphasis must complete the entire track to receive any letters of support or other indication from individual faculty members, the department or the university that the student has achieved appropriate competence in the skills or knowledge bases associated with master's level clinical training, and such students must complete the entire sequence for the Clinical Psychology Area of Emphasis to appear on their transcripts.

Two-C Rule and Student Behavior

The following two statements are applicable to all psychology graduate programs:

1. *2-C Rule:* Psychology students cannot be admitted to, or continue in, a graduate program in psychology if they earn more than one grade of *"C"* or lower in any graduate course in psychology or any course included in the plan of study. Such students will not be permitted to continue taking courses or to work on a doctoral research project. Please see the complete description of the 2-C Rule on the second page of the M.A. in Psychology section.
2. *Ethics and Student Behavior:* Students in all programs are expected to behave in accordance with the APA Ethical Principles and Code of Conduct. Consequences for violations may include suspension or dismissal from the student's program of study. When students in the clinical area of emphasis (M.A. program) or the Psy.D. program exhibit behavior indicating inability or limited capacity to successfully perform clinical roles and functions, they may be suspended or dismissed from their program of study.

1.

Plan of Study

Code	Title	Credit Hours
Required Courses		
PSY 608	Differ Diagnosis & Treat Plan [1]	3
PSY 633	Individual Psychotherapy [1]	3
PSY 610	Assessment of Adults [1]	3
PSY 611	Assessment of Children [1]	3
PSY 620	Assessment Adults Practicum [1]	3
PSY 621	Assessment Children Practicum [1]	3
PSY 634	Group Therapy [1]	3
PSY 731	Psychotherapy I [1]	3
PSY 732	Psychotherapy II [1]	3
PSY 670	Clinical Practicum [1]	3
PSY 671	Clinical Practicum	3
PSY 680	Clinical Internship [1]	3
Electives		
PSY 619	Psychotherapy with Children [1]	
PSY 630	Adult Diagnosis & Therapy [1]	
PSY 635	Child/Fam Diagn Therapy [1]	
Total Credit Hours		**36**

[1] Restricted to students in the clinical certificate program.

Psychology (Clinical), Psy.D.

Clinical Psychology (Psy.D.) Program Mission

The primary mission of the Clinical Psychology (Psy.D.) Program at Marshall University is to train doctoral-level psychologists who are highly-skilled generalists that possess the knowledge, skills, and attitudes necessary to meet the unique behavioral health needs of those who identify with rural, underserved, and populations who have been marginalized. Because of the program's location in the heart of Appalachia, there is a special emphasis on understanding and meeting the needs of vulnerable populations in the Appalachian region, especially those communities in WV. In service to this specific aspect of our mission, 50% of incoming class slots are reserved for those residing in West Virginia and the surrounding central Appalachian region.

The Psy.D. program recognizes the current and past experiences of trauma, prejudice, discrimination, and oppression that have impacted rural, underserved, and communities that have been marginalized and takes responsibility for promoting the values of social justice and advocacy as cornerstones to effective clinical practice and service. The Psy.D. program is dedicated to the mission of diversifying the workforce serving those with behavioral health needs. As such, the faculty encourage and welcome students from backgrounds that have been disadvantaged and marginalized and those from groups that are underrepresented in the field of professional health service psychology. We have structured policies and committed resources to support the successful matriculation and training of students from all backgrounds, orientations, and identities and engage in active and continuous self-study to improve the inclusive, educational environment.

Training within the program fosters an appreciation for the importance of critical inquiry at all levels of clinical practice and fosters the practice. Therefore, the program will foster the value and practice of continued professional development through engagement in life-long learning.

Model and Goals

The primary objective of this program is to prepare doctoral-level professional psychologists to develop, provide, supervise and evaluate high quality mental health services for citizens of rural and other under-served communities. Through coursework, extensive field training and research experience, our goal is to prepare highly skilled generalists in professional psychology who are sensitive to the psychological and health-related issues confronting this area and are prepared to serve the communities in this region. The program will lead to the Doctor of Psychology (Psy.D.) degree; this degree is recognized nationwide as reflecting a program with a primarily applied, professional focus. Graduates typically work in applied, service-oriented positions where they work directly with clients, as well as supervise and train other professionals. All prospective students should be aware that successful progress through the program will require a major commitment, including enrollment for coursework

during each summer of their time in the program; see also the description of Residency Requirements on the Psy.D. Admissions page.

Psy.D. Program Model

The philosophy of the program follows a practitioner-scholar model of education and training; consequently, graduates of the program are trained as practitioners of clinical psychology as an empirically informed field. Education and training within the program emphasize the importance of critical inquiry at all levels of clinical practice, including treatment planning for individual clients, assessment of program outcomes, and the design and execution of rigorous research. The program is dedicated to educating students for professional practice careers; therefore, the Psy.D. degree is offered. The program faculty has set forth several pertinent goals and objectives to be obtained by students during their time in the program. These goals and objectives are founded on the core competencies of clinical education and training stated by the American Psychological Association Commission on Accreditation (CoA).

The program exposes students to the following primary clinical orientations: integrative behavioral, cognitive behavioral, and psychodynamic. In the context of this exposure, we encourage each student to develop an orientation that is best suited to his, her, or their style and situation. We endeavor to support students in their development, whether they prefer to remain eclectic or choose to invest in a particular theoretical orientation. The fact that the faculty represents a variety of orientations fits well with this model. Although the perspectives of clinical faculty vary, they share a common mission to provide education and training that is solidly grounded empirically. We also emphasize that multiple systemic and individual factors must be considered in developing a cooperative relationship between client and therapist that will ultimately lead to more positive life experiences for the client. There is a sharp focus on the impacts of community and culture from a biopsychosocial model of influence on human development. As such, the generalist orientation of the program serves as a model to students that the field of clinical psychology is as diverse as the human population it serves.

Program Goals and Objectives

Profession-Wide Competencies

1. The primary goal of the program is to provide high quality graduate education and training in clinical psychology with an emphasis on the role of empirical knowledge as it pertains to clinical practice. As such, students will develop the specific competencies that are the foundation of the education and training model.

Objective 1.1: Relationship/Communication/Interpersonal competence: Students are expected to develop the ability to form and maintain productive partnerships with a wide range of individuals, including colleagues, communities, organizations, supervisors, supervisees, faculty, and those receiving professional services. Students should be able to produce and comprehend oral, nonverbal, and written communications that are informative and well-integrated. They should be able to demonstrate a thorough grasp of professional language and concepts. They should exhibit effective interpersonal skills and the ability to manage conflict and difficult communication well.

Objective 1.2: Assessment competence: Students are expected to develop competency in clinical assessment as evidenced by understanding empirical literature and gain knowledge of the science of measurement, basic psychometric theory, and interpretation skills. In addition, students should be able to demonstrate the use of sound assessment methodologies including collecting relevant data using multiple sources and methods based on goal(s) and referral question(s). Students will also learn and address how relevant diversity characteristics of the service recipient should also be taken into account. Students will be able to interpret assessment results based on current research and professional standards and guidelines. This will inform case conceptualization, classification, and recommendations. Students will learn to guard against decision-making biases and distinguish the aspects of the assessment that are subjective versus objective. This competence should allow the student to describe their patient as a fully functioning person, to plan a course of intervention, and to assess intervention outcomes. Students will also demonstrate the ability to communicate orally and in written documents the findings and implications of the assessment in an accurate and effective manner that is sensitive and appropriate to a range of audiences.

Objective 1.3: Intervention competence: Students are expected to demonstrate their ability to maintain effective relationships with recipients of psychological services. Students will demonstrate the ability to develop evidence-based treatment plans that align with service delivery goals. Interventions are expected to be informed by current scientific literature, assessment findings, diversity characteristics, and contextual variables. Also, students will demonstrate the ability to modify evidenced-based treatments when appropriate, based on continuous evaluation of intervention effectiveness.

Objective 1.4: Research and evaluation competence: Students must demonstrate the substantially independent ability to conceptualize an appropriate, logical research question, frame it in terms of an operational definition, and develop a sound method for addressing the question to formulate research or other scholarly activities (e.g. critical literature reviews, dissertation, efficacy studies, clinical case studies, theoretical papers, program evaluation projects, program development projects, or doctoral research projects). This ability should result in research or scholarly activity that is of sufficient quality and rigor to have the potential to contribute to the scientific, psychological, or professional knowledge base. Students must be able to execute the plan and analyze the quantitative and/or qualitative data in a rigorous and systematic manner and be able to conduct research or other scholarly activities. In addition, students should be able to critically evaluate and disseminate research or other scholarly activity via professional publication and presentation at the local, regional, or national level.

Objective 1.5: Consultation, Interprofessional/Interdisciplinary, and Education competence: Students are expected to demonstrate competence with respect to Interdisciplinary/Interprofessional Consultation and Treatment. They will articulate the roles of a psychologist on an interdisciplinary care team in multiple settings, with specific emphasis on rural primary care settings. This includes distinguishing consultation from direct intervention. They will demonstrate an understanding of primary, secondary, and tertiary models of prevention/intervention as part of an interprofessional team. Students will demonstrate an understanding of the unique roles that other professionals play in these settings with respect to both behavioral and physical health care practices. Students will express an understanding of different service delivery models (e.g., co-located, integrated, etc). and how roles differ in each model and how these models may function differently with respect to different populations (e.g., rural/urban; income-limited/unstably housed, geriatric, psychiatric). Finally, students will articulate an understanding

of the challenges and solutions to integrating multiple legal and ethical guidelines across disciplines so all professional concerns are addressed for the good of the patient.

Objective 1.6: Management and Supervision competence: Students will become knowledgeable in the areas of organization and supervision of psychological services, including supervision models and practices. Students will demonstrate this knowledge in their ability to provide formal and informal supervision to less experienced students.

Objective 1.7: Legal and Ethical competence: Students are expected conduct themselves in an ethical manner in all professional activities. To do so, they will have knowledge of and act in accordance with: 1) the current version of the APA Code of Ethics; 2) relevant laws, regulations, rules, and policies governing health service psychology at all levels (organizational, local, state, regional, and federal); and 3) relevant professional standardized and guidelines. Students should be able to recognize ethical dilemmas as they arise and apply ethical decision-making processes in order to resolve the dilemmas.

Objective 1.8: Individual and Cultural Diversity competence: Students will understand the significant impact cultural differences have on clinical practice and be able to articulate those impacts in reference to specific clinical cases. This includes an understanding of how the student's own personal/cultural history, attitudes, and biases may affect how they understand and interact with people different from themselves. Students will be able to identify cultural differences in an academic sense through knowledge of the current theoretical and empirical knowledge base as it relates to addressing diversity. This includes integrating awareness and knowledge of individual and cultural differences in the conduct of professional roles and activities (e.g., research, services, and other professional activities). Students should also be able to demonstrate this knowledge base by articulating and applying an approach to working effectively with diverse individuals and groups. This includes engaging in program planning and service delivery that conveys that the differences are appreciated. Students should also be able to apply a framework for working effectively with areas of individual and cultural diversity not previously encountered over the course of their careers which includes the ability to work effectively with individuals whose group membership, demographic characteristics, or worldviews create conflict with their own.

Objective 1.9: Professional Values, Attitudes, and Behaviors competence: Through their behavior, students will reflect the values and attitudes of the field of psychology. This includes integrity, honestly, deportment, professional identity, accountability, punctuality, reliability, lifelong learning, and concern for the welfare and safety of others. Their development of a professional identity will begin to emerge and they will use resources, such as supervision and literature, to continue their professional development. They will engage in self-reflection regarding their personal and professional functioning, including activities to maintain and improve their performance, well-being, and effectiveness. As they progress through the program, students will demonstrate a greater degree of independence in increasingly complex professional situations. Students will conduct themselves in a professional manner, including attire, across different settings. They will also actively seek and demonstrate openness and responsiveness to feedback and supervision. Students will recognize and work to resolve situations that challenge the adherence to professional values and attitudes.

Objective 1.10: Advocacy competence: The definition of professional advocacy is speaking or acting on behalf of an individual or group to uphold their rights or explain their point of view. In other words, it involves supporting a collective, impactful voice for those who are lacking in power in the larger structure. Competence in advocacy involves the development of skills to advocate at the individual, group, community, national and international level and is often in service to social justice and improving public policy. Because the mission of the Psy.D. program rests heavily on advocacy, all students will be required to demonstrate the knowledge, skills and attitudes that reflect competence in the practice of advocacy and the principles of social justice. Students will demonstrate through words and actions their understanding of the centrality of advocacy and the role it plays in individual clinical practice as well as its importance in the broader field of psychological science. They will demonstrate their currency of knowledge with areas of social justice and advocacy practice that are related to their professional goals and intentions. Students will also demonstrate an understanding of the role played by basic, applied and social action research in promoting social justice through advocacy. Students will actively engage in all levels of advocacy during their time in the program and will be able to effectively articulate their role and the process of engagement as well as the outcome of each activity. Students will be expected to understand and explain their use of models of engagement (e.g., individual, systemic, family, legal) for advocacy in their approach to modifying and utilizing the processes as the situation demands. Finally, students will integrate being a Citizen Psychologist into their professional identity and will begin the process of lifelong advocacy for the public good.

Discipline Specific Knowledge
2. The second goal is to ensure that the clinical training of students is thoroughly grounded in the broad scientific areas of psychology, and their integration, often referred to as Discipline Specific Knowledge.

Objective 2.1: Students will demonstrate knowledge in the following broad areas of scientific psychology: biological aspects of behavior; cognitive and affective aspects of behavior; social aspects of behavior; history and systems of psychology; psychological measurement; research methodology; and techniques of data analysis

Objective 2.2: Students will demonstrate knowledge in the following scientific, methodological, and theoretical areas of psychology: individual differences in behavior, human development, dysfunctional behavior and analysis, and professional standards of ethics.

Program Specific Competencies
3. Rural areas, underserved populations, and those who have been marginalized are characterized by unique needs that are not often met by service delivery models and therapeutic modalities developed primarily in urban settings. Therefore, a third goal is to promote an understanding regarding the impact of being part of a rural, underserved, and/or marginalized culture has on clinical practice.

Objective 3.1: Students will develop an understanding of the diverse forces at work with rural, underserved, and/or populations that have been marginalized that can and do impact various aspects of human development and community functioning.

Objective 3.2: Students will be able to articulate alternative service delivery models that may improve access and use of behavioral health services for those who are rural, underserved, and/or populations that have been marginalized.

Internship acceptance rates. For the academic year 2024-2025, 15 students applied for internship placement with acceptance figures as follows:

- Percent obtaining internships: 100%
- Percent obtaining paid internships: 100%
- Percent obtaining internships at APPIC sites: 100%
- Percent obtaining internships at APA sites 100%

Attrition. At present, the overall attrition rate is 3% (2020-2024).

Admission Requirements

Applying to the Psy.D. Program

Prerequisite Coursework

Applicants must have completed a minimum of 18 undergraduate semester hours of psychology, including statistics, experimental psychology or research methods, and abnormal psychology in order to be considered for admission. Please note that some courses may have undergraduate prerequisite coursework attached to them. While these undergraduate courses are not required for admission, they must be taken prior to a student's enrollment in those courses with such prerequisites.

Application Deadline and Materials

Students are admitted to the Psy.D. program once per year for classes starting in the Fall semester. Applicants are required to submit the completed application form with all requested supplemental materials, official transcripts from degree-granting institutions, official transcripts of all previous graduate coursework, and three letters of recommendation. Completed applications along with all supporting materials must be received by the December 1 deadline to receive priority consideration for admission the following fall. It should be noted that the application process is competitive. Grade point averages for successful candidates typically range from 3.2 to 3.6. Application materials and current program information can be obtained by contacting the Marshall University Psychology Department, the Marshall University Graduate Admissions office, or by consulting the Psychology Department website at www.marshall.edu/psych (http://www.marshall.edu/psych/).

Applicant Review Process

Applicants are divided into two groups as follows:

1. Post-B.A.: This track is designed for students who either possess no graduate degree or whose graduate degree is in an area other than psychology. Students who have completed some graduate work towards a master's degree in psychology but will not have completed the degree prior to admission to the Psy.D. program would also be a part of this track. Students accepted into this track are expected to enroll as full-time students throughout the program. A student accepted through this track may earn a master's degree in general psychology as he or she makes successful progress toward the Psy.D.
2. Advanced Standing: A student who already has a master's degree in psychology can apply for advanced standing in the Psy.D. program. In order to apply for advanced standing, a student must have completed a master's degree in psychology from an accepted, accredited institution. Students who are admitted with advanced standing must select to enter in either a full-time track or a part-time track by the end of their first semester of enrollment. These tracks are described as follows:

   Full-time track: Students who apply for advanced standing and the full-time track must be able to document coursework and practicum equivalencies equal to approximately 36 hours of coursework required in the Psy.D. program at Marshall University. Review of equivalencies is described in the next section. Students in the full-time track must commit to a minimum of 9 hours of coursework and practica per semester during the entire time of their enrollment. They must also commit to taking summer coursework as needed. As such, these students can anticipate completing the program in approximately four years. This would assume 5-6 semesters of coursework and a full year for the pre-doctoral internship. Students admitted to the full-time track can apply to change to the part-time track if their circumstances warrant such a change. Although students with extenuating circumstances may drop below full-time for a given semester without changing tracks, they should recognize that this change may impact the time it will take to complete the program. Students in this track desiring to attend part time for more than one semester may be required to switch formally to the part-time track.

   Part-time track: Students who apply for advanced standing and the part-time track are not required to document equivalencies at any particular level, although they must still possess a master's degree in psychology from an accredited institution. Students in the part-time track may enroll either full-time or part-time in any given semester with the exception of the residency year, described in the next section. During the residency year, full-time enrollment is required. Students in this track should anticipate completing the program in no fewer than 5 years and no more than 7 years from the date of enrollment.

Graduation Requirements

Vertical Team Practica

Practica in the program are arranged according to vertical teams. Each team is led by a clinical faculty member who is a licensed psychologist. Teams are organized around a particular orientation to clinical conceptualization and treatment planning. Teams include students at all levels of training and allow newer students to be exposed to practica in which they may be placed as they progress through the program. Vertical team arrangements also allow more experienced students to become mentors to more junior students.

Comprehensive Evaluation Process

All students admitted to the program must complete the portfolio evaluation review as part of the comprehensive evaluation process. In addition, students who are admitted without a master's degree will take a written comprehensive prior to being awarded the master's degree.

Doctoral Research Project

All students are required to complete a doctoral research project prior to receiving their Psy.D. degree. Details of the doctoral research process are discussed in the Psy.D. Student Handbook.

Internship Requirement

All students are required to complete a one year, full time (or two year, half time) internship in clinical psychology at an approved internship training site. There are a very limited number of local approved sites and students should anticipate the possibility of relocation during this portion of the training period. Please contact the Psy.D. program director for additional information concerning this requirement.

Residency Requirement

All students are required to enroll as full time students for a one year "residency" period. For most students, this will be the 4th year, when students focus on their doctoral research and their rural practicum placements.

Rural Practicum Placement

A key component of our program is training in and supervised delivery of psychological services in rural settings. All students will spend at least one academic year (two sequential full semesters) placed in an approved rural training site. This placement will require driving to the site and may require an overnight stay each week. More information about this part of the program is available from the Psy.D. Program Director and/or the Practicum Coordinator.

Scheduling of Coursework

Courses are offered during Fall, Spring and Summer terms, with most courses offered no more than once per year. Students must plan to take courses during each term to make appropriate progress through the curriculum.

Other information about program (e.g. comprehensive exams, specific procedures for requesting evaluation of prior graduate coursework, graduate assistantships and other student funding opportunities; the doctoral program fee charged to students each semester of enrollment) is available from the psychology department; please contact the Psy.D. Program Director.

Program Requirements

Two-C Rule and Student Behavior

The following two statements are applicable to all psychology graduate programs.

1. *2-C Rule*: Psychology students cannot be admitted to, or continue in, a graduate program in psychology if they earn more than one grade of "*C*" or lower in any graduate course in psychology or any course included in the plan of study. Such students will not be permitted to continue taking courses or to work on a doctoral research project. Please see the complete description of the 2C Rule on the second page of the M.A. in Psychology section.
2. *Ethics and Student Behavior*: Students in all programs are expected to behave in accordance with the APA Ethical Principles and Code of Conduct. Consequences for violations may include suspension or dismissal from the student's program of study. When students in the clinical area of emphasis (M.A. program) or the Psy.D. program exhibit behavior indicating inability or limited capacity to successfully perform clinical roles and functions, they may be suspended or dismissed from their program of study.

Plan of Study

Following are the courses required for the Psy.D. program. A curriculum by year can be found by visiting the website at www.marshall.edu/psych (http://www.marshall.edu/psych/).

Code	Title	Credit Hours
Foundational Psychotherapy		
PSY 633	Individual Psychotherapy	3
Foundational Assessment		
PSY 706	Integrated Assessment I	3
PSY 707	Int Assessment Pract I	3
PSY 708	Integrated Assessment II	3
PSY 709	Int Assessment Pract II	3
Optional		
PSY 710	Adv Psych Assessment	
Biological Bases of Behavior		
PSY 674	Biological Bases of Behavior	3
PSY 618	Psychopharmacology	3
PSY 750	Clinical Health Psychology	3
Cognitive and Affective Aspects of Behavior		
PSY 672	Cognition and Emotion	3
History and Systems of Behavior		
PSY 560	History & Systems Psych	3
Research Methodology and Data Analysis		
PSY 723	Clin Res Meth in Psych	3
PSY 799	Doctoral Research (6 or more credits)	6
PSY 717	Adv Quantitative Analysis	3
or EDF 625	Qualitative Research Educ	
Human Development and Individual Differences		
PSY 615	Adv Developmental Psychology	3
PSY 712	Geropsychology	3
PSY 764	Adv Human Sexuality	3
Psychopathology		
PSY 608	Differ Diagnosis & Treat Plan	3
Professional Standards and Ethics		
PSY 605	Ethic Legal & Prof Issue Psych	3
Social Aspects of Behavior		
PSY 606	Adv Social Psychology [1]	3
Cultural and Individual Diversity		
PSY 752	Rural Community Psych I	3
PSY 726	Adv St Cross Cult Psych	3
Advanced Psychotherapy		
PSY 635	Child/Fam Diagn Therapy	3
PSY 731	Psychotherapy I	3
PSY 732	Psychotherapy II	3
PSY 733	Psychotherapy III	3
PSY 755	Rural Community Psych II	3
PSY 634	Group Therapy	3
Consultation and Supervision		
PSY 753	Supervision in Clin Psy	3
Clinical Practica		
PSY 670	Clinical Practicum	3
PSY 671	Clinical Practicum	3
PSY 769	Pract in Clinical Psychology	3
PSY 713	Adv Assess Practicum	3
PSY 714	Adv Assess Practicum	3
PSY 770	Adv Practicum in Clin Psy	3
PSY 771	Adv Practicum in Clin Psy	3
PSY 772	Rural Pract I	3
PSY 773	Rural Practicum II	3
Internship		
Select 3-9 credits from the following:		3-9

PSY 780	Pre-Doctoral Internship	
PSY 781	Pre-doctoral Internship	
PSY 782	Pre-doctoral Internship	
PSY 783	Pre-Doctoral Internship	
Clinical Seminars		
Select two of the following:		6
PSY 790	Sem: Clinical Psychology	
PSY 791	Sem: Clinical Psychology	
PSY 792	Sem: Clinical Psychology	
PSY 793	Sem: Clinical Psychology	
PSY 794	Sem: Clinical PSY	
PSY 795	Sem:Clinical Psychology	
PSY 796	Sem: Clinical PSY	
Teaching Experience		
Optional		
PSY 600	Teaching Psychology	
Total Credit Hours		**123-129**

[1] *Note:* PSY 606 Adv Social Psychology carries a prerequisite of having taken an undergraduate course in Social Psychology. This prerequisite must be fulfilled before taking PSY 606 Adv Social Psychology as a program requirement.

Psychology, Accelerated Graduate Degree

Undergraduates accepted to an Accelerated Graduate Degree (AGD) program for the general Psychology Masters with or without an Emphasis in School Psychology program can begin taking master's level classes while still in the B.A. or B.S. program in psychology. These graduate credits can be used for both the undergraduate and graduate level coursework and will help facilitate an easy and fast transition into the general Psychology Master's program if a student is accepted. In order to be accepted into the AGD, please see your advisor to see if you qualify for one of these positions. You must have junior standing and a GPA Of 3.3 but communication with your academic advisor prior to application is essential.

AGD applicants who meet these program GPA admission requirements are exempt from submitting GRE scores and letters of recommendation to be considered for formal admission to the general Psychology Master's program. It is important to note that during the last semester of the undergraduate degree program, students in the AGD program must apply for formal admission to the graduate program for the master's program in Psychology either the General or School Psychology emphasis.

Undergraduates accepted to an Accelerated Graduate Degree (AGD) program can begin taking graduate level classes while still in their undergraduate program. These graduate credits can be used for both the undergraduate and graduate level coursework and will help facilitate an easy and fast transition into a graduate program if a student is accepted. To be accepted into the AGD, please see your advisor to see if you qualify for one of these positions.

Programs offering an AGD option may allow up to 12 hours of graduate level coursework to also count towards an undergraduate degree.

Graduate coursework/credit will appear only on the graduate transcript, and graduate course grades will be calculated towards the graduate GPA.

Admission Requirements

Eligibility Requirements for Accelerated Graduate Degree Program

- Must have completed at least 90 hours toward the bachelor's degree.
- Must have at least a 3.30 overall undergraduate GPA.
- Must have at least a 3.30 GPA in the major.
- Must have completed an introductory statistics course.
- Must have completed an experimental psychology course.
- Must have completed at least nine hours of psychology at the 300-400 level.
- Must meet the admission requirements of the chosen master's degree program.

For admission to the AGD in psychology, students must meet the requirements established by the university. In addition, applicants must have completed an Introductory Statistics course and an experimental psychology course and at least nine hours of psychology at the 300-400 level. Students admitted to the AGD program are being admitted to the general psychology MA program. Admission to the M.A. program with an emphasis in clinical psychology or school psychology requires a separate application and additional requirements must be met as outlined in the graduate catalog.

AGD Credits: 12 credits that must be approved in the plan of study.

How to Apply

1. During the junior or senior year, eligible students should meet with their Undergraduate Advisor and the Director of Graduate Studies of their chosen Master's degree program to develop an AGD plan of study. Any changes to the AGD plan of study must be approved by the undergraduate advisor and director of graduate studies in writing to the dean of the college.
2. The student's acceptance into the AGD program is subject to the approval of the plan of study by the dean of the college.
3. Students accepted into the AGD program should apply for admission to the chosen master's degree program for the first semester after the bachelor's degree is awarded. Applications should be submitted during the last semester of the senior year.

Students must maintain a minimum GPA of 3.0 for all graduate credit toward their master's degree program.

Withdrawal from the AGD

A student may withdraw at any time from the AGD by informing the undergraduate advisor, the director of graduate studies and the dean of the college in writing. A student's status will then revert to the standard undergraduate degree program. Any graduate hours earned must be approved for use in fulfillment of bachelor's degree requirements by the student's undergraduate dean.

From Undergraduate to Graduate Student

Beginning with the semester after the student has earned the bachelor's degree and has been accepted into a master's degree program, the student is enrolled in the graduate program and is assessed tuition and fees at the graduate rate. All rules regarding graduate education will apply to the student once admitted into the master's degree program.

Psychology, M.A.

Program Description

The general psychology M.A. program requires a minimum of 36 graduate credit hours, though students may complete significantly more, depending upon their objectives. A common "core" of 24 credits is required of all students. The remaining hours are selected in consultation with an advisor to help meet students' academic and professional goals.

Note: For both educational and ethical reasons, it is important that students obtain education and training that is consistent with their career goals. For example, students who intend to work in applied fields of psychology (e.g., clinical, counseling, school, industrial/organizational) should pursue and complete programs of study that prepare them with the skills, knowledge and supervised experience needed to develop competence in that field; this process is consistent with the APA ethical requirement that psychologists restrict their professional work to areas in which they have developed and maintained competence.

Prospective students in the general M.A. program should recognize that the general M.A. program is **not** in itself a clinical training program; students who plan to do clinical work should apply for and complete the entire Clinical Psychology sequence, which is designed to prepare graduates for entry-level clinical positions.

Admission Requirements

Applicants are required to submit the completed application form with all requested supplemental materials, official transcripts from degree-granting institutions, official transcripts of all previous graduate coursework, official report of the Graduate Record Examination (GRE) General Test (scores may not be more than five (5) years old), and three letters of recommendation. Completed applications along with all supporting materials must be received by the program's deadline to be considered for admission. It should be noted that the application process is competitive. It is recommended that scores on the GRE Verbal section not be lower than 146 and scores on the Quantitative section not be lower than 140. Likewise, it is recommended that applications have a minimum combined total on those two sections of 297 (revised scoring beginning in Fall 2011). One exception for M.A. in Psychology is the School Psychology emphasis, which does not require the GRE for admission.

An Undergraduate Grade Point Average (GPA) of 3.0 or higher on a 4.0 scale for all previously completed undergraduate university work is required.

Completion of the following prerequisite courses is required for admission to any M.A. psychology program: Elementary or Introductory Statistics, Experimental Psychology or Research Methods; Abnormal Psychology; Learning, Social Psychology and Developmental Psychology. These prerequisite courses must have been passed at the undergraduate level with a grade no lower than a *B*.

Admission Priority Deadlines

Applications for admission to the General Psychology Master's, School Psychology Emphasis, and Behavioral Statistics Certificate programs are due by the following dates:

Domestic Applicants

Term	Due Date
Fall	August 1
Spring	December 1
Summer	May 1

International Applicants

Term	Due Date
Fall	June 15
Spring	October 15
Summer	March 15

Priority Deadline for the Clinical Emphasis and Post Master's Certificate is January 31st for Fall Term.

Application Process

All applicants should follow the admissions process described in the Graduate Catalog. Application materials and current program information can be obtained by contacting the Marshall University Psychology Department, the Marshall University Graduate Admissions office website at www.marshall.edu/graduate/admissions/how-to-apply-for-admission (http://www.marshall.edu/graduate/admissions/how-to-apply-for-admission/), or by consulting the Psychology Department website at www.marshall.edu/psych/ (https://www.marshall.edu/psych/). (Submit all materials to the Graduate Admissions Office.)

Conditional Admission

Students may be admitted to the general psychology master's program with "Conditional" status if they are missing certain official documentation supporting their application. Examples of such official documentation include a final transcript from their college or university documenting the successful completion of the bachelor's degree. This may occur when a student applies to the general psychology master's program while completing the final semester or quarter of their undergraduate program. Another typical situation includes official documentation of GRE scores. Other situations may also occur requiring an applicant to be admitted with "Conditional" status. Once the missing documentation is received by the graduate admissions office the applicant's status may be changed from "Conditional" to "Full" status.

Provisional Admission

Students may be admitted to the general psychology master's program with "Provisional" status if either the GRE admission criterion **or** the GPA criterion is met. (Students who do not meet **either** criterion are not eligible for admission to the program.) Provisionally admitted students will be fully admitted to the program when they have completed 12 hours of classes (which must include PSY 517 Inter Behavioral Stat and PSY 506 Psychometrics) from the core courses listed below with no grade being below a *B*. A student who earns a *C* or lower in any of the listed core classes during the period of provisional

status will not be permitted to take further graduate hours within the psychology department. Students who meet the undergraduate GPA and GRE test score requirements but who are missing no more than two of the required undergraduate prerequisite classes listed above may also be granted provisional admission status. They will then be able to take some graduate classes with the approval of their advisors while completing the undergraduate prerequisites. However, they may only enroll in graduate classes for which they have taken the prerequisite as an undergraduate. For example, a student who has not had elementary statistics cannot enroll in Intermediate Statistics (PSY 517 Inter Behavioral Stat); a student without an undergraduate social psychology course cannot take Advanced Social Psychology, etc. Students granted provisional admission status because of missing course prerequisites will be fully admitted to the program upon successful completion of the missing prerequisites and of any graduate courses taken during the provisional period. Students will *not* be provisionally admitted to the area of emphasis in clinical psychology or the post master's certificate in clinical psychology.

Students granted provisional admission status must take:

Code	Title	Credit Hours
PSY 517	Inter Behavioral Stat	3
PSY 506	Psychometrics	3
Select two of the following:		6
PSY 674	Biological Bases of Behavior	
PSY 672	Cognition and Emotion	
PSY 606	Adv Social Psychology	
or PSY 503	Applied Social Psychology	
PSY 615	Adv Developmental Psychology	
or PSY 617	Applied Dev Psych	

No student may take more than 18 hours in the psychology department without receiving full admission to the department.

Provisional students will be assigned an advisor who must approve all course registrations. Provisional students will have a departmental hold placed on their registration to assure advisor approval and compliance with this policy. This hold will be permanently removed upon full admittance.

Program Requirements

General Requirements

The general psychology M.A. program requires a minimum of 36 graduate credit hours, though students may complete significantly more, depending upon their objectives. A common "core" of 24 credits is required of all students. The remaining hours are selected in consultation with an advisor to help meet students' academic and professional goals. The Clinical Psychology area of emphasis (see below) requires a minimum of 26 specified credits beyond the core of 24 credits for a total of 50 credits.

2-C Rule

Master's-level coursework and doctoral coursework are viewed separately in terms of this policy. In essence, a student may only receive one (1) grade of *C* per degree program (M.A., post-M.A. within Psy.D.) In the event of the second *C* the student will be dismissed from the program.

Having one (1) grade of *C* or lower in any particular program (i.e., General M.A., clinical certificate, Clinical M.A., or Psy.D.) will not disqualify the student completing the degree program successfully. After receiving the first *C* grade the student must meet with his/her advisor and the professor of that particular course in order to identify and address issues/behaviors of concern. A form will be signed by the student, professor, and advisor. If the student is enrolled in one of the designated clinical courses listed in the subsequent section, the course must be repeated but the grade of *C* or lower will still stand on the record as a first obtained *C*. In other words, the grade cannot be replaced. If the student completes the remaining master's-level coursework without a second graduate of *C* or lower, s/he will begin the post-M.A. coursework with a "clean slate."

Note: For the purposes of clarification, if a student is enrolled in a terminal master's program, all coursework required for completion of the degree is considered master's-level coursework. Students who are admitted to the Psy.D. program but have not completed an M.A. or M.S. in psychology prior to admission will have all coursework completed within the first 56 hours considered as master's-level coursework. Students who enter the Psy.D. program with a completed master's degree will have the coursework used to complete the master's degree at the prior institution considered as master's level coursework.

Consequences of a second C in terminal master's in psychology programs or certificate programs: If a student receives a second grade of *C* or lower prior to completing the master's-level coursework, s/he will be dismissed from the master's program. If a student has completed a master's program in psychology and has a grade of *C* or lower in required psychology coursework, and then applies for admission to the Clinical Emphasis certificate program, the grade of *C* or lower earned in the master's program will count as the first *C*. As noted previously, if the *C* was earned in designated clinical coursework, the course must be re-taken.

Consequences of a second C in the Psy.D. program: If the student is enrolled in the Psy.D. program and receives a second grade of *C* or lower in master's-level coursework (see definition above), s/he will dismissed from both the psychology master's and Psy.D. program and will not be allowed to complete the master's degree. If the student completes the master's-level coursework without an additional grade of *C* or lower, and that student is enrolled in the Psy.D. program, s/he will be allowed to move on to the post-M.A. portion of the Psy.D. program with a "clean slate." The post-M.A. portion of the Psy.D. program is defined as all hours taken after the 56th hour that are required for the completion of the Psy.D. program.

Once admitted to the post-M.A. portion of the program, a student who earns a grade of *C* or lower will be required to meet with his/her advisor and the professor of the course in which the grade was earned to discuss issues of concern. If the course is one of the designated clinical courses listed in the subsequent section, the student will be required to repeat the course. A second grade of *C* or lower in the post-M.A. portion of the program will result in dismissal from the doctoral program without the awarding of the Psy.D. degree.

Ethics and Student Behavior

Students in all programs are expected to behave in accordance with the APA Ethical Principles and Code of Conduct. Consequences for violations may include suspension or dismissal from the student's program of study. When students in the clinical area of emphasis (M.A. program) exhibit behavior indicating inability or limited capacity

to successfully perform clinical roles and functions, they may be suspended or dismissed from their program of study.

Plan of Study

Before registration for the 12th graduate credit hour, all graduate students must complete an official Plan of Study form to be approved by the Graduate Director and/or Department Chair and submitted for approval to the Graduate Studies office.

Comprehensive Evaluation

A written comprehensive examination is required of all students in the M.A. program. Details about the exam are available from advisors and the program coordinator. In addition, students in the Clinical Psychology certificate program must, as part of their clinical internship, complete a comprehensive evaluation based on identified clinical competencies.

Additional Coursework

The general psychology M.A. program requires a minimum of 12 additional credit hours beyond the required core. These are to be selected in consultation with the advisor. With the advisor's approval, courses from other departments that are consistent with the student's academic and career goals may be included in the required 12 additional credits. Students may, and often do, take more than 36 credit hours as part of their degree programs; in preparing their plans of study, students should carefully discuss their academic and career goals with their advisors and other faculty members.

Area of Emphasis in Clinical Psychology

The Clinical Psychology area of emphasis consists of 26 credit hours of clinical coursework and supervised clinical experience beyond the required department core. (*Note:* These 26 credits will meet the requirements for 12 additional credits as noted above in Additional Coursework.) It is designed to prepare graduates for master's degree level clinical roles within professional psychology. It is open to individuals who have received a bachelor's degree from a regionally accredited college / university **or** who already hold a master's or doctoral degree in a non-clinical area of psychology and whose courses meeting the required core courses were completed more than seven (7) years prior to admission, as these courses will no longer be considered for transfer. Any student who is fully admitted to the Psychology M.A. program may apply for admission to the clinical psychology area of emphasis (please see *Note* under "Application Process.") More information and application materials are available from advisors and from the Clinical area coordinator.

Required Courses

Those courses marked with [1] are restricted to students in the clinical track. It is important to note that students in the clinical area of emphasis *must* complete the entire track to receive any letters of support or other indication from individual faculty members, the department or the university that the student has achieved appropriate competence in the skills or knowledge bases associated with master's level clinical training, and such students must complete the entire sequence for the Clinical Psychology Area of Emphasis to appear on their transcripts.

Area of Emphasis in School Psychology

The School Psychology area of emphasis consists of 36 hours. It is designed to prepare students for entry into the School Psychology Education Specialist (Ed.S.) program. Any student who is fully admitted to the Psychology M.A. School Psychology area of emphasis may apply to the Ed.S. program in School Psychology in the spring semester of his/her first year.

Two-C Rule and Student Behavior

The following two statements are applicable to all psychology graduate programs:

1. *2-C Rule:* Psychology students cannot be admitted to, or continue in, a graduate program in psychology if they earn more than one grade of *"C"* or lower in any graduate course in psychology or any course included in the plan of study. Such students will not be permitted to continue taking courses or to work on a doctoral research project. Please see the complete description of the 2-C Rule on the second page of the M.A. in Psychology section.
2. *Ethics and Student Behavior:* Students in all programs are expected to behave in accordance with the APA Ethical Principles and Code of Conduct. Consequences for violations may include suspension or dismissal from the student's program of study. When students in the clinical area of emphasis (M.A. program) or the Psy.D. program exhibit behavior indicating inability or limited capacity to successfully perform clinical roles and functions, they may be suspended or dismissed from their program of study.

1.

Plan of Study

Thesis Option

Students have the option of completing a research thesis. The department has established a set of criteria and procedures for doing a thesis; these are available from advisors. These may be good choices for students intending to continue their education in research-oriented Ph.D. programs. This issue should be carefully discussed with the advisor. Up to 6 credits of PSY 681 Thesis may be included as "additional coursework" discussed below.

Curriculum

Code	Title	Credit Hours
Core Requirements		
PSY 517	Inter Behavioral Stat [1]	3
PSY 674	Biological Bases of Behavior	3
PSY 672	Cognition and Emotion	3
Select one of the following:		3
PSY 606	Adv Social Psychology [2]	
PSY 503	Applied Social Psychology [2]	
PSY 615	Adv Developmental Psychology	3
or PSY 617	Applied Dev Psych	
PSY 506	Psychometrics [3]	3
PSY 605	Ethic Legal & Prof Issue Psych	3
PSY 692	Seminar	3
Total Credit Hours		**24**

[1] *Note:* If PSY 417 Inter Behavioral Stat or its equivalent was completed with a *B* or better as an undergraduate, an additional statistics course must be substituted, in consultation with the student's advisor.

[2] *Note:* If either course or its equivalent was completed with a *B* or better as an undergraduate, the student must take the other course at the graduate level.

[3] *Note:* If PSY 406 Psychometrics or its equivalent was completed with a *B* or better as an undergraduate, an acceptable alternative must be substituted, in consultation with the student's advisor.

- Clinical Psychology (p. 296)
- School Psychology (p. 296)

Clinical Psychology

Admissions are currently suspended for this area of emphasis.

School Psychology

Area of Emphasis in School Psychology

The following courses are required for the School Psychology area of emphasis. Most of these courses are offered on the South Charleston campus.

Code	Title	Credit Hours
Core Requirements		
PSY 674	Biological Bases of Behavior	3
or SPSY 674	Bio Bases School Psych	
PSY 623	Experimental Design	3
PSY 672	Cognition and Emotion	3
or SPSY 675	Cognitive/Emo Bases Sch Psy	
PSY 526	Cross Cultural Psychology	3
PSY 615	Adv Developmental Psychology	3
or SPSY 616	Typ & Atyp Child Dev	
PSY 605	Ethic Legal & Prof Issue Psych	3
PSY 506	Psychometrics	3
or SPSY 621	Data-Based Decision I	
PSY 692	Seminar	3
Area of Emphasis Requirements		
SPSY 601	Prof Comp I Schools	3
SPSY 617	Ind Svc I Consultation	3
SPSY 618	Dir Svc I Instruct & Bmod	3
SPSY 619	Dir Svc II-Ind Grp Csl	3
or PSY 619	Psychotherapy with Children	
Total Credit Hours		**36**

Psychology, Minor

A minor in psychology is earned by successfully completing at least 6 credit hours at the 500- or 600- level in Psychology as approved by the student's advisor and the Psychology Department Chair.

Public Administration, Accelerated Graduate Degree

Public Administration, Accelerated Graduate Degree

Undergraduates accepted to an Accelerated Graduate Degree (AGD) program can begin taking graduate level classes while still in their undergraduate program. These graduate credits can be used for both the undergraduate and graduate level coursework and will help facilitate an easy and fast transition into a graduate program if a student is accepted. To be accepted into the AGD, please see your advisor to see if you qualify for one of these positions.

Undergraduates accepted into an AGD program can begin taking graduate coursework during their junior or senior year. Programs offering an AGD option may allow up to 12 hours of graduate level coursework to also count towards an undergraduate degree.

Graduate coursework/credit will appear only on the graduate transcript, and graduate course grades will be calculated towards the graduate GPA.

Eligibility Requirements for AGD Program

- Must have completed at least 60 hours toward the Bachelor's degree;
- Must have at least a 3.30 overall undergraduate GPA;
- Must have at least a 3.30 GPA in the major;
- Must meet the admission requirements of the chosen graduate degree program, apart from the receipt of a bachelor's degree. Students must earn a bachelor's degree to be fully admitted into the graduate degree program.

AGD programs may have admission requirements that differ from the admission requirements for the regular graduate degree. For example, some departments might waive the required admission test, such as the GRE or GMAT. Students should check with the chosen graduate degree program.

How to Apply

1. During the junior or senior year, eligible students should meet with their Undergraduate Advisor and the Director of Graduate Studies of their chosen graduate degree program to develop an AGD plan of study. Any changes to the AGD plan of study must be approved by the undergraduate advisor and director of graduate studies in writing to the dean of the college housing the graduate program.
2. The student's acceptance into the AGD program is subject to the approval of the plan of study by the dean of the college housing the graduate program.
3. Students accepted into the AGD program should apply for admission to the chosen graduate degree program for the first semester after the bachelor's degree is awarded. Admission applications should be submitted during the last semester of the senior year.

Students must maintain a minimum GPA of 3.0 for all graduate credit toward their graduate degree program.

Withdrawal from the AGD

A student may withdraw at any time from the AGD by informing in writing the undergraduate advisor, the director of graduate studies and the dean of the college housing the graduate program. The student's status will then revert to the standard undergraduate degree program. Any graduate hours earned must be approved for use in fulfillment of bachelor's degree requirements by the student's undergraduate dean.

From Undergraduate to Graduate Student

Beginning with the semester after the student has earned the bachelor's degree and has been accepted into a graduate degree program, the student is enrolled in the graduate program and is assessed tuition and fees at the graduate rate. All rules regarding graduate education will apply to the student once admitted into the graduate degree program.

Public Administration, M.P.A.

PUBLIC ADMINISTRATION, M.P.A.

Welcome to our fully online Master of Public Administration (M.P.A.) program, where we empower leaders committed to upholding the principles of integrity, innovation, and democratic values. Our program is dedicated to equipping you with the knowledge and skills necessary to manage public resources, address complex community challenges through creative problem-solving, and inspire others to engage with diverse public institutions.

Program Highlights:

- Comprehensive Curriculum: Our graduate curriculum encompasses a 36-semester credit hour requirement, carefully designed to provide a strong foundation and specialized knowledge. You will find a blend of required core courses and the opportunity to select a specialty area of emphasis (concentration) that aligns with your career aspirations.
- Areas of Emphasis: Choose from four distinct Areas of Emphasis, each tailored to cater to your specific interests and career goals:
  - Nonprofit Leadership & Management: Understand the world of nonprofit organizations and learn how to lead and manage them effectively.
  - Business and Government Relations: Explore the intricate relationship between business and government, gaining insight into how they interact and influence one another.
  - Cybersecurity and Policy Management: Grasp the critical role of cybersecurity in shaping public institutions, and acquire skills for managing policy in this digital age.
  - Planning & Economic Development: Discover the dynamics of urban planning, economic development, and community growth.
- Flexibility for All: Our interdisciplinary curriculum is designed to cater to the needs of both working professionals seeking career advancement and traditional graduate students aspiring to enter the workforce. You will find a balance that suits your unique circumstances.
- Hybrid Approach: We combine the best of policy analysis and public management in our curriculum. You will gain a holistic understanding of how policies are formulated, implemented, and managed, ensuring you are well-prepared for the multifaceted challenges of public administration.

Accelerated Graduate Degree Path:

For those looking to expedite their educational journey, we offer our undergraduates an Accelerated Graduate Degree path, allowing them to complete their M.P.A. in an accelerated timeframe.

Career Paths:

Upon successful completion of our M.P.A. program, students are prepared with the knowledge, skills, and abilities for diverse career opportunities. Our graduates have gone on to excel in various careers, including but not limited to policy analysts, grant writers and administrators, budget analysts, program analysts, city managers, regional planners, industry innovators, and nonprofit managers.

Admission Requirements

Applicants should follow the admissions process outlined in the Graduate Catalog or at the Graduate Admissions website at www.marshall.edu/graduate/admissions/how-to-apply-for-admission (http://www.marshall.edu/graduate/admissions/how-to-apply-for-admission/).

In addition, applicants must have:

- a current resume or curriculum vitae;
- a personal statement describing the applicant's interest in the program and goals from program completion.

All students are required to submit a portfolio of their work for approval by the MPA Director. Students will work on this requirement as part of the PADM 616 Scope and Practice Capstone Experience course.

Every MPA portfolio will demonstrate the core competencies of public administration:

a) manage in public organizations

b) participate in and contribute to the policy process

c) analyze synthesize, think critically, solve problems and make decisions

d) communicate and interact in diverse groups and in diverse settings

Program Requirements

The M.P.A. program is composed of the following required 36 credit hours:

Code	Title	Credit Hours
PADM 533	Public Policy Development	3
PADM 552	Public Personnel	3
PADM 553	Public Finance Management	3
PADM 604	Data Driven Decision-Making	3
PADM 616	PADM Scope and Practice	3
PADM 621	City Management	3
PADM 632	Nonprofit Management	3
PADM 650	Administrative Law	3
Area of Emphasis or Approved Electives [1]		12
Total Credit Hours		**36**

[1] Students will choose the remaining 12 credit hours by completing an area of emphasis or taking approved electives.

- Cybersecurity and Policy, Emphasis (p. 298)
- Government Relations, Emphasis (p. 298)

- Nonprofit Leadership, Emphasis (p. 298)
- Planning and Economic Development, Emphasis (p. 299)

Cybersecurity and Policy, Emphasis

Cybersecurity and Policy, Emphasis

The establishment of an area of emphasis in Cybersecurity and Policy within the MPA program is an imperative response to the evolving challenges in the public sector. Industry standards underscore the critical need for professionals equipped with a profound understanding of cybersecurity and its intersection with policy formulation and implementation. The increasing frequency and sophistication of cyber threats demand a specialized skill set to safeguard sensitive information and ensure effective policy responses. This emphasis directly addresses this demand, providing students with comprehensive knowledge in cybersecurity strategy, risk management, and policy development. By aligning our curriculum with industry expectations, we aim to produce graduates who can navigate the complex landscape of cybersecurity and contribute to the resilience and security of public institutions.

Code	Title	Credit Hours
Select 12 credit hours from the following:		
CYBR 500	Computer Security Design	
CYBR 510	Intro to Cybersecurity	
CYBR 530	Cybersec Policies & Mgmt	
CYBR 535	Cyber Risk	
CYBR 542	Cyber Operations	
CYBR 615	Cyber Vulnerability Assess	
CYBR 620	Cyberwarfare	
MIS 647	IT Disaster Plan and Recovery	
MIS 678	Management Infor Systems	
PADM 618	Debates in Public Admin	
PADM 620	Comparative Public Admin	
PADM 654	Public Organizations	
PADM 660	Policy Analysis	

Government Relations, Emphasis

Government Relations, Emphasis

The establishment of an area of emphasis in Government and Private Sector Relations within the MPA program is a strategic response to the evolving landscape of public administration. Industry standards and employer expectations increasingly emphasize the critical role of professionals adept at navigating the intricate relationships between government and the private sector. This emphasis addresses a gap in specialized knowledge, ensuring that graduates possess a nuanced understanding of collaboration, regulatory frameworks, and policy intersections in both realms. By aligning our curriculum with these industry imperatives, we aim to equip our students with the skills and insights necessary to excel in roles that require effective engagement and synergy between government entities and the private sector. This emphasis not only meets the growing demand for such expertise but also positions our graduates as valuable contributors to the dynamic field of public administration.

Code	Title	Credit Hours
Select 12 hours from the following:		
LE 691	Gov Bus Relationships	3
PADM 618	Debates in Public Admin	3
PADM 620	Comparative Public Admin	3
PADM 627	Leaders and Innovators	3
PADM 654	Public Organizations	3
PADM 660	Policy Analysis	3
MGT 620	Human Resource Management	3
MGT 672	Organizational Behavior	3
MGT 677	Supply Chain Management	3
MGT 692	Ethics/Global Aspects Bus	3

Nonprofit Leadership, Emphasis

Nonprofit Leadership, Emphasis

The establishment of an area of emphasis in Nonprofit Management and Leadership within the MPA program is justified by the growing significance of the nonprofit sector in contemporary public administration. Nonprofit organizations play a crucial role in addressing societal challenges, and skilled leaders are essential for their effective operation. This specialization caters to the increasing demand for professionals equipped with specialized knowledge in nonprofit management, offering students a targeted curriculum covering key aspects such as organizational governance, fundraising, and program evaluation. Furthermore, the introduction of this emphasis aligns with industry standards and the evolving expectations for MPA graduates. As the nonprofit sector continues to grow and diversify, employers seek professionals with specialized skills and knowledge tailored to the unique dynamics of nonprofit organizations. This emphasis ensures that our graduates not only meet but exceed the expectations of the industry, positioning them as highly qualified leaders capable of making significant contributions to the nonprofit sector and advancing the broader goals of public administration.

Code	Title	Credit Hours
Select 12 hours from the following:		
PADM 618	Debates in Public Admin	3
PADM 620	Comparative Public Admin	3
PADM 627	Leaders and Innovators	3
PADM 654	Public Organizations	3
ACC 512	Govt NFP Accounting	3
ENG 531	Writing for Nonprofit	3
LS 615	Leadership in Public Sector	3
LS 626	Fundraising Management	3
LS 633	Lead International Nonprofit	3
LS 640	Legal Issues NPO & Public	3
LS 645	Comm Collaborative Plan Mgmt	3

Planning and Economic Development, Emphasis

Planning and Economic Development, Emphasis

The introduction of an area of emphasis in Planning and Economic Development within our MPA program is a strategic response to the evolving demands of the public administration field. Industry standards underscore the critical need for professionals equipped with a nuanced understanding of urban planning, economic policies, and community development. This emphasis addresses a substantial gap in specialized knowledge, ensuring graduates are well-prepared for roles that require comprehensive skills in urban and regional planning, economic analysis, and sustainable development practices. By aligning our curriculum with these industry imperatives, we aim to produce graduates capable of addressing complex challenges and contributing to the sustainable growth and development of communities and regions.

Code	Title	Credit Hours
Select 12 hours from the following:		
PADM 618	Debates in Public Admin	3
PADM 654	Public Organizations	3
GEO 510	Urban Geography	3
GEO 523	Cartography & GIS	3
GEO 524	Transportation Geography	3
GEO 526	Geographic Information Systems	4
GEO 534	Flood Hazards and GIS	3
GEO 607	Economic Geography	3
GEO 619	Seminars in Geography	1-3

Public History, Graduate Certificate

Program Description

This is an interdisciplinary program housed in Marshall University's History department. The program will combine practical coursework with field experiences and draws upon the faculty and resources of five graduate programs to prepare the student for career opportunities in museums, historic homes, libraries, archives, state and national parks and for local, state and federal governmental agencies.

Admission Requirements

- The admissions requirements are the same as for the History master's degree, except that neither a personal statement nor Graduate Record Examination (GRE) scores are required.
- Prospective certificate-only students should apply for admission to Marshall University as a Certificate/Professional Development student and select the Public History Certificate on the application form.
- Applicants should follow the admissions process described in the Graduate Catalog, or at the Graduate Admissions website at www.marshall.edu/graduate/admissions/how-to-apply-for-admission (http://www.marshall.edu/graduate/admissions/how-to-apply-for-admission/).
- Students already enrolled in the History master's program who wish to earn the certificate simultaneously can apply easily by submitting a Secondary Program Request form.

All materials should be submitted to the Graduate Admissions office.

Program Requirements

To earn a Certificate in Public History, students must complete 18 credit hours of relevant coursework.

Course Requirements

Code	Title	Credit Hours
Required Courses		
HST 537	Intro Public History	3
HST 640	Archives and Special Coll	3
HST 680	Public History Internship	3
Select at least two of the following:		6
HST 524	US Science & Technology	
HST 538	Stuff and Things in History	
HST 635	Oral/Local History Seminar	
Select one of the following:		3
HST 524	US Science & Technology	
HST 538	Stuff and Things in History	
HST 635	Oral/Local History Seminar	
ANT 567	Culture through Ethnography	
GEO 506	Population Geography	
JMC 575	Documentary Journalism	
MKT 511	Marketing and Management	
SOC 615	Applied Demography	
Total Credit Hours		**18**

Certain Special Topics in the Graduate Humanities program may also be used. Students should check with the certificate administrator when selecting their courses.

Sociology, Accelerated Graduate Degree

Sociology, Accelerated Graduate Degree

Undergraduates accepted to an Accelerated Graduate Degree (AGD) program can begin taking graduate level classes while still in their undergraduate program. These graduate credits can be used for both the undergraduate and graduate level coursework and will help facilitate an easy and fast transition into a graduate program if a student is accepted. To be accepted into the AGD, please see your advisor to see if you qualify for one of these positions.

Undergraduates accepted into an AGD program can begin taking graduate coursework during their junior or senior year. Programs offering an AGD option may allow up to 12 hours of graduate level coursework to also count towards an undergraduate degree.

Graduate coursework/credit will appear only on the graduate transcript, and graduate course grades will be calculated towards the graduate GPA.

Eligibility Requirements for AGD Program

- Must have completed at least 60 hours toward the Bachelor's degree;
- Must have at least a 3.30 overall undergraduate GPA;
- Must have at least a 3.30 GPA in the major;
- Must meet the admission requirements of the chosen graduate degree program, apart from the receipt of a bachelor's degree. Students must earn a bachelor's degree to be fully admitted into the graduate degree program.

AGD programs may have admission requirements that differ from the admission requirements for the regular graduate degree. For example, some departments might waive the required admission test, such as the GRE or GMAT. Students should check with the chosen graduate degree program.

How to Apply

1. During the junior or senior year, eligible students should meet with their Undergraduate Advisor and the Director of Graduate Studies of their chosen graduate degree program to develop an AGD plan of study. Any changes to the AGD plan of study must be approved by the undergraduate advisor and director of graduate studies in writing to the dean of the college housing the graduate program.
2. The student's acceptance into the AGD program is subject to the approval of the plan of study by the dean of the college housing the graduate program.
3. Students accepted into the AGD program should apply for admission to the chosen graduate degree program for the first semester after the bachelor's degree is awarded. Admission applications should be submitted during the last semester of the senior year.

Students must maintain a minimum GPA of 3.0 for all graduate credit toward their graduate degree program.

Withdrawal from the AGD

A student may withdraw at any time from the AGD by informing in writing the undergraduate advisor, the director of graduate studies and the dean of the college housing the graduate program. The student's status will then revert to the standard undergraduate degree program. Any graduate hours earned must be approved for use in fulfillment of bachelor's degree requirements by the student's undergraduate dean.

From Undergraduate to Graduate Student

Beginning with the semester after the student has earned the bachelor's degree and has been accepted into a graduate degree program, the student is enrolled in the graduate program and is assessed tuition and fees at the graduate rate. All rules regarding graduate education will apply to the student once admitted into the graduate degree program.

Sociology, M.A.

Program Orientation

The Department of Sociology and Anthropology at Marshall University offers a supportive environment for students who wish to pursue advanced training in sociology or anthropology as well as those for whom the Master's level is the final degree. The curriculum is designed to provide our students with a wide range of options in pursuit of their academic and professional goals and interests, while also providing solid training in core foundational aspects of the two disciplines. Students learn both qualitative and quantitative research methods and are exposed to a variety of subfields and theoretical perspectives. Faculty core strengths include: theory, social movements and social change, inequality, stratification, deviance, cultural diversity, social interaction and group processes, migration, world systems/globalization, social institutions (religion, family, work and occupations, health care, sports, politics and the economy), criminology, gerontology, leisure and recreation, qualitative and quantitative research methods, and advanced statistical analysis.

Admission Requirements

Interested students may seek admission to the program for full-time or part-time studies, with preferred entrance in the fall semester of each year. To receive full consideration all application materials must be received by the Graduate Admissions Office by April 15 for the Fall semester and by November 15 for the Spring semester. Please note that while the GRE is not required for admission into the program, students are strongly encouraged to take the exam.

Applicants should follow the admission process outlined in the Graduate Catalog or at the Graduate Admissions website at www.marshall.edu/graduate/admissions/how-to-apply-for-admission (http://www.marshall.edu/graduate/admissions/how-to-apply-for-admission/).

In addition to the materials described in the catalog and on the website, applicants for regular admission to the Master of Arts in Sociology must submit to the Graduate Admissions Office:

- a personal statement describing interests in the program and future plans;
- international students must provide evidence of English language proficiency such as the TOEFL;
- evidence of a minimum of 12 credit hours of undergraduate sociology coursework;
- undergraduate grade point average (GPA), overall and in sociology;
- a writing sample: a copy of one paper (10-25 pages) from an undergraduate course, preferably a sociology or anthropology course; and
- two letters of recommendation from persons familiar with the applicant's academic or professional competence.

Admission to the program is offered to a limited number of qualified students demonstrating academic excellence and professional promise. Applicants who have submitted a complete application and fulfill the requirements stated above will be considered for full admission. The Sociology program may admit applicants provisionally, on a limited basis, at the discretion of the program. The Sociology program may admit applicants on a conditional basis.

Program Requirements

In addition to regular courses and seminars, students are expected to contribute to their professional growth through interaction with the faculty and other graduate students as well as from independent study and reading. A student must earn at least a 3.0 GPA in all Sociology and Anthropology classes as a requirement for graduation. A student who receives a second grade of *C* or below while pursuing the M.A. in Sociology must review her/his academic plans with the department's

graduate program director; this review may result in the student being dismissed from the program.

The Sociology Master of Arts degree requires the completion of 33 hours of coursework plus SOC 681 Thesis for the Thesis Option, or completion of 36 hours of coursework plus SOC 679 Problem Report for the Non-Thesis Option. The curriculum is structured around a set of core requirements and a set of disciplinary focus areas that together provide a strong foundation in sociological theory, research methods and data analysis. At least half of the minimum required hours for the student's master's degree must be earned in classes numbered 600 or above. Students, in consultation with their advisor, must complete an official "Plan of Study" during their first semester or before completion of 12 credit hours. The Plan of Study must be approved by the graduate program director in the department before submission for approval to the college.

Plan of Study

Core Requirements

All students are required to complete 15 hours of core courses:

Code	Title	Credit Hours
Core Courses		
SOC 600	Classical Sociological Theory	3
SOC 601	Contemp Sociological Theory	3
SOC 605	Qual Res Methods and Analysis [1]	3
SOC 606	Quantitative Res Meth Analysis [1]	3
SOC 609	Professional Development	3
Total Credit Hours		**15**

[1] SOC 605 Qual Res Methods and Analysis and SOC 606 Quantitative Res Meth Analysis is a two-course research methods sequence that should be completed by all students during the first academic year in the graduate program if possible (or within the first 12 graduate credit hours for part-time students). Exceptions are made for students who must take prerequisite courses before enrolling in this sequence.

Electives

(18 hours for thesis option and 21 hours for non-thesis option)

The department offers a variety of electives which are bundled in four disciplinary focus areas. Graduate level courses from other departments may be taken with approval from the Graduate Program Director and the course instructor.

To guarantee breadth of education, all students must take courses from more than one focus area. Note that some classes contribute to more than one focus area; a student can count such classes in more than one focus area for this requirement, but must of course still meet the requirement for the total number of credit hours.

To guarantee depth, students also have to take more courses of a particular focus area or declare a minor.

Thesis option: Thesis related to one focus, one course from each of the three remaining focus areas (9 hrs.).

Non-thesis option: One course from each focus area 1 through 4 (12 hours) and additional courses from one primary area, or declare a minor (9 hrs.).

Code	Title	Credit Hours
Focus Area 1: Organizations and Institutions		
SOC 508	The Family	3
SOC 530	Women In Sports	3
SOC 533	Sociology of Work	3
SOC 550	Sociology of Religion	3
SOC 580	Special Topics (dependent on content)	1-4
SOC 668	Seminar (dependent on content)	1-3
Focus Area 2: Stratification and Diversity		
SOC 523	Social Class, Power & Conflict	3
SOC 525	Race and Ethnicity	3
SOC 530	Women In Sports	3
SOC 532	Sociology of Applachia	3
SOC 555	Sociology of Sex and Gender	3
SOC 655	Feminist Social Theory	3
SOC 580	Special Topics (dependent on content)	1-4
SOC 668	Seminar (dependent on content)	1-3
Focus Area 3: Demography, Health, and Human Environments		
SOC 501	Population and Human Ecology	3
SOC 528	Medical Sociology	3
SOC 532	Sociology of Applachia	3
SOC 540	Intro to the Soc of Aging	3
SOC 542	Urban Sociology	3
SOC 552	Soc Of Death & Dying	3
SOC 565	Environment and Society	3
SOC 640	Problems Aging Society	3
SOC 580	Special Topics (dependent on content)	1-4
SOC 668	Seminar (dependent on content)	1-3
Focus Area 4: Social Problems and Collective Behavior		
SOC 513	Social Movements & Soc Change	3
SOC 520	Criminology	3
SOC 560	The Holocaust and Genocide	3
SOC 565	Environment and Society	3
SOC 602	Contemp Social Change	3
SOC 620	Criminology	3
SOC 640	Problems Aging Society	3
SOC 580	Special Topics (dependent on content)	1-4
SOC 668	Seminar (dependent on content)	1-3

Sociology, Minor

A minor in sociology is earned by taking at least 9 credit hours in courses at the 500- or 600- level in Sociology as approved by the student's advisor and the Graduate Program Director in the Department of Sociology and Anthropology.

Women's Studies, Graduate Certificate

Program Description

Scholarly work on women and gender has influenced all levels of academic discourse. For example, one of the most important dimensions of globalization has been the heightened awareness of the importance of women in societal development.

Applicants must have a bachelor's degree from an accepted, accredited institution.

For additional information, contact the Humanities Program.

College of Science

Contacts: Dr. Wesley Stites, Dean ; Dr. Anna Mummert, Associate Dean
Website: http://www.marshall.edu/cos/

cos@marshall.edu

Programs

- Biological Sciences M.A., Accelerated Graduate Degree (p. 316)
- Biological Sciences M.S., Accelerated Graduate Degree (p. 316)
- Biological Sciences, M.A. (p. 317)
- Biological Sciences, M.S. (p. 318)
- Chemistry, M.S. (p. 319)
- Crime Scene Investigation, Emphasis (p. 325)
- Criminal Justice, Accelerated Graduate Degree (p. 320)
- Criminal Justice, M.S. (p. 321)
- Criminal Justice, Minor (p. 322)
- Digital Forensics, Emphasis (p. 325)
- Digital Forensics, Graduate Certificate (p. 322)
- DNA Analysis, Emphasis (p. 325)
- Forensic Chemistry, Emphasis (p. 326)
- Forensic Science, M.S. (p. 323)
- Geobiophysical Science, Minor (p. 326)
- Home (https://catalog.marshall.edu/)
- Mathematics, M.S. (p. 326)
- Mathematics, Minor (p. 328)
- Natural Resources and the Environment, M.S. (p. 328)
- Physical and Applied Sciences, Geology Emphasis (p. 330)
- Physical and Applied Sciences, M.S. (p. 329)
- Physics for Teachers, Emphasis (p. 330)
- Physics, Accelerated Graduate Degree (p. 331)
- Physics, M.S. (p. 331)
- Statistics, Emphasis (p. 328)

Courses

Biological Science

BSC 501 Ichthyology **4 Credit hours**
Anatomy, physiology, ecology, zoogeography, economic importance and classification of major groups and representative local species of fishes. 2 lec-2 lab and field.
Grade Mode: Normal Grading Mode

BSC 504 Cellular Physiology **3 Credit hours**
In depth analysis of the physiological and molecular processes that underly the function of cells, using examples from diverse taxa. Focus on biomedical and biotechnological implications.
Grade Mode: Normal Grading Mode

BSC 505 Economic Botany **3 Credit hours**
Plants used by man for food, ornamental purposes, building materials, textiles and other industrial purposes: economic importance of conservation. No laboratory.
Grade Mode: Normal Grading Mode

BSC 508 Ornithology **4 Credit hours**
An introduction to avian biology: Identification, distribution, migration and breeding activities of birds. 2 lec-4 lab.
Grade Mode: Normal Grading Mode

BSC 509 Mammalogy **4 Credit hours**
A study of the structural features, evolution and classification of the mammals; other topics will include ecology, zoogeography, behavior, reproductive strategies, physiological adaptations to extreme environments and economic aspects. 2 lec-2 lab.
Grade Mode: Normal Grading Mode

BSC 510 Remote Sensing/GIS Appl **4 Credit hours**
A study of the physical systems for collecting remotely sensed data. Statistical/spatial analysis and modeling using image processing/geographic information/spatial computer software systems with earth resources applications.
Grade Mode: Normal Grading Mode

BSC 511 Dgtl Image Proc/GIS Model **4 Credit hours**
A study of image processing/geographic information/spatial analysis systems, concurrent and parallel image processing 3-D modeling scenarios utilizing geophysical data for computer simulation modeling.
Grade Mode: Normal Grading Mode

BSC 513 Prin of Organic Evolution **3 Credit hours**
The facts and possible mechanisms underlying the unity and diversity of life with emphasis on Neo-Darwiniam concepts of the role of species in evolutionary phenomena.
Grade Mode: Normal Grading Mode

BSC 516 Plant Taxonomy **4 Credit hours**
Identification and classification of seed plants and ferns of eastern United States. Readings in history and principles of taxonomy, rules of nomenclature and related topics. 2 lec-4 lab.
Grade Mode: Normal Grading Mode

BSC 517 Biostatistics **3 Credit hours**
Statistical skills for biological/biomedical research, with emphasis on applications.Experimental design/survey sampling, estimation/hypothesis testing procedures, regression, AVONA, multiple comparisons. Implementation using statistical software such as SAS, BMDP.
Grade Mode: Normal Grading Mode

BSC 520 Plant Physiology **4 Credit hours**
Experimental study of plant life processes to include applicable biophysical and biochemical principles. 2 lec-4 lab.
Grade Mode: Normal Grading Mode

BSC 521 Phycology **4 Credit hours**
Taxonomy and morphology of algae. Techniques used in the study of algae with emphasis upon application of ecological principles to current water quality problems. 2 lec-4 lab.
Grade Mode: Normal Grading Mode

BSC 522 Animal Physiology **3 Credit hours**
A comparative study of physiological principles in animal cells, organs, and systems. Focus on animal's reactions to their environment, and how comparative physiology applies to natural ecosystems and human health.
Grade Mode: Normal Grading Mode

BSC 524 Animal Parasitology **4 Credit hours**
Morphology, life histories, classification, and host relationships of common parasites. 2 lec-4 lab.
Grade Mode: Normal Grading Mode

BSC 525 Systematics **3 Credit hours**
Biosystematics is a unifying discipline that combines taxonomy (collecting, describing, and naming organisms), phylogenetics (evolutionary relationships among species), and classification (organization of taxa into groups which ultimately reflect evolutionary relationship.
Grade Mode: Normal Grading Mode

BSC 528 Neuroscience **3 Credit hours**
The fundamentals of cellular and systems neuroscience, with application towards understanding current research and biomedical problems.
Grade Mode: Normal Grading Mode

BSC 530 Plant Ecology **4 Credit hours**
The study of plants and their interactions with their environment at different levels of ecological organization: individuals, populations, communities, and ecosystems. Emphasis on quantitative analysis of ecological data.
Grade Mode: Normal Grading Mode

BSC 531 Limnology **4 Credit hours**
The study of inland waters; ecological factors affecting lake and stream productivity and various aquatic communities. 2 lec-4 lab.
Grade Mode: Normal Grading Mode

BSC 536 Vertebrate Embryology **4 Credit hours**
Vertebrate development based chiefly on frog, chick, pig, mouse and human embryos.
Grade Mode: Normal Grading Mode

BSC 538 Emerging Infectious Diseases **3 Credit hours**
Introduces students to infections diseases that are either newly emergent or have returned to prominence within the last decade.
Grade Mode: Normal Grading Mode

BSC 543 Microbial Genetics **3 Credit hours**
Microbial Genetics covers the essential functions of DNA replication and gene expression in prokaryotic cells. The course includes molecular genetics of bacteria and phages, bioinformatics and discussion of laboratory techniques.
Grade Mode: Normal Grading Mode

BSC 545 Microbial Ecology **3 Credit hours**
This course introduces students to the vital roles that microbes play in sustaining life on earth. Includes both theoretical and practical concepts ranging from the origin of life to biodegradation.
Grade Mode: Normal Grading Mode

BSC 550 Molecular Biology **3 Credit hours**
Advanced principles in molecular function emphasizing current research using recombinant DNA methodology.
Grade Mode: Normal Grading Mode

BSC 551 Molecular Medicine **3 Credit hours**
This course focuses on molecular biology as applied to the causes, diagnosis and treatment of select human and veterinary diseases. Therapies that are new and still in clinical trials will also be covered.
Grade Mode: Normal Grading Mode

BSC 556 Genes and Development **3 Credit hours**
An in depth study of the genetic mechanisms of complex organismal development including cell specification, induction and morphogenesis.
Grade Mode: Normal Grading Mode

BSC 560 Conservation Biology **3 Credit hours**
This course focuses on the North American model of wildlife conservation (and its history), principles of biology diversity, threats to habitats and species of concern, adn conservation policy.
Grade Mode: Normal Grading Mode

BSC 565 Biology of Reptiles **4 Credit hours**
A survey of the reptiles of the world with special emphasis placed on forms resident to West Virginia, including aspects of ecology, physiology, zoogeography, anatomy, taxonomy, and behavior.
Grade Mode: Normal Grading Mode

BSC 566 Biology of Amphibians **4 Credit hours**
A survey of the amphibians of the world with special emphasis placed on forms resident to West Virginia, including aspects of ecology, physiology, zoogeography, anatomy, taxonomy, and behavior.
Grade Mode: Normal Grading Mode

BSC 568 Wildlife Ecol and Mgt **4 Credit hours**
A study of ecological field techniques with emphasis on wildlife management and field ecology. Applications of ecological theory to managing, monitoring and assessing wildlife populations and habitats through experiential learning.
Grade Mode: Normal Grading Mode

BSC 580 Special Topics **1-4 Credit hours**
(PR: Permission)
Grade Mode: Normal Grading Mode

BSC 581 Special Topics **1-4 Credit hours**
(PR: Permission)
Grade Mode: Normal Grading Mode

BSC 582 Special Topics **1-4 Credit hours**
(PR: Permission)
Grade Mode: Normal Grading Mode

BSC 583 Special Topics **1-4 Credit hours**
(PR: Permission)
Grade Mode: Normal Grading Mode

BSC 585 Independent Study **1-4 Credit hours**
(PR: Permission)
Attributes: Onsite Learning Experience
Grade Mode: Credit/No Credit Grade Only

BSC 586 Independent Study **1-4 Credit hours**
(PR: Permission)
Attributes: Onsite Learning Experience
Grade Mode: Credit/No Credit Grade Only

BSC 587 Independent Study **1-4 Credit hours**
(PR: Permission)
Attributes: Onsite Learning Experience
Grade Mode: Credit/No Credit Grade Only

BSC 588 Independent Study **1-4 Credit hours**
(PR: Permission)
Attributes: Onsite Learning Experience
Grade Mode: Credit/No Credit Grade Only

BSC 601 Vertebrate Embryology **4 Credit hours**
Vertebrate development based on frog, chick and pig embryos. 2 lec-4 lab.
Grade Mode: Normal Grading Mode

BSC 608 Plant Growth & Developmnt **4 Credit hours**
Comprehensive advanced study of correlative growth in plants with emphasis on germination, dormancy, growth substances and physiological phenomena associated with phases of development.
Grade Mode: Normal Grading Mode

BSC 610 Adv Vert Morphology **3 Credit hours**
AVM is an intensive, laboratory-based course in vertebrate morphology. Core responsibilities include detailed dissection and comparative cranial osteology. Each student must complete an independent dissection project and term paper.
Grade Mode: Normal Grading Mode

BSC 620 Taxonomy Vascular Plants **1-2 Credit hours**
Field studies in the taxonomy of higher plants. (Limited to 4 hours credit per student).
Co-req: BSC 622
Grade Mode: Normal Grading Mode

BSC 621 Taxonomy Vascular Plants **1-2 Credit hours**
Field studies in the taxonomy of higher plants. (Limited to 4 hours credit per student).
Grade Mode: Normal Grading Mode

BSC 622 Taxonomy Vascular Plants **1-2 Credit hours**
Field studies in the taxonomy of higher plants. (Limited to 4 hours credit per student).
Co-req: BSC 620
Grade Mode: Normal Grading Mode

BSC 625 Advanced Physiology **4 Credit hours**
Lecture, current literature and introduction to research in physiological systems. 3 lec-3 lab.
Grade Mode: Normal Grading Mode

BSC 631 Animal Ecology **4 Credit hours**
A study of population and behavior ecology; community dynamics and field techniques. 2 lec-4 lab.
Grade Mode: Normal Grading Mode

BSC 632 Data Analysis in Bio Sciences **4 Credit hours**
Example-led lectures and practical sessions to build proficiency in analyzing real data in biological sciences using R. Includes data wrangling, visualization, and mapping with emphasis on reproducible research practices.
Grade Mode: Normal Grading Mode

BSC 640 Cellular/Molecular BioMedicine **4 Credit hours**
This course users an integrated lecture/journal club format to familiarize students with advanced techniques and multidisciplinary approaches in biomedical research. Intended for science and biomedical graduate students.
Grade Mode: Normal Grading Mode

BSC 644 Quantitative Ecology **3 Credit hours**
An introduction to statistical analyses using presence absence, mark-recapture, and count data to estimate population parameters, such as occupancy and survival.
Grade Mode: Normal Grading Mode

BSC 648 Landscape Ecology **3 Credit hours**
Landscape ecology is the study of landscapes at multiple scales with a focus on discerning how landscape structure affects ecological processes. Students will learn foundational concepts, methods, and computer applications.
Grade Mode: Normal Grading Mode

BSC 649 Wetland Ecology **3 Credit hours**
Grade Mode: Normal Grading Mode

BSC 650 Special Problems **1-3 Credit hours**
By permission of adviser.
Attributes: Onsite Learning Experience
Grade Mode: Credit/No Credit Grade Only

BSC 651 Special Problems **1-3 Credit hours**
By permission of adviser.
Grade Mode: Credit/No Credit Grade Only

BSC 652 Special Problems **1-3 Credit hours**
By permission of adviser.
Grade Mode: Credit/No Credit Grade Only

BSC 660 Seminar I **2 Credit hours**
Topics relevant to preparation for a career in the life sciences including: literature mining and interpretation, scientific ethics, preparation and delivery of scientific presentations, and career development tools.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

BSC 661 Topics in Biological Sciences **2 Credit hours**
In depth group discussion of current biological issues.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

BSC 662 Seminar II **1 Credit hour**
Oral presentation of individual topics.
Pre-req: BSC 660 with a minimum grade of C.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

BSC 679 Problem Report **1-4 Credit hours**
Preparation and completion of a written report from experimental or field research in biological sciences. (PR: permission)
Attributes: Onsite Learning Experience
Grade Mode: Normal Grading Mode

BSC 680 Special Topics **1-4 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

BSC 681 Thesis **1-9 Credit hours**
By permission of adviser.
Attributes: No Textbook Required, Onsite Learning Experience, Thesis
Grade Mode: Normal Grading Mode

BSC 716 Adv Cell Phys Nurse Anesthesia **2 Credit hours**
Study of structure amd function of human cells, including protein synthesis, metabolism and reproduction. Study of genetic disorders and anesthesia. Study of anti-cancer drugs. Analyze types and rules of various cell membrane receptors on anesthesia process.
Grade Mode: Normal Grading Mode

BSC 717 Adv Ana Phy Path Nurse 1 **3 Credit hours**
Anatomy, Physiology, pathophysiology and anesthetic considerations related to the respiratory and renal systems.
Grade Mode: Normal Grading Mode

BSC 718 Adv Ana Phy Path Nurse 2 **3 Credit hours**
Anatomy, physiology, pathophysiology and anesthetic considerations related to the cardiovascular system.
Grade Mode: Normal Grading Mode

BSC 719 Adv Ana Phy Path Nurse 3 **3 Credit hours**
Anatomy, physiology, pathophysiology and anesthetic considerations related to the nervous and endocrine systems.
Grade Mode: Normal Grading Mode

Chemistry

CHM 511 Modern Instrument Methods **4 Credit hours**
This course investigates the theory and functional aspects of modern analytical instrumentation. Emphasis is placed on the components of instruments and the applicability of various techniques to specific analytical problems.
Pre-req: CHM 307 with a minimum grade of C or CHM 357 with a minimum grade of C.
Grade Mode: Normal Grading Mode

CHM 525 Brownie, Beer, Bacon Chemistry **3 Credit hours**
The application of biochemistry and physical chemistry to foods and fermented beverages. Kitchen activities and tastings are employed to demonstrate chemical principles.
Grade Mode: Normal Grading Mode

CHM 540 Thermodynamics **3 Credit hours**
An introduction to chemical thermodynamics and statistical mechanics. 3 lec.
Grade Mode: Normal Grading Mode

CHM 542 Quantum Mechanics **3 Credit hours**
An introductory course in quantum mechanics. 3 lec.
Grade Mode: Normal Grading Mode

CHM 548 Adv Inorganic Chemistry I **4 Credit hours**
Study of physical and chemical properties and periodic relationships of inorganic materials. 3 lec, 2 lab (PR: CHM 356, CHM 307, or CHM 357)
Grade Mode: Normal Grading Mode

CHM 549 Adv Inorganic Chem II **3 Credit hours**
A detailed consideration of bonding, structure, reaction rates and equilibrium involving inorganic materials. 3 lec.
Grade Mode: Normal Grading Mode

CHM 551 Biological Mass Spectrometry **4 Credit hours**
This course investigates the theory and applications of mass spectrometry. It includes a laboratory component in which you will learn to run the mass spectrometers and interpret mass spectral results.
Grade Mode: Normal Grading Mode

CHM 565 Adv Organic Chemistry I **3 Credit hours**
Studies of the dynamics of organic reactions with emphasis on mechanisms and stereo chemistry. 3 lec.
Grade Mode: Normal Grading Mode

CHM 566 Adv Organic Chemistry II **3 Credit hours**
A continuation of Chemistry 565 with emphasis on synthetic methods. 3 lec.
Pre-req: CHM 565.
Grade Mode: Normal Grading Mode

CHM 567 Intermediate Biochemistry **3 Credit hours**
A survey course including introduction to basic biochemical concepts, bioenergetics, and information transfer.
Pre-req: CHM 365 with a minimum grade of C or BSC 365 with a minimum grade of C.
Grade Mode: Normal Grading Mode

CHM 574 Introductory Biochemistry **3 Credit hours**
A survey course including introduction to basic biochemical concepts, metabolic pathways, and bioenergetics.
Grade Mode: Normal Grading Mode

CHM 580 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CHM 581 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CHM 582 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CHM 583 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CHM 585 Independent Study **1-4 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

CHM 586 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CHM 587 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CHM 588 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CHM 604 Theories Analytical Chem **2 Credit hours**
Offered on demand.
Pre-req: CHM 556.
Grade Mode: Normal Grading Mode

CHM 607 Theoretical Organic Chem **2 Credit hours**
The application of quantitative methods to problems in structure and dynamics. 2 lec.
Pre-req: CHM 565.
Grade Mode: Normal Grading Mode

CHM 618 Kinetics **3 Credit hours**
An advanced study of reaction rates and mechanisms.
Grade Mode: Normal Grading Mode

CHM 628 Special Topics-Inorganic **1-3 Credit hours**
Offered on demand.
Grade Mode: Normal Grading Mode

CHM 629 Special Topics-Organic **1-3 Credit hours**
Offered on demand.
Grade Mode: Normal Grading Mode

CHM 630 Special Topics-Physical **1-3 Credit hours**
Offered on demand.
Grade Mode: Normal Grading Mode

CHM 631 Seminar **1 Credit hour**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

CHM 632 Seminar **1 Credit hour**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

CHM 678 Applied Micr in Research **4 Credit hours**
A combined lecture/lab/self-motivated research course that results in a microscopy based project to be presented by each student at an open forum (can augment thesis project).
Grade Mode: Normal Grading Mode

CHM 679 Problem Report **3 Credit hours**
Preparation of a comprehensive written report on a topic in Chemistry of current importance. Registration only by permission of Department.
Grade Mode: Normal Grading Mode

CHM 682 Research **1-12 Credit hours**
Credit in the course is earned by pursuing a directed original investigation in a field of chemistry. Twelve semester hours credit in research are applied toward the M.S. degree. Students may sign for one or more credit hurs per semester depending upon the time to be spent on research. A grade of PR may be reported at the close of each term or semester.
Attributes: Onsite Learning Experience, Thesis
Grade Mode: Normal Grading Mode

CHM 685 Independent Study **1-4 Credit hours**
Individual study of topics not offered in regularly scheduled classes.
Grade Mode: Normal Grading Mode

CHM 686 Independent Study **1-4 Credit hours**
Individual study of topics not offered in regularly scheduled classes.
Grade Mode: Normal Grading Mode

CHM 687 Independent Study **1-4 Credit hours**
Individual study of topics not offered in regularly scheduled classes.
Grade Mode: Normal Grading Mode

CHM 688 Independent Study **1-4 Credit hours**
Individual studt of topics not offered in regularly scheduled classes.
Grade Mode: Normal Grading Mode

CHM 723 Chemistry and Physics **3 Credit hours**
Scientific prinicples and clinical application of properties of matter, gas laws, vaporization, fluid dynamics, explosion hazards, electrical safety, acid-base balance, blood gas analysis, biochemistry in anesthesia, mechanisms of narcosis. Analyze the molecular basis for molecular bonding, stereochemistry, protein confirmation, enzyme-substrate reactions.
Grade Mode: Normal Grading Mode

Criminal Justice

CJ 500 Applied Ethics in CJ **3 Credit hours**
Examines ethical issues and moral dilemmas faced by criminal justice professionals. Traditional ethical theories and practices designed to foster public trust in the criminal justice system are examined and applied.
Grade Mode: Normal Grading Mode

CJ 503 Understanding Cybercrime **3 Credit hours**
Examination of hacking, piracy, cyber stalking, cyber bullying, identity theft, and other cybercrimes through the lens of various criminological theories with an emphasis on research methodology and criminal justice policy.
Grade Mode: Normal Grading Mode

CJ 504 Theoretical Criminology **3 Credit hours**
A critical analysis of the major criminological theories and their empirical foundations. Current theory an research receive greater emphasis than historical development.
Grade Mode: Normal Grading Mode

CJ 505 Women and the CJS **3 Credit hours**
Examines factors surrounding women and the criminal justice system from a theoretical and practical perspective. Explores feminist ideologies, plus women as victims, offenders, and professionals in the justice system.
Grade Mode: Normal Grading Mode

CJ 506 Race, Ethnicity, Class,& Crime **3 Credit hours**
Examines the impact and relationship of race, ethnicity, and social class within the criminal justice system.
Grade Mode: Normal Grading Mode

CJ 510 Police Administration **3 Credit hours**
This course studies the functions and activities of police agencies, including police department organizations and responsibilities of police administrators. Current administrative and management techniques and theories are also explored.
Grade Mode: Normal Grading Mode

CJ 515 Rural Criminology **3 Credit hours**
Critical analysis of rural crime and the criminological sub-field of rural criminology. Examines the economic, racial, and cultural conditions in rural America which reproduce exploitive economies and overall destructive behaviors.
Grade Mode: Normal Grading Mode

CJ 516 Terrorism **3 Credit hours**
This course provides students with a working knowledge of the history of terrorism, the current status of terrorist groups, terrorism tactics, and methods to counteract terrorism.
Grade Mode: Normal Grading Mode

CJ 517 CJ Decision Making **3 Credit hours**
Focuses on theories of criminal justice decision-making and decision points across the criminal justice system. Topics include the decision to report crime, police decisions, jury decisions, and sentencing decisions.
Grade Mode: Normal Grading Mode

CJ 518 Crime and Pop Culture **3 Credit hours**
A critical examination of the popular culture presentations of crime, offenders, victims, and the criminal justice processes.
Grade Mode: Normal Grading Mode

CJ 520 Homeland Security **3 Credit hours**
This course takes a comprehensive approach to studying the facets of homeland security, the complexity of homeland security and terrorism, defeating terrorists, and Homeland Security's response to terrorist threats.
Grade Mode: Normal Grading Mode

CJ 522 Law of Evidence **3 Credit hours**
Leading rules and principles of exclusion and selection; burden of proof, nature and effect of presumptions; proof of authenticity and contents of writing; examinations competency and privilege of witnesses.
Grade Mode: Normal Grading Mode

CJ 526 Civil Liability Issues CJ **3 Credit hours**
This course examines various theories of civil liability that relate to Criminal Justice professionals, the civil justice system, and preventing and defending civil liability claims.
Grade Mode: Normal Grading Mode

CJ 528 Qualitative Criminology **3 Credit hours**
Presentation of the practice of qualitative research including the philosophical underpinnings of qualitative research, research questions and design, ethics, and data analysis.
Grade Mode: Normal Grading Mode

CJ 529 Environmental Criminology **3 Credit hours**
Explores theoretical, methodological, and practical approaches about environmental crime from a critical lens.
Grade Mode: Normal Grading Mode

CJ 533 Correctional Administration **3 Credit hours**
Objectives of correctional institutions; records; personnel, program development, security; educational programs.
Grade Mode: Normal Grading Mode

CJ 540 CJ Response to Dom Violence **3 Credit hours**
This course focuses on the legal response to child abuse, domestic violence, and elder abuse. Examines dynamics of abusive relationships, the effects of victimization, and current research on these issues.
Grade Mode: Normal Grading Mode

CJ 553 Seminar Crime Prevention **3 Credit hours**
This course examines theory, operation, and evaluation of crime prevention as a function of the criminal justice system. Techniques for crime prevention are analyzed from various orientations, including environmental design.
Grade Mode: Normal Grading Mode

CJ 560 Miscarriages of Justice **3 Credit hours**
This course provides a critical examination of the processes and procedures used by police, prosecutors, defense attorneys, judges, and corrections agents which may potentially produce errors or "miscarriages" of justice.
Grade Mode: Normal Grading Mode

CJ 580 Special Topics **1-4 Credit hours**
A study of special interest criminal justice topics under the supervision of a qualified faculty member.
Grade Mode: Normal Grading Mode

CJ 581 Special Topics **1-4 Credit hours**
A study of special interest criminal justice topics under the supervision of a qualified faculty member.
Grade Mode: Normal Grading Mode

CJ 582 Special Topics **1-4 Credit hours**
A study of special interest criminal justice topics under the supervision of a qualified faculty member.
Grade Mode: Normal Grading Mode

CJ 583 Special Topics **1-4 Credit hours**
A study of special interest criminal justice topics under the supervision of a qualified faculty member.
Grade Mode: Normal Grading Mode

CJ 585 Independent Study **1-4 Credit hours**
This course permits the student to undertake supervised research (field or library) in any area where there is no appropriate course.
Grade Mode: Normal Grading Mode

CJ 586 Independent Study **1-4 Credit hours**
This course permits the student to undertake supervised research (field or library) in any area where there is no appropriate course.
Grade Mode: Normal Grading Mode

CJ 587 Independent Study **1-4 Credit hours**
This course permits the student to undertake supervised research (field or library) in any area where there is no appropriate course.
Grade Mode: Normal Grading Mode

CJ 588 Independent Study **1-4 Credit hours**
This course permits the student to undertake supervised research (field or library) in any area where there is no appropriate course.
Grade Mode: Normal Grading Mode

CJ 590 Internship **1-6 Credit hours**
The placement of an individual into a criminal justice agency (police, probation, courts, jails) to observe and participate in its operation. Grading is CR/NC.
Attributes: Onsite Learning Experience
Grade Mode: Credit/No Credit Grade Only

CJ 601 Seminar Criminal Justice **3 Credit hours**
A forum to acquaint students, faculty and guests with each others' research and experiences in dealing with criminal justice issues.
Grade Mode: Normal Grading Mode

CJ 604 Adv Theory Criminal Just **3 Credit hours**
Course is designed to provide the student already familiar with the basic concepts of criminological theory the opportunity to examine in depth a selected set of theories.
Grade Mode: Normal Grading Mode

CJ 621 Contemporary Law & Society **3 Credit hours**
A review of contemporary legislation and court decisions relating to its impact on the justice system, justice officials, and members of society.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

CJ 655 Research Methods in CJ **3 Credit hours**
Elements of scientific research; interaction between research and theory; use of data processing resources.
Grade Mode: Normal Grading Mode

CJ 656 Data Applications in CJ **3 Credit hours**
Principles of data management, statistics, and program evaluation with an emphasis on their application in the criminal justice system.
Pre-req: CJ 655 with a minimum grade of C.
Grade Mode: Normal Grading Mode

CJ 679 Problem Report **3 Credit hours**
The preparation of a written report on a research problem or field study in Criminal Justice. (PR: CJ 655 and Permission)
Pre-req: CJ 655.
Grade Mode: Normal Grading Mode

CJ 681 Thesis **1-6 Credit hours**
Attributes: Onsite Learning Experience, Thesis
Grade Mode: Credit/No Credit Grade Only

CJ 699 Capstone Experience **3 Credit hours**
A culminating experience where students will apply knowledge and skills learned in their program of study to create, in collaboration with an agency or organization in the field, an original, scholarly work that addresses a current issue of concern.
Pre-req: CJ 601 and CJ 604 and CJ 655 and CJ 656.
Attributes: Onsite Learning Experience
Grade Mode: Normal Grading Mode

Forensic Science

FSC 600 Molecular Biology **3 Credit hours**
A study of the molecular biology of the cell and its organelles, cell interactions, and differentiation.
Grade Mode: Normal Grading Mode

FSC 603 Genetics-DNA Lab **1 Credit hour**
Laboratory to be offered in conjunction with FSC 604 Genetics and DNA Technology stressing techniques and methods required for DNA analysis used in forensic case investigations, in CODIS laboratories and in paternity testing.
Grade Mode: Normal Grading Mode

FSC 604 Genetics & DNA Technology **3 Credit hours**
A comprehensive lecture series that covers the genetics and biochemistry of DNA to include the analysis, ethical considerations and quality assurance techniques used to analyze DNA for identification purposes. This course serves as a core course in the forensic science curriculum.
Grade Mode: Normal Grading Mode

FSC 605 F S Digital Imaging **3 Credit hours**
Introductory course in digital image processing. Covers techniques used in forensic laboratory to enhance, analyze, and catalog digital images. Instruction in lab setting.
Grade Mode: Normal Grading Mode

FSC 606 Crime Scene/Death Investiga **3 Credit hours**
Establishes foundations and techniques for proper crime scene investigation with or without a victim's body. Logical approach for collecting evidence and documenting scene and collection process.
Grade Mode: Normal Grading Mode

FSC 607 Blood Stain Pattern Analysis **3 Credit hours**
A comprehensive bloodstain pattern analysis course including bullet trajectory, courtroom testimony, and report writing. This course is taught as a combination of lectures, laboratories, and practical exercises.
Pre-req: FSC 606.
Grade Mode: Normal Grading Mode

FSC 608 Forensic Toxicology **3 Credit hours**
An in-depth analysis of both clinical and forensic aspects of toxicology from the viewpoint of the forensic and medical examiner's toxicology laboratories.
Grade Mode: Normal Grading Mode

FSC 609 Network Forensics **3 Credit hours**
Teaches the basics of how computers and networks function, how they can be involved in crimes as well as used as a source of evidence.
Grade Mode: Normal Grading Mode

FSC 610 Bioterrorism: Forensics **3 Credit hours**
Course traces the historical development, current status, and future threats of bioterrorism in the U.S. and on a global scale. Issues adressed include microbiology, surveillance, detection and post-event investigation.
Grade Mode: Normal Grading Mode

FSC 612 Intro Foren Micro/Trace **2 Credit hours**
Introduction to various types of microscopy used in forensics, including scanning electron microscopy, light and fluorescence microscopy and polarizing microscopy. Photographic techniques used for documentation will also be discussed.
Grade Mode: Normal Grading Mode

FSC 615 Adv Crime Investigation **3 Credit hours**
This course addresses various areas of crime scene investigation not or minimally addressed in the FSC 606 introductory course. Topics include arson/explosives, body excavation, forensic entomology. advanced impression evidence, wound analysis.
Pre-req: FSC 606.
Grade Mode: Normal Grading Mode

FSC 617 Adv Crime Photo & Document **2 Credit hours**
This series of lectures and practical exercises introduces the student to sophisticated crime scene documentation techniques including sketching, surveying, photography and crime scene management techniques.
Pre-req: FSC 606.
Grade Mode: Normal Grading Mode

FSC 618 Forensic Comparative Sciences **2 Credit hours**
Introduction to comparative methods used by forensic scientists for analysis of fingerprints, questioned documents, and firearms.
Grade Mode: Normal Grading Mode

FSC 619 Forensic Statistics **3 Credit hours**
Basic theory of probability and statistics, odds from Bayes' theorem for transfer evidence, likelihood ratio, population and statistical genetics, statistical issues in paternity testing and mixtures, and presenting evidence.
Grade Mode: Normal Grading Mode

FSC 622 Forensic Analytical Chem **3 Credit hours**
Analytical chemistry instrumentation and methods used by forensic scientists for analysis of drugs, toxicology, fire debris, explosives, trace evidence and sample collection and processing.
Grade Mode: Normal Grading Mode

FSC 623 Forensic Chemistry Laboratory **1 Credit hour**
Laboratory practicum will develop skill set needed in the forensic analysis of physical evidence using standard methods and modern analytical instrumentation.
Grade Mode: Normal Grading Mode

FSC 624 Biochemistry: Forensic Science **4 Credit hours**
This comprehensive course in biochemistry focuses on concepts appropriate to forensic science and designed to meet forensic science educational standards at a national level.
Grade Mode: Normal Grading Mode

FSC 626 Advanced Drug Analysis **2 Credit hours**
Concentration on modern analytical methods used in the isolation and the identification of illicit drugs and their metabolities in biological samples and other forensic evidence. (PR: FSC 622 or permission of instructor)
Grade Mode: Normal Grading Mode

FSC 627 Human Genetics **2 Credit hours**
Human Genetics serves as an introduction to the study of heritable traits in humans and their molecular basis; basic genetic principles, statistics, and probability; population database analyses; principles of population genetics and laws of Mendelian genetics as they relate to human identification; application of paternity testing and identification of human remains; use of single nucleotide polymorphisms (SNPs) and mtDNA profiling in forensic applications.
Pre-req: FSC 624.
Grade Mode: Normal Grading Mode

FSC 628 Chem Analysis Trace Evidence **2 Credit hours**
A continuation of FSC 622 emphasizing additional types of evidence including paint, inks, fibers, and plastics. Methods Include pyrolysis-GCMS, micro-FTIR, GPC and capillary electrophoresis. Required course for Forensic Chemistry emphasis.
Grade Mode: Normal Grading Mode

FSC 629 Advanced DNA Technologies **2 Credit hours**
This course will provide advanced instruction in DNA technologies to assist in the preparation for a career in a forensic DNA laboratory.
Pre-req: (FSC 603 or FSC 643) and FSC 604.
Grade Mode: Normal Grading Mode

FSC 630 Internship **5 Credit hours**
A 10 week internship in a crime lab or other forensic science related research laboratory. Application of principles and techniques learned during first year of program.
Attributes: Onsite Learning Experience
Grade Mode: Normal Grading Mode

FSC 632 Found Fund Digital Forensics **3 Credit hours**
The course provides fundamental information to lay the foundation for the Digital Forensics Area of Emphasis. A range of topics includes laws and regulations relating to stored digital data, quality assurance and ethics in a digital laboratory, basic terminology, computer hardware and various storage media, software, including operating and file systems, and basics concepts of computer security. The course is taught primarily in a lecture format. Class discussions and participation in practical exercises supplement lectures.
Grade Mode: Normal Grading Mode

FSC 634 Comp Search & Seizure **3 Credit hours**
Topics covered in this course will expand upon material covered in FSC 632. Additional areas include affidavits and warrants, national information security concepts, evidence collection, transport and preservation, computer networks, e-mail traces, imaging of original evidence, introduction to forensic tools, Window registry, malware and spyware, virtualization and hand held devices. Classes are presented in a lecture format and culminates with a mock, digital crime scene exercise.
Grade Mode: Normal Grading Mode

FSC 636 Mobile Phone Forensics **2 Credit hours**
This course addresses the complexity and structure of modern smart phones and focuses on data evidence storage and extraction for criminal case investigations.
Grade Mode: Normal Grading Mode

FSC 640 Firearms Toolmarks I **1 Credit hour**
This course provides an enhanced learning experience designed to reduce the time to competency typical of the knowledge required component fo a firearms examiner training program. FSC 640 is the first of two firearms and toolmarks examiner training courses.
Grade Mode: Normal Grading Mode

FSC 641 Firearms Toolmarks II **1 Credit hour**
This course provides an enhanced learning experience designed to reduce the time to competency typical of the knowledge required component of a firearms examiner training program. FSC 641 is the second of two firearms and toolmarks examiner training courses.
Grade Mode: Normal Grading Mode

FSC 642 DNA Tech Assistance I **2 Credit hours**
The goal of the DNA Technical Assistance Program (DNA TAP) is to prepare select students for placement in host forensic laboratories for validation and evaluation research studies. The student undergoes acclerated lectures and intense hands-on laboratory exercises including analytical procedures, instrument training, and data analysis.
Grade Mode: Normal Grading Mode

FSC 643 DNA Tech Assistance II **2 Credit hours**
The goal of the DNA Technical Assistance Program (DNA TAP) is to prepare select students for placement in host forensic laboratories for validation and evaluation research studies. The student undergoes accelerated lectures and intense hands-on laboratory exercises including analytical procedures, instrument training, and data analysis.
Grade Mode: Normal Grading Mode

FSC 646 Lab Management **2 Credit hours**
This course provides a foundation in management theory, principles & application necessary for forensic scientists who aspire to assume future positions as crime lab supervisors, managers, technical leaders, quality managers, directors or other roles as leaders in their field. This course addresses management theory as well as its practical application to the crime laboratory setting from an ISO/IEC 17025 perspective.
Grade Mode: Normal Grading Mode

FSC 650 Special Topics **1-4 Credit hours**
Present course material on special areas of research or topics which are not routinely covered in existing courses.
Grade Mode: Normal Grading Mode

FSC 651 Special Topics **1-4 Credit hours**
Present course material on special areas of research or topics which are not routinely covered in existing courses.
Grade Mode: Normal Grading Mode

FSC 652 Special Topics **1-4 Credit hours**
Present course material on special areas of research or topics which are not routinely covered in existing courses.
Grade Mode: Normal Grading Mode

FSC 653 Special Topics **1-4 Credit hours**
Present course material on special areas of research or topics which are not routinely covered in existing courses.
Grade Mode: Normal Grading Mode

FSC 660 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

FSC 665 Legal Court in Forensic **3 Credit hours**
Covers the American legal system with specific emphasis on expert witnessing by forensic scientists. Mock trials provide experience in the courtroom.
Grade Mode: Normal Grading Mode

FSC 676 Adv Dig Evid Detect Recovery **2 Credit hours**
This advanced Digital Evidence Detection and Recovery course will provide an overview of the advanced procedures and techniques used by investigators working with digital evidence. This course will be taught as a combination of lectres, lab and practical exercises.
Grade Mode: Normal Grading Mode

FSC 679 Special Problems **1-4 Credit hours**
Students will be assigned specific areas of study for independent investigation. (PR: Consent of advisor)
Grade Mode: Normal Grading Mode

FSC 680 Seminar **1 Credit hour**
Faculty, student and guest speaker presentations of topics pertinent to forensic science.
Grade Mode: Normal Grading Mode

FSC 681 Thesis **1-6 Credit hours**
Research conducted in the laboratories at MU which is focused on a problem of forensic importance. The original research problem will be written up as a formal document and submitted as part of the requirements to fulfill a MS degree in the research track.
Attributes: Onsite Learning Experience, Thesis
Grade Mode: Normal Grading Mode

FSC 685 Intro Research **1-6 Credit hours**
Directed research which can be used to satisfy requirements for a Master's Degree in Forensic Science.
Grade Mode: Normal Grading Mode

Geology

GLY 510 Big Bend Field Excursion **2 Credit hours**
Field trip to Big Bend National Park, Texas to study the structure, stratigraphy, igneous geology, metamorphic geology, paleontology and natural history of this national park.
Grade Mode: Normal Grading Mode

GLY 518 Invertebrate Paleontology **4 Credit hours**
Taxonomy, morphology, and paleoecology of body and trace fossils representing the major invertebrate phyla; analysis and interpretation of faunal assemblages; evolution and extinction of species. (PR: GLY 201)
Grade Mode: Normal Grading Mode

GLY 520 Geochemistry **3 Credit hours**
Introduction to the principles of geochemistry. The application of chemistry to the study of the earth and to geologic problems.
Grade Mode: Normal Grading Mode

GLY 521 Petrology **4 Credit hours**
Identification and classification of igneous, sedimentary and metamorphic rocks, their origin and occurrence; their geologic and economic. 2 lec-4 lab.
Grade Mode: Normal Grading Mode

GLY 523 Sedimentary Petrography **4 Credit hours**
Megascopic and microscopic identification and a depositional and post-depositional interpretation of the sedimentary rocks. 3 lec-2 lab.
Grade Mode: Normal Grading Mode

GLY 527 Fossil Fuels **4 Credit hours**
The origin and occurrence of petroleum, coal, and natural gas; the relationships of accumulations to depositional environments and structural history; methods used in exploration, evaluation and recovery. 3 lec-2 lab.
Pre-req: GLY 200.
Grade Mode: Normal Grading Mode

GLY 530 Computer Methods Geology **4 Credit hours**
The computer will be used for compilation, reduction, data analysis and modelling from a wide range of geological problems. Existing and student developed programs will be used.
Grade Mode: Normal Grading Mode

GLY 551 Principles Geomorphology **4 Credit hours**
Identification and analysis of the earth's surficial features in terms of stratigraphy, structure, processes, tectonics, and time. 3 lec 2 lab.
Grade Mode: Normal Grading Mode

GLY 555 Hydrogeology **3 Credit hours**
The properties of water, the hydrologic cycle with emphasis on surface and groundwater processes. The uses, needs and problems associated with water resources.
Grade Mode: Normal Grading Mode

GLY 555L Hydrogeology Laboratory **1 Credit hour**
Laboratory and field experiments studying principles and concepts of hydrology. 2 lab.
Grade Mode: Normal Grading Mode

GLY 556 Environmental Geology **4 Credit hours**
Consideration of risks posed by natural geo-hazards and from physical/chemical contamination of geological media.
Grade Mode: Normal Grading Mode

GLY 557 Engineering Geology **4 Credit hours**
Consideration of geotechnical problems faced by geologists and engineers. Major topics include mechanics and classification of soil and rock, and geotechnical aspects of groundwater.
Grade Mode: Normal Grading Mode

GLY 580 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

GLY 581 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

GLY 582 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

GLY 583 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

GLY 585 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

GLY 586 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

GLY 587 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

GLY 588 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

GLY 640 Physical Aspects Geology **1-4 Credit hours**
Grade Mode: Normal Grading Mode

GLY 641 Biological Aspect Geology **1-4 Credit hours**
Grade Mode: Normal Grading Mode

GLY 642 Chemical Aspects Geology **1-4 Credit hours**
Grade Mode: Normal Grading Mode

GLY 681 Thesis **1-6 Credit hours**
Attributes: Onsite Learning Experience, Thesis
Grade Mode: Normal Grading Mode

Mathematics

MTH 500 Structure of Algebra **3 Credit hours**
Emphasis on the language of Modern Elementary Algebra. Recommended for preservice elementary teachers and for elementary and secondary in-service teachers. May not be used for a degree offered by the Department of Mathematics of in the twelve hour content block of the Secondary Education MA Degree program for students with mathematics certification in grades 7-12.
Grade Mode: Normal Grading Mode

MTH 501 Structure Modern Geometry **3 Credit hours**
Informal development of geometry. Recommended for preservice elementary teachers and for elementary and secondary in-service teachers. May not be used for a degree offered by the Department of Mathematics or in the twelve hour content block of the Secondary Education MA Degree program for students with mathematics certification in grades 7-12.
Grade Mode: Normal Grading Mode

MTH 527 Advanced Calculus I **3 Credit hours**
The number system, limits, sequences, partial differentiation with applications, maxima and minima of functions of several variables. Theory of definite integrals, multiple integrals, line and surface integrals, improper integrals, infinite series.
Grade Mode: Normal Grading Mode

MTH 528 Advanced Calculus II **3 Credit hours**
The number system, limits, sequences, parital differentiation with applications, maxima and minima of functions of several variables. Theory of definite integrals, multiple integrals, line and surface integrals, infinite series.
Pre-req: MTH 527 with a minimum grade of C.
Grade Mode: Normal Grading Mode

MTH 548 Modern Geometries **3 Credit hours**
Finite geometrics, basic background material for the modern development of Euclidean Geometry, other geometries.
Grade Mode: Normal Grading Mode

MTH 549 Projective Geometry **3 Credit hours**
Projective geometry using both synthetic and algebraic methods.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MTH 550 Modern Algebra I **3 Credit hours**
Structure of the abstract mathematical systems; groups, rings, fields, with illustrations and applications from Number Theory.
Grade Mode: Normal Grading Mode

MTH 552 Modern Algebra II **3 Credit hours**
Structure of the abstract mathematical systems; groups, rings, fields, with illustrations and application from Number Theory.
Pre-req: MTH 550 with a minimum grade of C.
Grade Mode: Normal Grading Mode

MTH 580 Special Topics **1-4 Credit hours**
Courses on special topics not listed among the current course offerings.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MTH 585 Independent Study **1-4 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MTH 589 Graduate Mathematics Seminar **1 Credit hour**
A seminar on topics relevant to graduate students in mathematics, including college-level teaching, conducting research, professional ethics, and mathematics careers. This course does not satisfy any degree requirements.
Attributes: No Textbook Required
Grade Mode: Credit/No Credit Grade Only

MTH 615 Partial Differential Equations **3 Credit hours**
Elementary partial differential equations. Heat equation, Laplace's equation, separation of variables, Fourier series, vibrating strings, eigenvalue problems, finite differences, Bessel functions, Legendre polynomials.
Grade Mode: Normal Grading Mode

MTH 616 Advanced Differential Equ **3 Credit hours**
Differential equations are studied qualitatively. Topics include the existence and uniqueness of solutions and the behavior of solutions including the stability of nonlinear systems, periodic solutions, and approximation using perturbation methods.
Grade Mode: Normal Grading Mode

MTH 630 Topology I **3 Credit hours**
General topology including separation axioms, connectedness, compactness, convergence, continuity, metric spaces, product and quotient spaces.
Grade Mode: Normal Grading Mode

MTH 631 Topology II **3 Credit hours**
General topology including separation axioms, connectedness, compactness, convergence, continuity, metric spaces, product and quotient spaces.
Pre-req: MTH 630 with a minimum grade of C and MTH 550 with a minimum grade of C.
Grade Mode: Normal Grading Mode

MTH 635 Graph Theory and Combinatorics **3 Credit hours**
The course is designed to introduce students in mathematical sciences to the theorems, techniques and applications of graph theory and combinatorics.
Grade Mode: Normal Grading Mode

MTH 640 Complex Variables I **3 Credit hours**
A study of algebra, topology, and geometry of the complex plane; holomorphic functions; conformal mapping; analytic functions and analytic continuation; complex integration; representation theorems; convergence theorems and related topics.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MTH 642 Numerical Linear Algebra **3 Credit hours**
Direct and iterative methods for numerical solution of linear systems of equations. Eigenvalues and eigenvectors. Error analysis and norms. Related Topics.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MTH 643 Numerical Analysis **3 Credit hours**
The theory and technique of numerical computation involving the difference calculus, the summation calculus, interpolation methods, solutions of equations, and methods of solution of ordinary differential equations.
Grade Mode: Normal Grading Mode

MTH 650 Real Variables I **3 Credit hours**
A study of measure and integration and related topics.
Pre-req: MTH 528 with a minimum grade of C.
Grade Mode: Normal Grading Mode

MTH 655 Number Theory and Cryptography **3 Credit hours**
A survey of number theory and cryptography topics. Topics include divisibility, modular arithmetic, quadratic residues, and quadratic reciprocity, hashing algorithms, cipher methods, and cryptanalysis.
Grade Mode: Normal Grading Mode

MTH 667 Num Partial Diff Equations **3 Credit hours**
Finite difference methods for elliptic, parabolic, and hyperbolic PDEs. Study of properties such as consistency, convergence, and stability. Computer implementation.
Pre-req: MTH 527 with a minimum grade of C.
Grade Mode: Normal Grading Mode

MTH 670 Independent Study **1-4 Credit hours**
An independent program of study of advanced topics not normally covered in other courses. The topics are chosen upon mutual agreement between the student and the instructor
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MTH 681 Thesis **1-6 Credit hours**
Attributes: No Textbook Required, Onsite Learning Experience, Thesis
Grade Mode: Normal Grading Mode

MTH 690 Special Topics **1-4 Credit hours**
Courses on special topics not listed among the current course offerings. (PR: Permission of Instructor)
Grade Mode: Normal Grading Mode

Nat Resources & Environment

NRE 500 Soil Fertility/Plant Nutrition **4 Credit hours**
This course will examine properties of soil fertility, its relationship to plan nutrition, and practices in nutrient management and fertilizer application.
Grade Mode: Normal Grading Mode

NRE 502 Sustainable Agriculture **3 Credit hours**
This course will examine the principles of sustainable agriculture and its relationship with natural resources while identifying challenges to agricultural sustainability and frontiers in the field.
Grade Mode: Normal Grading Mode

NRE 525 Water Policy & Regulations **3 Credit hours**
Examination of how aquatic resources are protected for humans and species of concern by current regulatory framework.
Grade Mode: Normal Grading Mode

NRE 531 Aqua Toxicology **4 Credit hours**
This course will introduce students to the principles of aquatic toxicology including regulations driving biological criteria, development of laboratory toxicity testing and test methodology.
Grade Mode: Normal Grading Mode

NRE 535 Biomonitoring **4 Credit hours**
A foundation of environmental assessment is the utilization of aquatic communities to monitor biota/habitat/water quality.
Grade Mode: Normal Grading Mode

NRE 540 Seminar I **1 Credit hour**
Introduction to graduate research and individual topics, development of literature research skills, reading and discussion of keystone papers, support for research project prospectus development and beginning the literature portfolio for the thesis.
Grade Mode: Normal Grading Mode

NRE 541 Fisheries Management **4 Credit hours**
The history, regulations, theory, and science behind the management/mismanagement of inland fisheries.
Grade Mode: Normal Grading Mode

NRE 545 Sustainable Tropical Ecology **3 Credit hours**
This course is designed to introduce the cultural components, human impacts, basic ecology, habitats types, biodiversity, plant communities, life histories, and conservation of tropical ecosystems.
Pre-req: NRE 546L (may be taken concurrently) or NRE 547L (may be taken concurrently).
Concurrent PR: NRE 546L or NRE 547L
Grade Mode: Normal Grading Mode

NRE 546L Sustain Tropical Travel Lab **2 Credit hours**
Laboratory companion course to NRE 545. Investigation of aquatic and terrestrial biota in the tropical environment and examination threats to tropical ecosystems. International trip, with an extra fee, required.
Pre-req: NRE 545 (may be taken concurrently).
Concurrent PR: NRE 545
Grade Mode: Normal Grading Mode

NRE 547L Sustainable Tropical Lab **1 Credit hour**
Laboratory companion course to NRE 445. Investigation of aquatic and terrestrial biota in the tropical environment and examination threats to tropical ecosystems.
Pre-req: NRE 545 (may be taken concurrently).
Concurrent PR: NRE 545
Grade Mode: Normal Grading Mode

NRE 550 Aquatic Invertebrates **4 Credit hours**
A survey course of the freshwater invertebrates found in the eastern United States. This course focuses on the taxonomy, life histories, and ecology of crustaceans, mollusks, and insects.
Grade Mode: Normal Grading Mode

NRE 560 Seminar II **1 Credit hour**
This course focus is discussion of fundamental and cornerstone literature from the field of nature resources. Emphasis will be given to research methods and individual student project development.
Grade Mode: Normal Grading Mode

NRE 580 Special Topics **1-4 Credit hours**
Study of an advanced topic not normally covered in other courses.
Grade Mode: Normal Grading Mode

NRE 581 Special Topics **1-4 Credit hours**
Study of an advanced topic not normally covered in other courses.
Grade Mode: Normal Grading Mode

NRE 582 Special Topics **1-4 Credit hours**
Study of an advanced topic not normally covered in other courses.
Grade Mode: Normal Grading Mode

NRE 583 Special Topics **1-4 Credit hours**
Study of an advanced topic not normally covered in other courses.
Grade Mode: Normal Grading Mode

NRE 585 Independent Study **1-4 Credit hours**
Independent Study (1-4 hrs)
Grade Mode: Normal Grading Mode

NRE 586 Independent Study **1-4 Credit hours**
Independent Study (1-4 hrs)
Grade Mode: Normal Grading Mode

NRE 587 Independent Study **1-4 Credit hours**
Independent Study (1-4 hrs)
Grade Mode: Normal Grading Mode

NRE 588 Independent Study **1-4 Credit hours**
Independent Study (1-4 hrs)
Grade Mode: Normal Grading Mode

NRE 604 Compost Science & Operations **4 Credit hours**
An advanced exploration of composting systems, evaluation methods, sustainable management strategies, compost quality characteristics and analysis, and community, environmental, and operational aspects of compost production and utilization.
Grade Mode: Normal Grading Mode

NRE 623 Adv Pathophysiology **3 Credit hours**
This course provides advanced knowledge of body systems altered by disease and/or injury across the life span. In addition, studying the pathophysiology of body systems will include exploring culture and ethnicity.
Pre-req: NUR 620 with a minimum grade of C.
Grade Mode: Normal Grading Mode

NRE 625 Advanced Physical Assessment **3 Credit hours**
Introduction to knowledge and skills essential for comprehensive health assessments, analysis of data, diagnoses, therapeutic plans, and health promotion and maintenance activities.
Grade Mode: Normal Grading Mode

NRE 640 Seminar III **1 Credit hour**
The course utilizes relevant literature from the Natural Sciences to investigate data analysis and presentation methods. Topics include statistical methods selection, graphical presentations, journal selection and interpretation of data outcomes.
Grade Mode: Normal Grading Mode

NRE 660 Seminar IV **1 Credit hour**
The course focuses on transition to professional opportunities beyond graduate school. Discussions will include scientific publication and public presentation in multiple venues and formats, expectations of various career options and applications of science in decision making.
Grade Mode: Normal Grading Mode

NRE 670 Independent Study **1-4 Credit hours**
Independent Study
Grade Mode: Normal Grading Mode

NRE 671 Independent Study **1-4 Credit hours**
Independent Study
Grade Mode: Normal Grading Mode

NRE 672 Independent Study **1-4 Credit hours**
Independent Study
Grade Mode: Normal Grading Mode

NRE 673 Independent Study **1-4 Credit hours**
Independent Study
Grade Mode: Normal Grading Mode

NRE 680 Special Topics **1-4 Credit hours**
Study of an advanced topic not normally covered in other courses.
Grade Mode: Normal Grading Mode

NRE 681 Thesis **1-8 Credit hours**
Thesis
Grade Mode: Normal Grading Mode

Physics

PHY 505 Optics Lab **2 Credit hours**
A course in optical experiments encompassing geometrical and physical optics. This course is to be taken with Physics 304.
Pre-req: PHY 304 (may be taken concurrently).
Concurrent PR: PHY 304
Grade Mode: Normal Grading Mode

PHY 508 Thermal and Stat Physics **3 Credit hours**
Introduction to Thermodynamics, kinetic theory of gases, classical and quantum statistical mechanics, Bose-Einstein and Fermi-Dirac statistics, and application. 3 cr. lec.
Grade Mode: Normal Grading Mode

PHY 515 Electronics Lab **2 Credit hours**
A course in laboratory measurements encompassing transistors, integrated circuits, and their associated circuits. This course is to be taken with Physics 314.
Grade Mode: Normal Grading Mode

PHY 520 Astrophysics **3 Credit hours**
A detailed study of core problems in Astrophysics such as orbital dynamics, radiation processes, stellar structure and evolution, galactic dynamics, and cosmology.
Grade Mode: Normal Grading Mode

PHY 521 Modern Physics Lab **2 Credit hours**
Laboratory exercises on modern physics topics encompassing both experiments of historic significance and current applications. To be taken with Physics 320, or equivalent.
Grade Mode: Normal Grading Mode

PHY 525 Solid State Physics **3 Credit hours**
The purpose of this course is to provide a broad introduction to the structures and physical properties of solids, which are of extraordinary importance in the modern world.
Grade Mode: Normal Grading Mode

PHY 535 Computational Physics **3 Credit hours**
A course in using numerical methods and computer programming languages for solving complex physics problems and for the simulation of various physical processes. 2 lec-2 lab.
Grade Mode: Normal Grading Mode

PHY 542 Quantum Mechanics **3 Credit hours**
Mathematical formalism of quantum mechanics, particles in potential fields, perturbation theory and other approximation methods, scattering, applications to simple systems. 3 lec.
Grade Mode: Normal Grading Mode

PHY 543 Quantum Mechanics II **3 Credit hours**
This is the second part of a two-semester introduction to quantum mechanics. Emphasis is on applications of quantum theory including approximation techniques and the study of more realistic quantum systems.
Grade Mode: Normal Grading Mode

PHY 544 Advanced Lab **2 Credit hours**
Developments in producing and detecting correlated photon pairs has enabled implementation of undergraduate laboratories demonstrating fundamental quantum mechanical principles. This laboratory also incorporates fundamental solid state and materials science experiments.
Pre-req: PHY 525 (may be taken concurrently) with a minimum grade of D and PHY 542 (may be taken concurrently) with a minimum grade of D.
Concurrent PR: PHY 525 and PHY 542
Grade Mode: Normal Grading Mode

PHY 545 Math Methods of Physics **3 Credit hours**
An introduction to the theory of orthogonal functions, curvilinear coordinate systems, vector and tensor fields and their applications in Physics. Problems are drawn from different areas of physics. 3 lec.
Grade Mode: Normal Grading Mode

PHY 546 MTH Methods of Physics II **3 Credit hours**
A second semester of a full year course on methods of solving problems in physics: calculus of variations, ordinary partial differential equations and special functions with real physics problems.
Pre-req: PHY 545.
Grade Mode: Normal Grading Mode

PHY 547 Mechanics for Teachers **4 Credit hours**
An indepth study of mechanics for education majors specializing in Physics with emphasis on problem solving techniques, demonstrations, experiments and computer applications. (PR: PHY 203, MTH 122 and MTH 140)
Grade Mode: Normal Grading Mode

PHY 580 Special Topics **2-4 Credit hours**
Grade Mode: Normal Grading Mode

PHY 581 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

PHY 582 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

PHY 583 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

PHY 585 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

PHY 586 Independent Study **1-4 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

PHY 587 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

PHY 588 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

PHY 600 Electricity and Magnetism I **4 Credit hours**
A study of electrostatics and associated boundary-value problems, electric multipoles and macroscopic media, dielectrics, magnetostatics, time-varying fields, Maxwell equations and conservation laws, plane electromagnetic waves and wave propagation.
Grade Mode: Normal Grading Mode

PHY 608 Statistical Mechanics **4 Credit hours**
The course introduces thermodynamics and statistical mechanics to graduate students of physics and other science and engineering disciplines as two complimentary approaches to study physical properties of systems in equilibrium.
Grade Mode: Normal Grading Mode

PHY 610 Special and Gen Relativity **3 Credit hours**
General relativity, the classical theory of one of the four fundamental forces, is not a standard course offer. This course of Special and General Relativity intends to fill this gap by introducing the key concepts that lead to a revolution in our understanding of space and time. The students will learn about spacetime curvature, metrics, geodesics, black holes, gravitational waves, and cosmology.
Grade Mode: Normal Grading Mode

PHY 620 Modern Astrophysics I **3 Credit hours**
Modern Astrophysics is firmly grounded in the fundamental principles of physics, and will offer students the opportunity to use the physics they have learned in understanding the nature of the universe. This course provides a graduate-level introduction to astrophysics, focusing on stellar structure and evolution.
Grade Mode: Normal Grading Mode

PHY 625 Condensed Matter Physics **3 Credit hours**
This course studies complex phenomena that occur in solids and quantum liquids, and exposes the students to some theoretical tools used to describe the basic interactions behind these phenomena.
Grade Mode: Normal Grading Mode

PHY 630 Classical Mechanics **4 Credit hours**
Study of variational principes and Lagrange's equations, the two-body central force problem, the kinematics and dynamics of rigid-body motion, Hamilton equations of motion, canonical transformations, Hamilton-Jacobi theory, and small oscillations.
Grade Mode: Normal Grading Mode

PHY 631 Seminar **1 Credit hour**
Grade Mode: Normal Grading Mode

PHY 632 Seminar **1 Credit hour**
Grade Mode: Normal Grading Mode

PHY 640 Fundamentals of Physics **4 Credit hours**
A course in fundamental concepts of physics. Subject content varies. Designed primarily to strengthen conceptual understanding of teachers.
Grade Mode: Normal Grading Mode

PHY 642 Adv Quantum Mechanics **4 Credit hours**
This course covers advanced topics of quantum mechanics at the graduate level. Topics include fundamental issues, approximation methods and applications.
Pre-req: PHY 630 (may be taken concurrently) with a minimum grade of D.
Concurrent PR: PHY 630
Grade Mode: Normal Grading Mode

PHY 645 Methods of Math. Physics **4 Credit hours**
This course will review and develop theories of real and complex analysis, group theory, tensors, special functions, differential and integral transforms, emphasizing their application to electrodynamics, quantum statistical mechanics, etc.
Grade Mode: Normal Grading Mode

PHY 661 Special Topics **1-3 Credit hours**
Grade Mode: Normal Grading Mode

PHY 662 Special Topics **1-3 Credit hours**
Grade Mode: Normal Grading Mode

PHY 682 Thesis Research **1-6 Credit hours**
Attributes: Onsite Learning Experience, Thesis
Grade Mode: Normal Grading Mode

PHY 685 Independent Study **1-4 Credit hours**
Advanced Independent Study in Physics.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

PHY 686 Independent Study **1-4 Credit hours**
Advanced Independent Study in Physics.
Grade Mode: Normal Grading Mode

Statistics

STA 512 Regression Analysis **3 Credit hours**
Determining regression models; deriving parameter estimates using calculus; detailed coverage of tests of assumptions and remedial procedures (transformations and weighted least-squares); multiple and polynomial regression; tests and corrections for autocorrelation.
Pre-req: STA 545 with a minimum grade of C.
Grade Mode: Normal Grading Mode

STA 513 Experimental Designs **3 Credit hours**
Principles of experimentation; Analysis of variance; Latin square and related designs; Factorial designs, Response Surface; Robustness; Nested and Split-Plot designs.
Pre-req: STA 545 with a minimum grade of C.
Grade Mode: Normal Grading Mode

STA 518 Biostatistics **3 Credit hours**
Statistical skills for biological/biomedical research, with emphasis on applications. Experimental design/survey sampling, estimation/hypothesis testing procedures, regression, ANOVA, multiple comparisons. Implementation using statistical software such as SAS, BMDP. May not be used for any degree offered by the Department of Mathematics.
Grade Mode: Normal Grading Mode

STA 520 Nonparametric Statistics **3 Credit hours**
Coverage of a variety of nonparametric or distribution-free markets for practical statistical inference problems in hypothesis testing and estimation, including rank procedures and randomization procedures.
Pre-req: STA 545 with a minimum grade of C.
Grade Mode: Normal Grading Mode

STA 525 Sampling Design & Estimation **3 Credit hours**
Coverage of the theory and applications of a variety of sampling designs; sample size determination; ratio and regression estimates; comparisons among the designs.
Grade Mode: Normal Grading Mode

STA 535 Statistical Data Mining **3 Credit hours**
Introduction to statistical learning techniques for analyzing high dimensional data. Topics include data mining strategy, explanatory analysis, predictive modeling techniques and model assessment.
Grade Mode: Normal Grading Mode

STA 545 Probability and Statistics I **3 Credit hours**
Probability spaces, conditional probability, and applications. Random variables, distributions, expectations, and moments.
Grade Mode: Normal Grading Mode

STA 546 Probability and Statistics II **3 Credit hours**
Probability spaces, conditional probability, and applications. Random variables, distributions, expectations, and moments.
Pre-req: STA 545 with a minimum grade of C.
Grade Mode: Normal Grading Mode

STA 564 Statistical Computing **3 Credit hours**
Introduction to the commonly used statistical computing techniques, procedures and methods, with extensive use of R language and environment, and SAS for statistical computing and graphics. (CR/PR: STA 545 or STA 546)
Pre-req: STA 545 with a minimum grade of C.
Grade Mode: Normal Grading Mode

STA 570 Applied Survival Analysis **3 Credit hours**
Survival and hazard functions, parametric and non-parametric methods, models and inferences for survival data, proportional hazard, and regression diagnosis.
Pre-req: STA 545 with a minimum grade of C.
Grade Mode: Normal Grading Mode

STA 580 Special Topics **1-4 Credit hours**
Courses on special topics in statistics not listed among current course offerings.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

STA 585 Independent Study **1-4 Credit hours**
A faculty supervised, individualized course of study of a topic in statistics.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

STA 634 Stat Mtds for Researchers **3 Credit hours**
Aspects of statistical modeling including model building, adequacy assessment, inference, and prediction. Applications to social biological, and medical sciences; engineering; and industry.
Grade Mode: Normal Grading Mode

STA 660 Stochastic Processes **3 Credit hours**
Theory and applications of Markov chains. (PR: MTH 545)
Pre-req: STA 545 with a minimum grade of C.
Grade Mode: Normal Grading Mode

STA 661 Adv Math Statistics **3 Credit hours**
Topics in mathematical statistics including distribution theory for functions of random variables, convergence concepts, sufficient statistics, finding optimal estimates for parameters, optimal test of hypotheses. (PR: MTH 546)
Pre-req: STA 546 with a minimum grade of C.
Grade Mode: Normal Grading Mode

STA 662 Appl Multivariate Stat Methods **3 Credit hours**
Introduction to multivariate statistical analyses and methodologies of various types of datasets that are commonly encountered in medical, business, engineering, science, and any other data intensive disciplines.
Pre-req: STA 546 with a minimum grade of C.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

STA 663 Time Series Forecasting **3 Credit hours**
Finding statistical models to represent various time-dependent phenomena and processes; coverage of a variety of forecasting techniques, with an emphasis on adaptive, regression, and Box-Jenkins procedures.
Pre-req: STA 545 with a minimum grade of C.
Grade Mode: Normal Grading Mode

STA 664 Bayesian Statistics **3 Credit hours**
An introduction to Bayesian Statistics with focus on Bayesian Modeling, inference and Data Analysis. Applications will be studies with appropriate statistical software.
Pre-req: STA 545 with a minimum grade of D.
Grade Mode: Normal Grading Mode

STA 665 Advanced Stat Learning **3 Credit hours**
An overview of concepts and techniques in advanced statistical learning. Topics include supervised/unsupervised learning, kernel smoothing methods, trees, random forests, association rules, neural networks and support vector machines.
Pre-req: STA 535 with a minimum grade of D.
Grade Mode: Normal Grading Mode

STA 670 Independent Study **1-4 Credit hours**
A faculty supervised, individualized course of study of a topic in statistics.
Grade Mode: Normal Grading Mode

STA 681 Thesis **1-6 Credit hours**
Investigate a theoretical or applied statistics problem under faculty mentorship.
Attributes: No Textbook Required, Onsite Learning Experience, Thesis
Grade Mode: Normal Grading Mode

STA 690 Special Topics **1-4 Credit hours**
Courses on special topics in statistics not listed among the current course offerings.
Grade Mode: Normal Grading Mode

Biological Sciences M.A., Accelerated Graduate Degree

Undergraduates accepted to a Biological Sciences Accelerated Graduate Degree (AGD) program can begin taking graduate level classes while still in the senior year of their undergraduate program. Up to 12 graduate credit hours of 500- and 600-level graduate courses can be used for both the undergraduate and graduate level coursework and will help facilitate an easy and fast transition into our graduate program if a student is accepted. Please see your advisor or email biology@marshall.edu (tbiology@marshall.edu) to discuss the program.

A student in an AGD program can complete the undergraduate degree in biological sciences substituting up to 12 graduate credit hours of 500- and 600-level graduate courses for credit hours that were required at the undergraduate level. Students who are in an undergraduate area of emphasis should choose graduate level coursework that is applicable to that emphasis to use toward their undergraduate degree.

Graduate coursework/credit will appear only on the graduate transcript, and graduate course grades will be calculated towards the graduate GPA.

Undergraduates can apply for a Biological Sciences AGD during their junior year or senior year. Students accepted to an Accelerated Graduate Degree (AGD) program can begin taking graduate level classes while in the senior year of their undergraduate program.

ADMISSION REQUIREMENTS

Eligibility Requirements for AGD Program

- Must have completed at least 60 hours toward the Bachelor's degree;
- Must have at least a 3.30 overall undergraduate GPA;
- Must have at least a 3.30 GPA in the major;
- Must meet the admission requirements of the chosen graduate degree program, apart from the receipt of a bachelor's degree. Students must earn a bachelor's degree to be fully admitted into the graduate degree program.

How to Apply

1. During the junior or senior year, eligible students should meet with their Undergraduate Advisor and faculty in the Department of Biological Sciences to identify an advisor for their graduate degree. The student and their graduate advisor should then develop an AGD plan of study. Any changes to the AGD plan of study must be approved by the undergraduate advisor and the Department of Biological Sciences in writing to the dean of the college housing the graduate program.
2. Students should apply for the AGD using the online form www.marshall.edu/graduate/current-students/forms-and-information/ (https://www.marshall.edu/graduate/current-students/forms-and-information/)
3. The student's acceptance into the AGD program is subject to the approval of the plan of study by the dean of the college housing the graduate program.
4. Students accepted into the AGD program should apply for admission to the chosen graduate degree program for the first semester after the bachelor's degree is awarded. Admission applications should be submitted during the last semester of the senior year.

Students must maintain a minimum GPA of 3.0 for all graduate credit toward their graduate degree program.

Withdrawal from the AGD

A student may withdraw at any time from the AGD by informing in writing the undergraduate advisor, the Department of Biological Sciences and the dean of the college housing the graduate program. The student's status will then revert to the standard undergraduate degree program. Any graduate hours earned must be approved for use in fulfillment of bachelor's degree requirements by the student's undergraduate dean.

From Undergraduate to Graduate Student

Beginning with the semester after the student has earned the bachelor's degree and has been accepted into a graduate degree program, the student is enrolled in the graduate program and is assessed tuition and fees at the graduate rate. All rules regarding graduate education will apply to the student once admitted into the graduate degree program.

Biological Sciences M.S., Accelerated Graduate Degree

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Students must maintain a minimum GPA of 3.0 for all graduate credit toward their graduate degree program.

Withdrawal from the AGD

A student may withdraw at any time from the AGD by informing in writing the undergraduate advisor, the Department of Biological Sciences and the dean of the college housing the graduate program. The student's status will then revert to the standard undergraduate degree program. Any graduate hours earned must be approved for use in fulfillment of bachelor's degree requirements by the student's undergraduate dean.

From Undergraduate to Graduate Student

Beginning with the semester after the student has earned the bachelor's degree and has been accepted into a graduate degree program, the student is enrolled in the graduate program and is assessed tuition and fees at the graduate rate. All rules regarding graduate education will apply to the student once admitted into the graduate degree program.

Biological Sciences, M.A.

Program Description

The Department of Biological Sciences offers Master of Science (M.S.) and Master of Arts (M.A.) degrees with a major in Biological Sciences. Students in these programs may work under a faculty mentor in a range of areas such as cellular and molecular biology, ecology, environmental sciences, evolution, genetics, microbiology, plant biology, neurobiology, and wildlife biology.

The Master of Arts (M.A.) degree does not require a thesis and is positioned primarily to allow students to strengthen their education in Biological Sciences and related fields through the completion of advanced coursework. Students will work with their mentor and committee to identify a suitable topic for in in-depth literature review paper, which will then form the basis for a comprehensive exam during their last term. M.A. students may also participate in original research under a faculty member, although it is not required for the degree.

Students who earn a Biological Sciences M.A. are well positioned to enter doctoral level graduate and professional schools, work in government, academic, or private industries, teach at schools or colleges, or use their skills to enter legal, business, or journalism careers, to name a few.

Graduate Assistantships

Once an application for the Biological Sciences graduate program has been made to Graduate Admissions, students who are interested may also apply to become a Graduate Teaching Assistant. To do so, visit the Human Resources website's Employment section, select "Graduate Assistant Employment," and search for listings under Biological Sciences. GA positions come with a tuition benefit and stipend. Open positions are generally posted in late spring and late fall; offers are made on a rolling basis.

Admission Requirements

Applicants should follow the admissions process described in this catalog or at the Graduate Admissions website at www.marshall.edu/graduate/admissions/how-to-apply-for-admission (http://www.marshall.edu/graduate/admissions/how-to-apply-for-admission/).

Applications for admission to the program are accepted throughout the year. However, graduate teaching assistantship (GTA) positions are open until filled. Later applicants may not be awarded a GTA if all the positions for the upcoming semester are filled.

In addition to the general application requirements, applicants should send the following materials directly to the Graduate Admissions office:

- three letters of recommendation from academic or professional references;
- a written statement of educational and professional goals that identifies a member of the graduate faculty from the Department of Biological Sciences willing to serve as the student's advisor (250-500 words).

Applicant must also have:

- An overall undergraduate GPA and a GPA in biology courses of 3.0 on a 4.0 scale.

Program Requirements

Code	Title	Credit Hours
Required Courses		
BSC 660	Seminar I	2
BSC 662	Seminar II	1
Electives		
Electives selected in consultation with Biological Sciences faculty		33
Total Credit Hours		**36**

Requirements for All Degrees

A Plan of Study approved by the student's advisor that meets all program and unversity requirements must be submitted for approval to the dean before the student registers for his or her 12th semester hour. The Plan of Study is a student's "blueprint" for completing graduation requirements. Students must also assemble a thesis committee (M.S.) or advising committee (M.A.) consisting of no fewer than three faculty (including the student's advisor) by the end of their first year. At least two committee members must be faculty in the Department of Biological Sciences. Students must meet with their committees at least once within their first year and at least once per semester in subsequent years.

- Only grades of *C* or better may be used to fulfill degree requirements and no more than six hours of *C* may be applied toward fulfilling the degree.
- Students must complete a minimum of 18 hours in Biological Sciences coursework.
- A Marshall University course taken at the 400 level cannot be retaken at the 500 level; it will not be applicable to the graduate degree.
- At least one-half of the minimum required hours for the student's master's degree must be earned in classes numbered 600 or greater.
- See the catalog section on Academic Requirements and Regulations for additional information.

M.A. Degree Requirements

- Students who select the M.A. option must complete a minimum of 36 hours of graduate coursework. At least 18 credits must be at the 600 level.
- Candidates for the master's degree must register for and participate in three hours of graduate seminars; BSC 660 Seminar I should be taken in the first semester, and BSC 662 Seminar II should be taken in what is expected to be the final semester. BSC 662 can be taken up to 2 times.
- Not more than 4 hours of seminar (BSC 660 Seminar I, maximum 2 credits; BSC 662 Seminar II, maximum 2 credits) may be used to complete the minimum hour degree requirement, and these may only be applied beyond the minimum 18 hours in BSC graduate credits.
- Not more than 4 semester hours credit in Independent Study or Special Problems (BSC 585-588, and BSC 650-652) may be used to complete the 36-hour requirement, and these may only be applied beyond the minimum 18 hours in BSC graduate credits.
- Students may elect to take 6 hours of graduate work in a minor field.
- Students will work with their mentor and committee to identify a suitable topic for in in-depth literature review paper.
- M.A. candidates must pass a comprehensive oral examination based on the topic chosen by themselves and their committee.

Biological Sciences, M.S.

Program Description

The Department of Biological Sciences offers Master of Science (M.S.) and Master of Arts (M.A.) degrees with a major in Biological Sciences. Students in these programs may work under a faculty mentor in a range of areas such as cellular and molecular biology, ecology, environmental sciences, evolution, genetics, microbiology, plant biology, neurobiology, and wildlife biology.

The M.S. degree in Biological Sciences prepares students for a range of employment opportunities, as well as additional study at the graduate level. Students must conduct research, and write and defend a thesis for the M.S. degree. Most M.S. students conduct lab- or field-based research on some biological question, but opportunities exist in other relevant areas such as educational methods in biology. Applicants are encouraged to contact potential faculty advisors about research projects and graduate assistantships prior to application for admission. Information about faculty may be accessed Biological Sciences website (www.marshall.edu/biology (http://www.marshall.edu/biology/)).

Graduate Assistantships

Once an application for the Biological Sciences graduate program has been made to Graduate Admissions, students who are interested may also apply to become a Graduate Teaching Assistant or Graduate Research Assistant. To do so, visit the Human Resources website's Employment section, select "Graduate Assistant Employment," and search for listings under Biological Sciences. GA positions come with a tuition benefit and stipend. Open positions are generally posted in late spring and late fall; offers are made on a rolling basis.

Admission Requirements

Applicants should follow the admissions process described in this catalog or at the Graduate Admissions website at www.marshall.edu/graduate/admissions/how-to-apply-for-admission (http://www.marshall.edu/graduate/admissions/how-to-apply-for-admission/).

Applications for admission to the program are accepted throughout the year. However, graduate teaching assistantship (GTA) positions are open until filled. Later applicants may not be awarded a GTA if all the positions for the upcoming semester are filled.

In addition, applicants should send the following materials directly to the Graduate Admissions office:

- three letters of recommendation from academic or professional references;
- a written statement of educational and professional goals that identifies a member of the graduate faculty from the Department of Biological Sciences willing to serve as the student's advisor (250-500 words);

Applicant must also have:

- An overall undergraduate GPA and a GPA in biology courses of 3.0 on a 4.0 scale.

Program Requirements

Code	Title	Credit Hours
Required Courses		
BSC 660	Seminar I	2
BSC 662	Seminar II	1
Thesis		**3-12**
BSC 681	Thesis	
Electives		
Electives selected in consultation with Biological Sciences faculty, 17 - 26 credit hours		
Total Credit Hours		**36**

Requirement for All Degrees

A Plan of Study approved by the student's advisor that meets all program and university requirements must be submitted to the dean before the student registers for his or her 12th semester hour. The Plan of Study is a student's "blueprint" for completing graduation requirements. Students must also assemble a thesis committee (M.S.) or advising committee (M.A.) consisting of no fewer than three members (including the student's advisor) by the end of their first year. At least two committee members must be faculty in the Department of Biological Sciences. Students must meet with their committees at least once within their first year and at least once per semester in subsequent years.

- Only grades of *C* or better may be used to fulfill degree requirements and no more than six hours of *C* may be applied toward fulfilling the degree.
- Students must complete a minimum of 18 hours in Biological Sciences coursework.
- A Marshall University course taken at the 400 level cannot be retaken at the 500 level; it will not be applicable to the graduate degree.
- At least one-half of the minimum required hours for the student's master's degree must be earned in classes numbered 600 or greater.
- See the catalog section on Academic Requirements and Regulations for additional information.

M.S. Degree Requirements

- Students must complete at least 32 hours of graduate coursework, including the thesis. At least 16 hours must be taken at the 600 level.
- Students must earn between a minimum of 3 and a maximum of 12 hours of Thesis credit BSC 681 Thesis
- .Candidates for the master's degree must register for and participate in three hours of graduate seminars; BSC 660 Seminar I should be taken in the first semester, and BSC 662 Seminar II should be taken in what is expected to be the final semester. BSC 662 can be taken up to 2 times.
- Not more than 4 times of seminar (BSC 660 Seminar I, maximum 2 credits; BSC 662 Seminar II, maximum 2 credits) may be used to complete the minimum hour degree requirement, and these may only be applied beyond the minimum 18 hours in BSC graduate credits.
- Not more than 4 semester hours credit in Independent Study (BSC 585 Independent Study to BSC 588 Independent Study), or Special Problems (BSC 650 Special Problems to BSC 652 Special Problems) may be used to complete the 36-hour requirement, and these may only be applied beyond the minimum 18 hours in BSC graduate credits.
- Students may elect to take 6 hours of graduate work in a minor field.
- M.S. students must complete an original research-based thesis, and defend their thesis to their committee.
- The final thesis must be approved for publication by the university before graduation.

Chemistry, M.S.

Program Description

The Master's Degree in Chemistry is a two-year program intended primarily for individuals interested in advanced training in chemistry and related disciplines in preparation for doctoral programs or for careers in industry, government, or postsecondary school education. Students are expected to be well grounded in one or more of the program's five areas of specialization: Analytical Chemistry, Biochemistry, Inorganic Chemistry, Organic Chemistry, and Physical Chemistry. The Department of Chemistry currently offers both a thesis and non-thesis option for the Chemistry M.S. degree.

Admission Requirements

Applicants should follow the admissions process described in this catalog or at the Graduate Admissions website at www.marshall.edu/graduate/admissions/how-to-apply-for-admission (http://www.marshall.edu/graduate/admissions/how-to-apply-for-admission/).

In addition, applicants must:

- hold an undergraduate degree in Chemistry, or an equivalent degree approved by the Department of Chemistry;
- have GRE (Graduate Record Exam) scores sent to Graduate Admissions.

Program Requirements

General Requirements

Students are required to complete 32 and 36 hours of graduate credit (see below) for the thesis and non-thesis options, respectively. No more than six hours of Special Topics courses may be counted in the minimum hours required by either route; any exceptions require specific departmental approval.

Students following the thesis option will receive up to 12 hours credit for CHM 682 Research and one hour each for CHM 631 Seminar and CHM 632 Seminar. The remaining 18 hours of graduate credit will come from courses in the various areas of chemistry, chosen in consultation with one's advisor. It is required that at least three of the five areas be represented in the Plan of Study (see below), and it is recommended that all courses pertaining to the area of one's research be included.

Plan of Study

A newly admitted student will take placement examinations the week before the beginning of the first term of study and then should meet with his or her advisor before registering for classes. The student and advisor will develop a Plan of Study or blueprint for graduation requirements. The Plan of Study must be on file in the college office

before the student registers for the 12th semester hour. Programs will be adjusted to reflect major interests and prior training of the student.

Non-Thesis Option

The non-thesis option is a seldom-utilized alternative route available for students currently employed full-time and requires department authorization. Basic requirements are the same as the thesis option; however, it requires 36 hours of graduate credit and a problem report followed by a public lecture. This program organization ensures that all students develop research, writing and public speaking skills regardless of their area of concentration. Due to limitations in course offerings, this option may require more than two years to complete.

Thesis Option

The preferred route requires a thesis with 32 hours of graduate credit, two public lectures, and an oral thesis defense. The Master of Science thesis demonstrates that you are capable of pursuing a program of original and independent research, that you can formulate and carry out a research project, and that you can report on the project in a proper scientific manner. The thesis option prepares students for technical careers in industry, or for further study toward a more advanced degree. This option requires advanced coursework in chemistry, biochemistry, or environmental chemistry and research, with the latter culminating in an M.S. thesis.

Shortly after entering the program students select a faculty advisor based on their research interests and agree on a research problem. Under the guidance of their faculty advisor students carry out the research program, select a graduate research committee and write and defend the thesis in a final oral examination.

The defense of the thesis will take place when the student, the research advisor, and the graduate research committee agree that a defensible copy of the thesis is complete. The thesis examination is graded on a pass/ provisional pass/fail basis. To pass the examination, there can be no more than one unsatisfactory grade from the committee members. A student who fails may submit another thesis or a revised version upon approval of the student's committee. A student may only be re-examined once. A student earning a provisional pass will generally be required to make minor revisions or corrections to the thesis.

Course Requirements

Code	Title	Credit Hours
Required Courses		
CHM 631	Seminar	1
CHM 632	Seminar	1
Thesis Option (32 total credit hours)		
CHM 682	Research	1-12
Electives selected in consultation with Chemistry faculty		
Non-thesis Option (36 total credit hours)		
Electives selected in consultation with Chemistry faculty		

Plan of Study

The plan of study is highly individualized and depends upon the concentration chosen and if they student has taken courses at Marshall previously. Students work with their mentor and the chair of the graduate program to develop a plan catered to their needs.

Criminal Justice, Accelerated Graduate Degree

Criminal Justice, Accelerated Graduate Degree

Undergraduates accepted to an Accelerated Graduate Degree (AGD) program can begin taking graduate level classes while still in their undergraduate program. These graduate credits can be used for both the undergraduate and graduate level coursework and will help facilitate an easy and fast transition into a graduate program if a student is accepted. To be accepted into the AGD, please see your advisor to see if you qualify for one of these positions.

Undergraduates accepted into an AGD program can begin taking graduate coursework during their junior or senior year. Programs offering an AGD option may allow up to 12 hours of graduate level coursework to also count towards an undergraduate degree.

Graduate coursework/credit will appear only on the graduate transcript, and graduate course grades will be calculated towards the graduate GPA.

Admission Requirements

Eligibility Requirements for AGD Program

- Must have completed at least 60 hours toward the Bachelor's degree;
- Must have at least a 3.30 overall undergraduate GPA;
- Must have at least a 3.50 GPA in the Criminal Justice major;
- Must meet the admission requirements of the chosen graduate degree program, apart from the receipt of a bachelor's degree. Students must earn a bachelor's degree to be fully admitted into the graduate degree program.

AGD programs may have admission requirements that differ from the admission requirements for the regular graduate degree. For example, some departments might waive the required admission test, such as the GRE or GMAT. Students should check with the chosen graduate degree program.

How to Apply

1. During the junior or senior year, eligible students should meet with their Undergraduate Advisor and the Director of Graduate Studies of their chosen graduate degree program to develop an AGD plan of study. Any changes to the AGD plan of study must be approved by the undergraduate advisor and director of graduate studies in writing to the dean of the college housing the graduate program.
2. The student's acceptance into the AGD program is subject to the approval of the plan of study by the dean of the college housing the graduate program.
3. Students accepted into the AGD program should apply for admission to the chosen graduate degree program for the first semester after the bachelor's degree is awarded. Admission applications should be submitted during the last semester of the senior year.

Students must maintain a minimum GPA of 3.0 for all graduate credit toward their graduate degree program.

Withdrawal from the AGD

A student may withdraw at any time from the AGD by informing in writing the undergraduate advisor, the director of graduate studies and the dean of the college housing the graduate program. The student's status will then revert to the standard undergraduate degree program. Any graduate hours earned must be approved for use in fulfillment of bachelor's degree requirements by the student's undergraduate dean.

From Undergraduate to Graduate Student

Beginning with the semester after the student has earned the bachelor's degree and has been accepted into a graduate degree program, the student is enrolled in the graduate program and is assessed tuition and fees at the graduate rate. All rules regarding graduate education will apply to the student once admitted into the graduate degree program.

Criminal Justice, M.S.

Program Description

The Master of Science degree in Criminal Justice provides students with advanced theoretical, legal, and methodological training for research, teaching, and management careers in criminal justice. The program serves to educate criminal justice professionals and prepare students for further advanced graduate work, legal studies, and scholarship. The Criminal Justice and Criminology program is committed to:

- providing students with the conceptual and research skills needed to undertake advanced analyses of the criminal justice system;
- serving criminal justice professionals and others who are interested in pursuing professional careers in management and administration;
- furnishing law enforcement, corrections and court practitioners with knowledge of justice administration, theoretical perspectives of human behavior, policy analysis and criminal justice theory; and
- preparing social scientists to pursue careers in university and research settings.

Admission Requirements

Deadlines: Applications to the program are due by July 1 for the fall semester and by November 1 for the spring semester. However, students are strongly encouraged to apply early. Applications submitted after the due dates will be considered, but no later than three weeks from the start of classes for the fall semester and four weeks for the spring semester. Application for admission does not guarantee acceptance into the program.

Applicants should follow the admissions process described in the Graduate Catalog, or at the Graduate Admissions website at www.marshall.edu/graduate/admissions/how-to-apply-for-admission (http://www.marshall.edu/graduate/admissions/how-to-apply-for-admission/). (Submit all materials to the Graduate Admissions Office.)

Applicants must also have:

- a baccalaureate degree from an accepted, accredited college or university (preference will be given to applicants with undergraduate majors in criminal justice or closely related social science discipline);
- an undergraduate Grade Point Average (GPA) of 3.0 or higher on a 4.0 scale as documented on an official, final degree transcript from the applicant's baccalaureate degree-awarding institution;
- GRE scores (will be evaluated in combination with the undergraduate GPA);
- for international students, a score on the TOEFL (Test of English as a Foreign Language) of 80;
- a *C* or better in an undergraduate research methods course or equivalent (documentation of course content may be required);
- two letters of recommendation (college instructors strongly preferred); and
- a personal statement (1-2 page essay regarding the student's interest in criminal justice and how the M.S. in Criminal Justice degree will benefit him or her).

Waivers: Applicants may qualify for a waiver of the GRE requirement if the student

1. possesses an overall GPA of 3.30 or higher as evidenced by his/her official, final degree transcript from the applicant's baccalaureate degree-awarding institution, or
2. by completion of a master's degree in a related field.

Applicants who have completed a previous master's degree must submit an official, final transcript from the applicant's master's degree-awarding institution as evidence of qualifying for the waiver.

Students may be considered for provisional admission or conditional enrollment. All prospective students are strongly encouraged to contact the Criminal Justice Graduate Director before applying to the Master of Science in Criminal Justice program to discuss the application process and requirements.

Assistantships and Financial Support

The Criminal Justice and Criminology department has funds available in the form of assistantships to provide financial support for graduate students. For complete information on graduate assistantships, please see www.marshall.edu/graduate/graduate-assistantships-2/graduate-assistantship-overview (http://www.marshall.edu/graduate/graduate-assistantships-2/graduate-assistantship-overview/). For complete information on other financial support opportunities, please see www.marshall.edu/graduate (http://www.marshall.edu/graduate/) and click on "Prospective Students" and then "Costs and Aid."

Program Requirements

General Requirements

The Master of Science degree in Criminal Justice requires the completion of 30 credits of coursework. In total, students take 15 credits of core courses, 12 credits of electives, and can choose the thesis (3 credits) or non-thesis (3 credits) option. The curriculum is structured around a set of core requirements that provide a broad foundation in criminological theory, research and statistics, criminal law as well as aspects of criminal justice policy and practice.

Plan of Study

Before registration for the 12th graduate credit hour, all graduate students must complete an official Plan of Study form to be approved

by the graduate director and/or department chair and submitted for approval to the college office.

Two-C Rule

A student who earns more than two grades of *C* or lower in any graduate courses will be withdrawn from the program (even if the course is repeated and a higher grade is earned).

Plan of Study

Core Requirements

All students are required to complete 15 credits of core courses:

Code	Title	Credit Hours
CJ 601	Seminar Criminal Justice	3
CJ 604	Adv Theory Criminal Just	3
CJ 621	Contemporary Law & Society	3
CJ 655	Research Methods in CJ	3
CJ 656	Data Applications in CJ	3
Total Credit Hours		**15**

The research methods and statistics sequence must be completed by all students during the first academic year in the graduate program (within the first 12 graduate credits for part-time students). Exceptions are made for students who must take prerequisite courses before enrolling in this sequence.

Electives

Students can choose from a variety of electives. A total of 12 hours of electives are required. Courses outside of the discipline in related fields may be taken with approval from the Graduate Director.

Non-Thesis Option

(3 credits)

For students who work in the field or anticipate a career in the criminal justice system. The requirements are:

- Complete the core courses and register for CJ 699 Capstone Experience (3 credits).
- Demonstrate written, research, and statistical abilities, which are part of the student's comprehensive assessment.
- Pass the capstone assessment with a *B* or higher.

Thesis Option

(3 credits)

This option is for students planning to continue graduate studies in a doctoral program. The requirements are:

- Complete the core courses and register for CJ 679 Problem Report (3 credits), which can count as an elective.
- Form a thesis committee and determine the graduate faculty member of the department who will serve as chair of the committee. The thesis committee assists in selecting and developing the research problem and evaluates the student's work.
- Create the prospectus and have it approved by the thesis committee prior to enrolling for CJ 681 Thesis.
- Enroll in CJ 681 Thesis for a minimum of 3 credits.
- Pass an oral defense of the thesis.

Criminal Justice, Minor

Graduate students from any program, with permission of the student's graduate advisor and the graduate director of the Criminal Justice and Criminology program can choose a graduate minor in Criminal Justice by taking six credit hours from the following list:

Code	Title	Credit Hours
Select six hours from the following:		6
CJ 504	Theoretical Criminology	
CJ 506	Race, Ethnicity, Class,& Crime	
CJ 510	Police Administration	
CJ 526	Civil Liability Issues CJ	
CJ 533	Correctional Administration	
CJ 601	Seminar Criminal Justice	
Total Credit Hours		**6**

Special topics courses appropriate for the minor are also frequently offered.

Digital Forensics, Graduate Certificate

Program Description

The Graduate Certificate in Digital Forensics is designed to provide students with knowledge and skills for the identification, collection, preservation, and examination of various types of digital evidence, including basic and in-depth knowledge and skills in digital forensic analysis policy and procedure, forensic analysis tools and techniques, data recovery, and investigation, as well as quality assurance, legal, and ethical considerations important to this rapidly changing field. This graduate certificate program does not assume, nor does it require, that the applicant have any experience in the field of digital forensics as the course sequence includes instruction ranging from fundamentals to advanced topics.

Employment

Applicants must be aware that background checks similar to those required for law enforcement officers are likely to be a condition of employment (Reference: NIJ Report NCJ 203099 - "Qualifications for a Career in Forensic Science." pp. 7-10) in the field of Digital Forensics.

Fees

The Forensic Science Fee is a special fee designed to support the Forensic Science Program, which cannot be waived.

Admission Requirements

1. Applicants seeking admission to the Graduate Certificate in Digital Forensics program, without admission to the M.S. Forensic Science degree program, should apply to Marshall University as a Certificate/ Professional Development student. Students will be admitted on a competitive basis for fall semester admissions only. Review of applicants will begin March 1 of each year but applicants may be admitted any time prior to the fall enrollment deadline.

As a limited enrollment program, students will be admitted on a space-available basis.

2. Regarding Digital Forensics, those students enrolled in the M.S. in Forensic Science degree program may choose to complete the M.S. Forensic Science with a Graduate Certificate in Digital Forensics **and** the M.S. Forensic Science with an Emphasis in Digital Forensics. Those electing to pursue the Graduate Certificate in Digital Forensics must complete a "Graduate Admissions Secondary Program Request" form at www.marshall.edu/graduate/secondary-program-request-form (http://www.marshall.edu/graduate/secondary-program-request-form/).
3. Applicants must submit official undergraduate transcripts to the Marshall University Graduate Admissions Office verifying that the applicant has a bachelor's degree from an accepted, accredited institution of higher learning and a cumulative Grade Point Average (GPA) of 3.0 or higher.
4. Applicants must submit 2 letters of recommendation to the Graduate Admissions Office, on formal letterhead from individuals familiar with the applicant's academic record and moral character. These letters must be signed and dated.
5. Applicants must submit a "Personal Statement/Statement of Purpose" to the Graduate Admissions Office, written, signed, and dated by the applicant, explaining why the applicant believes he/she should be admitted to the program.
6. Applicants must successfully complete a background check to gain entrance to this program. The procedure for undergoing a background check will be provided once the applicant demonstrates he or she has met all other admissions criteria. International students who have resided in the United States longer than 30 days are required to have a U.S. criminal background check as an admission requirement. As international students have a background check as part of their visa application, international students who have resided in the United States for fewer than 30 days are exempt from undergoing a U.S. background check.

Program Requirements

Successful completion of this Graduate Certificate requires that the student maintain a cumulative Grade Point Average (GPA) of 3.0 or better in 5 required courses with no grade of *C* or less.

Code	Title	Credit Hours
Required Courses		
FSC 632	Found Fund Digital Forensics	3
FSC 634	Comp Search & Seizure	3
FSC 605	F S Digital Imaging	3
FSC 609	Network Forensics	3
FSC 676	Adv Dig Evid Detect Recovery	2
FSC 680	Seminar	2
Total Credit Hours		**16**

Plan of Study

First Year		
First Semester		**Credit Hours**
FSC 632	Found Fund Digital Forensics	3
FSC 609	Network Forensics	3
FSC 680	Seminar	1
	Credit Hours	**7**
Second Semester		
FSC 634	Comp Search & Seizure	3
FSC 605	F S Digital Imaging	3
FSC 676	Adv Dig Evid Detect Recovery	2
FSC 680	Seminar	1
	Credit Hours	**9**
	Total Credit Hours	**16**

Forensic Science, M.S.

Admission Requirements

Admission Policy

Entrance into the Forensic Science Program is restricted to the fall semester only. Applicant materials should be submitted as early as possible for priority consideration for the fall term. The program observes a rolling admission policy so that individuals may apply at any time. Applicants will be considered for admission while openings remain available for the program. Students who apply early have a better chance of admission than those who apply later in the admission cycle; however, it is not uncommon for applicants to be notified throughout the year.

The complete application process includes:

1. Submission of the Marshall University graduate application available online at www.marshall.edu/graduate/admissions/how-to-apply-for-admission (http://www.marshall.edu/graduate/admissions/how-to-apply-for-admission/).
2. Completion of a Free Application for Federal Student Aid (FAFSA) as soon after January 1 as possible at www.fafsa.gov (http://www.fafsa.gov).
3. Submission of official transcript(s) documenting that the applicant has:
   a. Completed a bachelor's degree in a forensic or natural science, computer science, computer electronic or electrical engineering, information systems or information technology (or its equivalent coursework in a relevant field) from an accepted, accredited institution of higher learning.
   b. Achieved an overall Grade Point Average of 3.0 or better on a 4.0 scale.
   c. Completed 1 academic year of biology and its associated labs with no grade of less than a C.
   d. Completed 1 academic year of general chemistry and its associated labs with no grade of less than *C*.
   e. Completed 1 academic year of organic chemistry and its associated labs with no grade of less than *C*.
   f. Completed 1 academic year of physics and its associated labs with no grade of less than *C*.
   g. It should be noted that successful completion of an undergraduate course in biochemistry is recommended, but not required, prior to entry into this program.
4. Graduate Record Exam (GRE)
   Applicants should achieve a score of 150 or higher on the verbal and quantitative sections and a score of 3.5 or higher on the analytical writing section.
5. Formal Letters

a. Applicant's personal statement providing reasons why he or she should be admitted to the Forensic Science program.
b. 3 letters of recommendation on formal letterhead from individuals familiar with applicants' moral character, academic acumen and aptitude, integrity, and work ethic.

Applicants who do not meet the minimum GPA and/or GRE requirements may be considered for provisional admission, at the discretion of the program, when the capacity to admit provisional applicants exists. Full admission to the program, once an offer is made, is also contingent on successful completion of a background check, documentation of hepatitis B vaccination/titer or formal declination of vaccination, and receipt of other documentation required for enrollment.

Early Assurance Pathway

The Marshall University Forensic Science Graduate Program Early Assurance Pathway allows incoming high school seniors and College of Science undergraduate students to apply for acceptance into the Master of Science in Forensic Science Program. Successful applicants will be guaranteed a seat pending completion of all undergraduate requirements, earning a natural science degree, and satisfying program pre-requisites.

Admissions Requirements for Early Assurance

- Cumulative High School GPA of 3.5 on a 4.0 scale
- Three letters of reference/recommendation from high school or college teachers in STEM-related classes.
- Minimum composite ACT of 24 or SAT composite score of 1160
- Personal statement discussing why the student wants to pursue Forensic Science as a career.

Continuing Requirements

- Students must declare an undergraduate major in a natural science.
- Students must maintain a 3.0 GPA each semester (students may fall below a 3.0 GPA for a maximum of one semester during their undergraduate degree), achieve an overall cumulative undergraduate GPA of 3.0.
- Students should receive a B or higher on the pre-requisite courses however they may receive no more than 3 C's in the following courses: biology 1 lecture & lab, biology 2 lecture & lab, chemistry 1 lecture & lab, chemistry 2 lecture & lab, organic chemistry 1 lecture & lab, organic chemistry 2 lecture & lab, physics 1 lecture & lab, and physics 2 lecture & lab. A grade of D or F in a pre-requisite course is not permitted. Prerequisite courses required may be completed through Advanced Placement (AP) prior to graduating high school.
- Students who are accepted to the Early Assurance program and meet the admissions requirements for progression into the MSFS will not have to take the GRE.

Application Process

- Students must apply and be accepted to Marshall University prior to applying to the Forensic Science Graduate Program.
- Students must complete the Early Assurance application and submit supporting materials to MU MSFS Admissions Committee, 1401 Forensic Science Dr., Huntington, WV 25701.
- Application must include:
  - Online application form
  - Personal statement discussing why the student wants to pursue Forensic Science as a career
  - Official high school transcript
  - Official undergraduate transcript (if applicable)
  - ACT or SAT scores
  - Three letters of reference/recommendation from high school or college teachers in STEM-related classes

Program Requirements

The FEPAC-accredited Master of Science degree in Forensic Science is a broad-science-based, five-consecutive semester curriculum. While all forensic science students are required to complete a research project, both thesis and non-thesis options are available.

Thesis Option: The thesis option stresses a research component where students conduct original research and prepare, as well as defend, a written thesis based on their investigative findings. The thesis option requires a minimum of FSC 685 Intro Research (3 credit hours) and FSC 681 Thesis (3 credit hours) in addition to the general Core Curriculum and a minimum of one Area of Emphasis. The thesis option often requires 1-2 additional semesters to complete. The students' research committee consists of a minimum of three working professionals or faculty skilled in the art with at least one external to the academic program. The students' thesis defense and presentation is in addition to the research project and associated activities described for the non-thesis option.

Non-Thesis Option: The research project associated with the non-thesis option is required of all forensic science students. Students electing the non-thesis option are required to successfully complete an applied research project during their summer internship which requires a research paper, as well as formal slide-based and poster presentations to be presented at regional or local meetings. The committee composition for the non-thesis option is similar to the thesis option.

Areas of Emphasis

The Forensic Science Program offers four areas of emphasis that students may complete to enhance the core curriculum. The student is required to complete at least one area of emphasis but may complete up to four. Completing multiple areas of emphasis is contingent on maintaining good academic standing while enrolled in the program. Students may choose from the following four Areas of Emphasis:

Crime Scene Investigation

The Crime Scene Investigation emphasis provides students with the tools and hands-on experience to excel and become leaders in their field. The Forensic Science program has its own Crime Scene House that allows students to obtain real-world experience and training through the completion of mock crime scene exercises.

Digital Forensics

Computers and other digital devices hold a wealth of information including text, digital images, audio and video, which can serve as key evidence for solving crimes. Forensic software programs can be used to image digital storage media and the images can be analyzed using a variety of investigative software programs. Mobile phone forensics is an area that is emphasized in the forensic science courses, as well as investigation of computers and gaming devices. The opportunity

to participate in hands-on experiences with investigative tools allows students to participate in mock investigations in preparation for careers in this exciting discipline.

DNA Analysis

The Marshall University Forensic Science Center is home to the academic program as well as a service-oriented DNA laboratory. This lab also serves as the Combined DNA Index System (CODIS) for West Virginia. The DNA emphasis exceeds the DNA Advisory Board standards by requiring a total of 8 graduate-level credit hours addressing the DNA guidelines.

Forensic Chemistry

Students pursuing careers in forensic drug analysis, toxicology, and trace evidence will benefit from the completion of the Forensic Chemistry emphasis. As some agencies may require 30 or more hours of chemistry coursework, the Forensic Chemistry emphasis provides additional education and hands-on training to meet these federal and state guidelines.

Other Requirements

In the third term, students are required to complete an approved research-based internship in a crime laboratory or other approved facility. In the fifth term, students are expected to pass a written, comprehensive examination.

Plan of Study

Core Curriculum

The core curriculum is required of all forensic science students to provide broad-based education and experience. The core curriculum includes:

Code	Title	Credit Hours
Core Curriculum		
FSC 604	Genetics & DNA Technology	3
FSC 606	Crime Scene/Death Investiga	3
FSC 612	Intro Foren Micro/Trace	2
FSC 618	Forensic Comparative Sciences	2
FSC 622	Forensic Analytical Chem	3
FSC 623	Forensic Chemistry Laboratory	1
FSC 624	Biochemistry: Forensic Science	4
FSC 630	Internship	5
FSC 632	Found Fund Digital Forensics	3
FSC 665	Legal Court in Forensic	3
FSC 680	Seminar (semesters 1, 2, 4, 5)	1
FSC 619	Forensic Statistics	3
Approved Elective		3
Areas of Emphasis		
Select from one of the Areas of Emphasis listed below		7-11
Total Credit Hours		**43-47**

Areas of Emphasis:

Crime Scene Investigation (p. 325)
Digital Forensics (p. 325)
DNA Analysis (p. 325)
Forensic Chemistry (p. 326)

- Crime Scene Investigation, Emphasis (p. 325)
- Digital Forensics, Emphasis (p. 325)
- DNA Analysis, Emphasis (p. 325)
- Forensic Chemistry, Emphasis (p. 326)

Crime Scene Investigation, Emphasis

Course Requirements

Crime Scene Investigation

Area of Emphasis for the M.S. in Forensic Science

In addition to the core curriculum, this area of emphasis includes:

Code	Title	Credit Hours
FSC 607	Blood Stain Pattern Analysis	3
FSC 615	Adv Crime Investigation	3
FSC 617	Adv Crime Photo & Document	2
Total Credit Hours		**8**

Total including Core requirements 44 hrs.

Digital Forensics, Emphasis

Digital Forensics

Digital Forensics area of emphasis for the M.S. in Forensic Science, the student must complete the following courses in addition to the core curriculum:

Code	Title	Credit Hours
FSC 605	F S Digital Imaging	3
FSC 609	Network Forensics	3
FSC 634	Comp Search & Seizure	3
FSC 676	Adv Dig Evid Detect Recovery	2
Total Credit Hours		**11**

Total including core requirements 47

DNA Analysis, Emphasis

DNA Analysis

Forensic DNA Analysis area of emphasis for the M.S. in Forensic Science, the student must complete the following courses in addition to the core curriculum:

Students considering a career in Forensic DNA Analysis are encouraged to enroll in FSC 650 Special Topics, Crime Laboratory Technical Assistance (Fall, 2 credits; and Spring, 2 credits).

Code	Title	Credit Hours
FSC 600	Cell & Molecular Biology	3
FSC 603	Genetics-DNA Lab	1

FSC 627	Human Genetics	2
FSC 629	Advanced DNA Technologies	2
Total Credit Hours		**8**

Total including core requirements 44 hrs.

Forensic Chemistry, Emphasis

Forensic Chemistry

Forensic Chemistry area of emphasis for the M.S. in Forensic Science, the student must complete the following courses in addition to the core curriculum:

Code	Title	Credit Hours
FSC 608	Forensic Toxicology	3
FSC 626	Advanced Drug Analysis	2
FSC 628	Chem Analysis Trace Evidence	2
Total Credit Hours		**7**

Total including core requirements 43 hrs.

Geobiophysical Science, Minor

The Department of Mathematics and Physics also offers a minor field in Geobiophysical Science. Please contact the department chair for information about this minor.

Mathematics, M.S.

Program Description

The Master of Science degree in Mathematics is offered by the Department of Mathematics and Physics. This is a two-year program designed to prepare students for positions in industry, government agencies, or business; for further graduate study at the doctoral level; and for teaching positions at the secondary or two-year college level. We also offer an Area of Emphasis in Statistics in the M.S. Mathematics degree program.

Note: An area of emphasis in mathematics, Math through Algebra I, is offered by the M.S. degree programs in Elementary Education and Secondary Education. These programs, which are offered through the College of Education and Professional Development, are intended to meet the needs of public school teachers (K-12).

Admission Requirements

Applicants to the Mathematics program must follow the admissions process described in the Graduate Catalog, or at the Graduate Admissions website at www.marshall.edu/graduate-admissions/ (https://www.marshall.edu/graduate-admissions/).

International applicants should also consult the Office of International Student Services and review the website www.marshall.edu/international-admissions/ (https://www.marshall.edu/international-admissions/).

In addition:

- Applicants must have a Grade Point Average of at least 2.5 on a scale of 4 from the bachelor's degree-granting institution. International applicants should contact the Office of International Student Services to inquire about possible substitute documentation.
- Applicants may optionally report scores from the Graduate Record Examination. Applicants who choose to send scores should send them directly to the Graduate Admissions office.

Deadlines. To ensure full consideration for admission, domestic applicants must ensure that their application materials are received by the Graduate Admissions office no later than August 1 for admission in the fall, and no later than December 1 for admission in the spring. International applicants must ensure that their application materials are received by the Graduate Admissions office no later than June 15, for admission in the fall, and no later than October 15, for admission in the spring. Applicants who apply for a Graduate Assistantship should follow the earlier dates set below in the section Timeframe for Awarding Graduate Assistantships.

Conditional Admission. The Mathematics program may admit applicants conditionally, for one term, pending receipt of required credentials. Applicants whose transcripts do not show coursework equivalent to a bachelor's degree in mathematics may be admitted conditionally and required to take additional foundational courses, which may include undergraduate courses. Applicants who are conditionally admitted are not eligible to receive a Graduate Assistantship, but become eligible when fully admitted.

Provisional Admission. The Mathematics program may admit applicants provisionally, for one term, when the undergraduate Grade Point Average does not meet the requirement for admission.
For more information on the types of admissions, please see www.marshall.edu/graduate-admissions/ (https://www.marshall.edu/graduate-admissions/).

Mathematics Graduate Assistantships and Financial Support
The department offers a limited number of Graduate Assistantships. An applicant wishing to be considered for a Graduate Assistantship must submit a separate application form to the Mathematics Department Graduate Coordinator. This form can be obtained from the Graduate Coordinator or from the Department of Mathematics website at www.marshall.edu/cos/math-physics/ (https://www.marshall.edu/cos/math-physics/).

For complete information on graduate assistantships and other financial support opportunities, please see the Graduate Studies website at www.marshall.edu/graduate/graduate-assistantship-overview/ (https://www.marshall.edu/graduate/graduate-assistantship-overview/).

Additional requirements for Graduate Assistant applications:

- The applicant should arrange for no more than three letters of recommendation supporting the application. Letters may be sent by email or by postal mail directly by the referrers to the Graduate Coordinator, Department of Mathematics and Physics, One John Marshall Drive, Huntington WV 25755.
- The applicant must also submit a personal statement not more than two pages in length. This statement should describe the applicant's background, motivation for studying mathematics, future plans, and any other topics relevant to the applicant's qualifications for a Graduate Assistantship.

- Applicants for a Graduate Assistantship must also apply for a graduate degree program. Graduate Assistantships can only be awarded to students who are accepted in graduate degree programs.
- Applicants may optionally report GRE scores. Scores will be considered as part of the application if they are reported to Marshall University before the application is reviewed.
- A minimum Grade Point Average of at least 2.75 on a scale of 4 from the bachelor's degree granting institution is required.

Timeframe for Awarding Graduate Assistantships. Offers for Graduate Assistantships will be made beginning after May 15, for admission the following fall, and November 15, for admission the following spring. Applicants should ensure their materials are received before these dates to ensure full consideration. Applications received after these dates will be considered until all available Graduate Assistantships are filled.

Program Requirements

The M.S. in Mathematics degree requires 36 credit hours of coursework. The optional Area of Emphasis in Statistics can usually be completed within the same 36 credit hours. In some cases, additional credit hours may be required to fulfill the M.S. in Mathematics degree requirements or the requirements for the Area of Emphasis.

The requirements for the M.S. in Mathematics degree include a 500-level breadth requirement, a 600-level depth requirement, and a comprehensive oral exam or thesis. To ensure that students are on track to graduate, each student must submit an approved Plan of Study to the Mathematics Graduate Coordinator for approval during the first semester of the M.S. in Mathematics program. Changes to the plan of study must be approved by the Graduate Coordinator.

Breadth requirement (18 hours)
The breadth requirement consists of three sequences, each of which has two courses. All students must take these courses or receive an exemption.

- MTH 527: Advanced Calculus 1 and MTH 528: Advanced Calculus 2
- STA 545: Probability and Statistics 1 and MTH 546: Probability and Statistics 2
- MTH 550: Modern Algebra 1 and MTH 552: Modern Algebra 2 (if not pursuing the Area of Emphasis in Statistics)
- STA 512: Regression Analysis and STA 513: Experimental Design (if pursuing the Area of Emphasis in Statistics)

If a student can demonstrate previous equivalent coursework for one or more of these courses, the Graduate Coordinator may grant exemptions. The department may ask for course syllabi or other information to verify the equivalence.

Exemptions do not change the number of hours required for the degree. Credit hours for the exempted courses become electives. The choice of electives will be made by the student with the approval of the Graduate Coordinator. Electives must be from the MTH and/or STA subject areas, except as described under Graduate Minor. Electives may be at the 500 or 600 level. They may include regular courses, independent study courses, and/or additional thesis credit hours, with the approval of the Graduate Coordinator.

Depth Requirement (18 hours)

For the depth requirement, students must take six courses (18 hours) at the 600 level. The following restrictions apply:

- Independent study courses do not count toward the depth requirement.
- Up to 3 hours of thesis credit may count toward the depth requirement.

The university allows up to 6 hours of thesis credit. Only 3 hours may count towards the depth requirement. Additional thesis credit may count as an elective if the student has exemptions as described under the Sequence Requirement.

Credit hours for MTH 589 (Graduate Mathematics Seminar) do not count towards the 36 hours required for the M.S. in Mathematics degree. A few other graduate mathematics and statistics courses, offered for the benefit of other degree programs, cannot be counted towards the M.S. in Mathematics degree. The Graduate Coordinator can provide information about which courses are suitable for the degree.

Comprehensive Oral Exam or Thesis
Each student must choose to take a comprehensive oral exam or write and defend a master's thesis.

Students who choose to take a comprehensive oral exam will select three 600-level courses from their transcript, with the approval of the Graduate Coordinator. The student Graduate Coordinator will then select a committee of three faculty members to examine the student on the selected courses.

Students who choose to write a master's thesis will work under the guidance of a Thesis Advisor. With the approval of the Thesis Advisor and the Graduate Coordinator, the student will select a committee of at least three graduate faculty, including the Thesis Advisor.

Graduate Minor
Students may take a graduate minor offered by another program and listed in the Graduate Catalog. Up to two 500-level courses from a graduate minor may be used to fill exemptions from the sequence requirement, if the student has exemptions. Additional courses in the graduate minor will increase the number of credit hours required for the degree.

First Year

First Semester		**Credit Hours**
MTH 527	Advanced Calculus I	3
STA 545	Probability and Statistics I	3
Choice of sequence depends on AoE		3
MTH 550	Modern Algebra I (if not pursuing the AoE in Statistics)	
STA 512	Regression Analysis (if pursuing the AoE in Statistics)	
	Credit Hours	**9**
Second Semester		
MTH 528	Advanced Calculus II	3
STA 546	Probability and Statistics II	3
Choice of sequence depends on AoE		3
MTH 552	Modern Algebra II (if not pursuing the AoE in Statistics)	

STA 513	Experimental Designs (if pursuing the AoE in Statistics)	
	Credit Hours	**9**
Second Year		
First Semester		
600-level depth requirement (3 courses)		9
	Credit Hours	**9**
Second Semester		
600-level depth requirement (3 courses)		9
	Credit Hours	**9**
	Total Credit Hours	**36**

Area of Emphasis

- Statistics, Emphasis (p. 328)

Statistics, Emphasis

Program Description

An area of emphasis in statistics is offered in the Department of Mathematics and Physics. The curriculum for the Master of Science in Mathematics with an Area of Emphasis in Statistics prepares students with a solid background in both theoretical and applied statistics for positions in industry, government agencies, or business; for further graduate study at the doctoral level; and for teaching positions at the secondary or two-year college level.

Program Requirements

The Area of Emphasis in Statistics is an optional addition to the M.S. in Mathematics degree. To earn the Area of Emphasis in Statistics, students must complete the requirements for the M.S. in Mathematics degree, including at least 36 credit hours. The courses for the Area of Emphasis in Statistics can come from these 36 credit hours, and can also be used to simultaneously meet requirements for the M.S. degree. In some cases, additional hours may be required to meet the requirements of the Area of Emphasis in Statistics as well as the M.S. in Mathematics degree.

To earn the Area of Emphasis in Statistics the student must take:

Code	Title	Credit Hours
STA 512	Regression Analysis	3
STA 513	Experimental Designs	3
STA 661	Adv Math Statistics	3
STA 662	Appl Multivariate Stat Methods	3
Total Credit Hours		**12**

- Students who earn the Area of Emphasis in Statistics must have at least 12 hours of MTH prefix courses on their plan of study.
- If the student chooses to take a comprehensive oral exam, the student must take at least 18 credit hours in probability and statistics courses. At least two of the 600-level courses selected for the oral exam must be in the area of probability and statistics.
- If the student chooses to write a thesis, the student must take at least 15 credit hours of probability and statistics courses in addition to at least three hours of thesis credit. The thesis topic must be related to probability and statistics.
- Students who earn the Area of Emphasis in Statistics must have at least 12 hours of MTH prefix courses on their plan of study.
- Probability and statistics courses include courses with the STA prefix, MTH 650 Real Variables I, and MTH special topics and independent study courses approved by the Graduate Director.

Mathematics, Minor

The Department of Mathematics and Physics also offers a graduate minor in mathematics. A minor is earned by taking at least 6 credit hours in MTH-designated courses at the 500- or 600- level in Mathematics as approved by the student's advisor and the Graduate Coordinator in the Department of Mathematics and Physics.

Natural Resources and the Environment, M.S.

Overview

The Department of Natural Resources and Environment offers an M.S. in Natural Resources and the Environment (NRE) designed to provide specialized and professional knowledge in the area of sustainable natural resource management and protection. The focus of the program is on the application of scientific theory and principles to complex environmental issues such as development and implementation of environmental regulations, sustainable resource use and management, and human interaction with the environment. This student-centered degree integrates multiple disciplines and diverse backgrounds to prepare students for employment or advanced degrees in broad topics spanning assessment, management, and protection of aquatic and terrestrial resources considering the ecosystem, organismal, and human dimensions of resources. Utilization of sound scientific principles to formulate, implement and analyze data for solving complex problems underlies the foundation of student's diverse backgrounds and interests in the program. Graduates from the program will demonstrate the ability to conduct independent research regarding natural resources and management of problems essential to sustainable development. The M.S. in NRE challenges students to bridge the distance between science and application, focusing not only on firm understanding of social and natural sciences, but on research methods, technology, and the regulatory· structure overarching natural resource management and environmental decision making. Students may focus on areas of specialization including aspects of environmental science and management, the human dimension of natural resources, and sustainability. This program provides students with the tools and skillset to emerge as problem solvers and leaders in natural resource management, protection and sustainability.

Admission Requirements

Applicants for the M.S. in NRE should follow the admissions process described in this catalog or at the Graduate Admissions website at www.marshall.edu/admissions/graduate. All admission materials must be sent directly to the Graduate Admissions Office. Applicants must also submit a letter of recommendation from an academic or professional reference, and a written statement of educational and professional goals.

Applicants must have a minimum undergraduate GPA of 2.9. Applicants demonstrating potential but not meeting the admission

criteria may be admitted to the M.S. program with permission from the NRE faculty.

Graduation Requirements

M.S. candidates must meet the general requirements for Graduate Studies and complete a thesis with a minimum of 36 total credits. Of the 36 credit hours required for the M.S., at least 18 credits must be at the 600-level and at least 21 credits must be NRE courses as described in the Plan of Study. Electives from other departments may be taken to complement the NRE course requirements, with permission of the NRE graduate advisor and course instructor.

Students will be required to submit a Plan of Study form signed by an advisor and two additional faculty members (Thesis committee) to Graduate Studies after their first semester. Students must hold one Thesis committee meeting in their first year and each semester thereafter. All other requirements such as "master thesis" and "final oral presentation" will follow the guidelines by the Marshall University Graduate Studies and the M.S. NRE program.

Each student's plan of study in NRE will include core classes from the department supplemented with additional coursework from supporting areas. Generally, the required 36 hours for completion will include thesis (8 hours of NRE 681) and a seminar series (4 hours total from NRE 540, 560, 640, 660, which are **1** credit hour each). The additional coursework will include 3 core classes for the discipline (9 hours). Each program of study will include a management/regulation (MR) course (3 hours), an applied research methods or instrumentation (MI) course (3 hours, may have lab hours) and an appropriate statistics course (3 hours). Courses meeting the MR and MI requirements are listed in the Plan of Study, although others may be utilized to meet these requirements at the graduate committee's discretion. Statistics courses meeting the third core course requirement may be selected from those shown in the Plan of Study.

Plan of Study

Code	Title	Credit Hours
NRE 540	Seminar I	1
NRE 560	Seminar II	1
NRE 640	Seminar III	1
NRE 660	Seminar IV	1
Management/Regulation		**3**
Select 3 hours from among:		
NRE 525	Water Policy & Regulations	
ES 665	Water Resources Management	
NRRM 501	Admin Parks & Recreation	
NRRM 511	Rec Areas & Facilities	
NRRM 530	Environmental Interpreta	
Applied Research Methods/Instrumentation		**3**
Select 3 hours from among:		
NRE 531	Aqua Toxicology	
NRE 500	Soil Fertility/Plant Nutrition	
BSC 501	Ichthyology	
BSC 521	Phycology	
NRRM 502	Assess & Eval Rec Service	
NRRM 551	Plan Design OHV Trails	
NRRM 522	Ther Rec Institu Settings	
Statistics [1]		**3**
Select 3 hours from among:		
STA 512	Regression Analysis	
STA 513	Experimental Designs	
STA 518	Biostatistics	
STA 520	Nonparametric Statistics	
STA 535	Statistical Data Mining	
STA 545	Probability and Statistics I	
STA 634	Stat Mtds for Researchers	
STA 661	Adv Math Statistics	
STA 662	Appl Multivariate Stat Methods	
STA 663	Time Series Forecasting	
NRE 681	Thesis	8
500-level electives [1]		9
600-level electives [1]		6
Total Credit Hours		**36**

[1] If the Statistics class is 500 level, then one of the 500-level electives must be replaced with a 600-level elective. At least 18 hours of the 36 total must be 600-level.

Physical and Applied Sciences, M.S.

Program Description

The Master of Science in Physical and Applied Sciences is intended to provide the opportunity for students with diverse qualifications to improve the depth and breadth of their knowledge in the Physical Sciences. The degree offered is a M.S. in Physical and Applied Sciences, with an Area of Emphasis in one of the following: Geology or Physics for Teachers. An Emphasis is required to complete the major.

The area of emphasis in Geology is designed for individuals seeking a career as an earth scientist. Challenging and rewarding career opportunities occur in three main areas: environmental geoscience, engineering geology, and exploration for natural resources (especially coal, oil, gas).

The area of emphasis in Physics for Teachers is an online program, targeted towards practicing secondary school teachers who wish to become qualified to instruct advanced placement, dual enrollment, or early college courses, as well as towards students interested in becoming Physics teachers.

Admission Requirements

Applicants should follow the admissions process described in this catalog or at the Graduate Admissions website at www.marshall.edu/graduate/admissions/how-to-apply-for-admission (http://www.marshall.edu/graduate/admissions/how-to-apply-for-admission/).

In addition:

- The applicant must have an undergraduate Grade Point Average (GPA) of 3.0 or higher on a 4.0 scale in their major;

- Applicants with a GPA between 2.5 and 3.0 in their major may be provisionally admitted to the program.

Program Requirements

A Plan of Study approved by the student's advisor must be submitted for approval to the dean before the student registers for his or her 12th semester hour. The Plan of Study is a student's "blueprint" for completing graduation requirements.

The writing of a thesis is required in the Geology area of emphasis. The Geology area of emphasis requires 32 hours.

The Physics for Teachers area of emphasis culminates in writing of a thesis or preparation of a teaching work sample project. The Physics for Teachers area of emphasis requires 36 hours.

Consult the individual area of emphases pages for additional requirements.

- Physical and Applied Sciences, Geology Emphasis (p. 330)
- Physics for Teachers, Emphasis (p. 330)

Physical and Applied Sciences, Geology Emphasis

The Geology Area of Emphasis prepares students for careers in environmental geoscience, engineering geology, and natural resource exploration. The curriculum requires a minimum of 32 credit hours, including at least 12 hours of 500-600 level geology courses, 16 hours of 600 level courses, and a maximum of 6 thesis credit hours. Students must pass a qualifying examination in their first semester, complete an approved Plan of Study, and successfully defend a thesis to graduate.

Course Requirements

Code	Title	Credit Hours
Requirements (at least 32 credit hours)		
Approved graduate level GLY courses		12-32
Approved 600-level courses		16-32
GLY 681	Thesis	1-6

Geology Area of Emphasis

1. Students must pass a qualifying examination during the first eight weeks of their first semester of graduate work. The exam will be administered orally by the Geology faculty and will be coordinated by the student's thesis advisor. Students will be allowed two attempts to pass the qualifying exam. If a student fails to pass the qualifying exam on the first or second attempt, the student must withdraw from the program at the end of their first semester and may not reapply to the program until the following academic year.
2. Following successful completion of the qualifying exam, and prior to the end of the first semester of graduate work, students must submit to the Graduate Studies office a Plan of Study approved by the Geology faculty. The plan must include a minimum of 32 hours, at least 16 of which must be earned in 600 level classes. In addition, the curriculum must include at least 12 hours of 500-600 level geology (GLY) courses. The thesis credit (GLY 681) will constitute a maximum of 6 hours.
3. Following approval of the Plan of Study, the student forms a thesis committee with the mutual consent of his/ her advisor. The committee will consist of at least three faculty members with graduate status, at least two of whom are faculty members from the Marshall Geology Department.
4. Following successful passing of the qualifying exam, the student must submit a thesis proposal to his/her committee. The proposal must be approved by the committee no later than the end of the student's second semester of enrollment in the plan.
5. Students will be evaluated by a letter grade in all graduate coursework with the exception of the GLY 681 thesis work, which will be evaluated by a *CR/NC* grade. No candidate will earn his/her degree unless he/she obtains a *"CR"* grade for the thesis.
6. Upon completion of his/her thesis work, the student will submit a draft of his/her thesis approved by his/her advisor to the thesis committee. Guidelines for scientific writing can be found on the departmental website.
7. The candidate must orally present and successfully defend his/ her thesis before his/her thesis committee. The oral presentation will be open to the public. The subsequent question-and-answer session by the committee will focus solely on the student's research, and will be closed to the public. Should the candidate not pass his/ her thesis defense, he/she will be allowed two more attempts at defending the thesis. Conference or meeting presentations will not substitute for the oral defense.
8. The student must submit a final copy of his/her thesis with all revisions requested by the committee members to the committee for final approval.
9. Normal time for completion of the M.S. degree is 2.5 years. A student must complete all requirements for graduation within five calendar years from the date of successful completion of his/her qualifying exam. Otherwise, his/her thesis hours will no longer count toward graduation.
10. A student who fails to satisfy criterion 9 above may petition his/her thesis committee explaining the circumstances behind this delay.

Physics for Teachers, Emphasis

Program Description

The required curriculum is specially designed to consist entirely of asynchronous online courses, offering educators the flexibility to acquire a new degree within their own schedules.

The degree does not have to be completed within a two-year period.

This Area of Emphasis, as all of the university's programs, is covered by the Higher Learning Commission accreditation (https://www.hlcommission.org/) and will not lead to state licensure. Students who don't already have the credentials for teaching physics in K-12 schools and/or colleges should apply separately for a license. Details are at:
https://www.marshall.edu/coepd/student-services/teacher-certification/ and
https://www.marshall.edu/ctl/teaching/certification-in-college-teaching (https://www.marshall.edu/ctl/teaching/certification-in-college-teaching/)

Course Requirements

Non-Thesis Option

Code	Title	Credit Hours
Physics and Physical Science Core Courses		
PS 500	Astronomy	3
PS 500L	Astronomy Laboratory	1
PHY 545	Math Methods of Physics	3
PHY 508	Thermal and Stat Physics	3
PHY 535	Computational Physics	3
PHY 547	Mechanics for Teachers	4
PS 648	Mod Physics for Teachers	3
Elective		**4**
Any 500-600-level Science courses.		
Education Core Courses		
EDF 612	Educational Evaluation	3
EDF 621	Educ Research & Writing	3
EDF 625	Qualitative Research Educ	3
CIRG 615	Writing in Literacy Curriculum	3
A teacher work sample project		
Total Credit Hours		**36**

Thesis Option

Code	Title	Credit Hours
Physics and Physical Science Core Courses		
PS 500	Astronomy	3
PS 500L	Astronomy Laboratory	1
PHY 545	Math Methods of Physics	3
PHY 508	Thermal and Stat Physics	3
PHY 535	Computational Physics	3
PHY 547	Mechanics for Teachers	4
PS 648	Mod Physics for Teachers	3
Education Core Courses		
EDF 612	Educational Evaluation	3
EDF 621	Educ Research & Writing	3
EDF 625	Qualitative Research Educ	3
CIRG 615	Writing in Literacy Curriculum	3
Thesis		
PHY 682	Thesis Research	4
Total Credit Hours		**36**

Physics, Accelerated Graduate Degree

Undergraduates accepted to an Accelerated Graduate Degree (AGD) program can begin taking graduate level classes while still in their undergraduate program. These graduate credits can be used for both the undergraduate and graduate level coursework and will help facilitate an easy and fast transition into a graduate program if a student is accepted. To be accepted into the AGD, please see your advisor to see if you qualify for one of these positions.

Undergraduates accepted into an AGD program can begin taking graduate coursework during their junior or senior year. Programs offering an AGD option may allow up to 12 hours of graduate level coursework to also count towards an undergraduate degree.

Graduate coursework/credit will appear only on the graduate transcript, and graduate course grades will be calculated towards the graduate GPA.

Admission Requirements

Undergraduates accepted to an Accelerated Graduate Degree (AGD) program can begin taking graduate level classes while still in their undergraduate program. These graduate credits can be used for both the undergraduate and graduate level coursework and will help facilitate an easy and fast transition into a graduate program if a student is accepted. To be accepted into the AGD, please see your advisor to see if you qualify for one of these positions.

Undergraduates accepted into an AGD program can begin taking graduate coursework during their junior or senior year. Programs offering an AGD option may allow up to 12 hours of graduate level coursework to also count towards an undergraduate degree.

Students who are interested in the program will be strongly encouraged to meet with an advisor in the department of Physics to plan their schedules carefully since some required courses are offered on a two year rotation.

Graduate coursework/credit will appear only on the graduate transcript, and graduate course grades will be calculated towards the graduate GPA.

Physics, M.S.

Program Description

The Department of Mathematics and Physics at Marshall offers a Master of Science with major in physics, within the Physics and Applied Sciences master's degree program. Students with an undergraduate degree in physics or related fields are encouraged to apply to this major to advance in their knowledge of physics, and to pursue their career goals in industry, government or teaching. The Marshall physics master's major has been designed to meet the needs of students who are either interested in obtaining an M.S. in Physics as their terminal degree, or want to have further graduate study in physics, astronomy or other fields. A master's serves as a bridge to a Ph.D. program. Moreover, graduates with an M.S. in Physics usually are hired into positions which require a high level of problem-solving or technical skills, in the federal or private sector.

Applicants should follow the admissions process described in this catalog or at the Graduate Admissions website at www.marshall.edu/ graduate/admissions/how-to-apply-for-admission (http:// www.marshall.edu/graduate/admissions/how-to-apply-for-admission/ (http://www.marshall.edu/graduate/admissions/how-to-apply-for-admission/)).

In addition:

- The applicant must have an undergraduate Grade Point Average (GPA) of 3.0 or higher on a 4.0 scale in their major;
- Applicants with a GPA between 2.5 and 3.0 in their major may be provisionally admitted to the program.

General Requirement: Students need to complete a minimum of 32 credits with thesis (36 without thesis) with a GPA of 3.0 or better.

Code	Title	Credit Hours
Required Courses		
PHY 600	Electricity and Magnetism I	4
PHY 608	Statistical Mechanics	4
PHY 630	Classical Mechanics	4
PHY 642	Adv Quantum Mechanics	4
PHY 645	Methods of Math. Physics	4
Elective Courses		
Select 6 credit hours of elective courses, among which one Advanced Lab is required		6
Thesis/Non-Thesis Options		
Select one of the following:		6-10
Thesis (6 CH)		
Elective Courses (10 CH)		
Total Credit Hours		**32-36**

Students can choose between the thesis option and non-thesis option to complete the requirements for the M.S. program.

Thesis Option: Research opportunities in the Department of Mathematics and Physics are broad. Faculty members in the department are doing their research in theoretical and experimental condensed matter physics, nanoscience, solar cells, laser physics, optics, gravitational physics and astrophysics. Students can choose to work with one of the faculty members on a research direction the faculty and the students choose. A thesis must be submitted to a committee of 3 faculty members and presented after that in an oral exam.

Non-thesis Option: Students who already complete all required courses and labs and do not want to do a thesis can fulfill the requirement by taking elective courses from the graduate level courses offered by the Physics Department.

School of Library Science

Contacts: Dr. Monica Brooks, Dean; Dr. Anne Casey, Interim Director
Location: 306 Drinko Library
Telephone: 304-696-6474
Website: https://www.marshall.edu/library/

library@marshall.edu

- Library Science, M.S. (p. 333)

Courses

Library Science

LSC 500 Library Foundations **3 Credit hours**
Includes the basics of library careers including topics on library types, information organization, collection development, reference services, library management, and library history.
Grade Mode: Normal Grading Mode

LSC 505 Library Organization **3 Credit hours**
Introduction to practices, tools, and standards for information environments such as information structures, retrieval systems, cataloging, the MARC record, metadata standards, description, subject analysis, vocabularies, and systems for categorization.
Grade Mode: Normal Grading Mode

LSC 510 Library Research Skills **3 Credit hours**
This course covers the techniques to design and implement effective information literacy programs, use discovery tools, perform research, reference interviews, resource evaluation, and deploy innovative teaching techniques.
Grade Mode: Normal Grading Mode

LSC 515 Library Management **3 Credit hours**
Prepares students to lead and evaluate library services; includes topics on organizational structure, basics of personnel management, strategic planning, policy development, external reporting, and metrics for closing the assessment loop.
Grade Mode: Normal Grading Mode

LSC 520 Ethical Librarianship **3 Credit hours**
This course explores ethical challenges for libraries in the digital age, focusing on DEI, community advocacy, legal frameworks, combating misinformation, and AI implications in library settings.
Grade Mode: Normal Grading Mode

LSC 580 Special Topics **3 Credit hours**
This special topics course will cover a specific area of interest in Library and Information Science for the MSLS. Topics will vary based on trends, faculty expertise, and student interest.
Grade Mode: Normal Grading Mode

LSC 581 Special Topics **3 Credit hours**
This special topics course will cover a specific area of interest in Library and Information Science for the MSLS. Topics will vary based on trends, faculty expertise, and student interest.
Grade Mode: Normal Grading Mode

LSC 582 Special Topics **3 Credit hours**
This special topics course will cover a specific area of interest in Library and Information Science for the MSLS. Topics will vary based on trends, faculty expertise, and student interest.
Grade Mode: Normal Grading Mode

LSC 583 Special Topics **3 Credit hours**
This special topics course will cover a specific area of interest in Library and Information Science for the MSLS. Topics will vary based on trends, faculty expertise, and student interest.
Grade Mode: Normal Grading Mode

LSC 585 Independent Study **3 Credit hours**
This course is set as an independent study in Library and Information Science. The independent study will vary based on faculty expertise and student needs.
Grade Mode: Normal Grading Mode

LSC 586 Independent Study **3 Credit hours**
This course is set as an independent study in Library and Information Science. The independent study will vary based on faculty expertise and student needs.
Grade Mode: Normal Grading Mode

LSC 587 Independent Study **3 Credit hours**
This course is set as an independent study in Library and Information Science. The independent study will vary based on faculty expertise and student needs.
Grade Mode: Normal Grading Mode

LSC 588 Independent Study **3 Credit hours**
This course is set as an independent study in Library and Information Science. The independent study will vary based on faculty expertise and student needs.
Grade Mode: Normal Grading Mode

LSC 600 Library Access Services **3 Credit hours**
This course explores strategies and technologies for seamless user access and resource sharing in libraries, enhancing web-based, print, and in-person experiences to improve patron satisfaction and engagement.
Grade Mode: Normal Grading Mode

LSC 605 Collection Development **3 Credit hours**
This course develops proficiency in building, managing, and assessing library collections, covering principles, strategies, budget considerations, and demographic alignment to meet diverse user needs.
Grade Mode: Normal Grading Mode

LSC 610 Library Resource Management **3 Credit hours**
This course introduces practical skills in the latest library technologies, enhancing services for efficient access, organization, and preservation of information resources.
Grade Mode: Normal Grading Mode

LSC 615 Print/Digital Preservation **3 Credit hours**
This course provides an in-depth exploration for preserving cultural heritage and information resources in evolving library landscapes, covering both print and digital formats.
Grade Mode: Normal Grading Mode

LSC 620 Library Marketing Skills **3 Credit hours**
Introduces marketing techniques and programming for various library types and services. Topics include, but are not limited to, messaging, grant writing, and fundraising to enhance library facilities, services, and collections.
Grade Mode: Normal Grading Mode

LSC 625 Library Internship **3-9 Credit hours**
An optional hands-on experience applying theoretical knowledge to practical scenarios while enhancing skills under professional guidance. Current library workers must intern in a different department or library from their area.
Grade Mode: Normal Grading Mode

LSC 650 Special Topics **3 Credit hours**
This special topics course will cover a specific area of interest in Library and Information Science for the MSLS. Topics will vary based on trends, faculty expertise, and student interest.
Grade Mode: Normal Grading Mode

LSC 651 Special Topics **3 Credit hours**
This special topics course will cover a specific area of interest in Library and Information Science for the MSLS. Topics will vary based on trends, faculty expertise, and student interest.
Grade Mode: Normal Grading Mode

LSC 652 Special Topics **3 Credit hours**
This special topics course will cover a specific area of interest in Library and Information Science for the MSLS. Topics will vary based on trends, faculty expertise, and student interest.
Grade Mode: Normal Grading Mode

LSC 653 Special Topics **3 Credit hours**
This special topics course will cover a specific area of interest in Library and Information Science for the MSLS. Topics will vary based on trends, faculty expertise, and student interest.
Grade Mode: Normal Grading Mode

LSC 685 Independent Study **3 Credit hours**
This course is set as an independent study in Library and Information Science. The independent study will vary based on faculty expertise and student needs.
Grade Mode: Normal Grading Mode

LSC 686 Independent Study **3 Credit hours**
This course is set as an independent study in Library and Information Science. The independent study will vary based on faculty expertise and student needs.
Grade Mode: Normal Grading Mode

LSC 687 Independent Study **3 Credit hours**
This course is set as an independent study in Library and Information Science. The independent study will vary based on faculty expertise and student needs.
Grade Mode: Normal Grading Mode

LSC 688 Independent Study **3 Credit hours**
This course is set as an independent study in Library and Information Science. The independent study will vary based on faculty expertise and student needs.
Grade Mode: Normal Grading Mode

Library Science, M.S.

The Master of Science, Library Science (MSLS) is a terminal practicing degree that aligns with current and future needs within WV's library system while also meeting national standards and professional trends in the field. This 30-hour online program can be completed by full-time students within 12 months. Aligning with national association competencies, (no prerequisites and a fixed curriculum format) students will be able to conveniently start the degree in the fall, spring, or summer-- critical for public library employees conducting summer reading programs or students who complete baccalaureate programs in December or May. An internship is optional for individuals seeking hands-on experience in a library setting, and a written comprehensive exam based on the core will be administered during a student's last semester.

Special topics and independent study course numbers can be used immediately by the new MSLS faculty to anticipate trends in the profession to cover specialized areas necessary for job attainment. Aside from the public or technical librarian focus, the following career options have been identified by the literature and Hanover as areas for professional growth. Preparation and training are covered for these niche areas in the proposed courses but may necessitate one or more courses from other MU degree areas:

- Sustainability Librarian
- User Experience Librarian
- Equity, Diversity, and Inclusion Librarian or Director
- Open Educational Resources (OER) Librarian
- Data Visualization Librarian

Admission Requirements

Admissions standards reflect those used in other MU graduate programs and those presented at R1 and R2 institutions in other states

offering this degree. Additionally, they are established at this level aligning with program outcomes to ensure that the university produces ethical and capable practitioners of librarianship who can obtain employment in a special, public, or academic library in the region.

Applicants should follow the admissions process described in this catalog or at the Graduate Admissions website at www.marshall.edu/graduate/admissions/how-to-apply-for-admission. All admission materials must be sent to the Graduate Admissions Office.

In addition, to be admitted to the MSLS program, an applicant must have:

- A bachelor's degree and have a minimum undergraduate grade point average (GPA) of 3.0.
- Three professional letters of recommendation from former instructors or library employers describing the applicant's academic ability or current knowledge of the field.
- A writing sample in the form of a written personal statement not to exceed 1000 words. Personal statements generated by artificial intelligence will not be accepted.
  - Prompt: Introduce yourself and articulate your motivation for pursuing a master's degree in library and information science. Highlight any relevant experiences or skills that have equipped you for this program, and outline your career goals, explaining how this degree will facilitate their achievement. Convey your passion for librarianship and dedication to making meaningful contributions to the field.

Provisional Admission:

- Students with a cumulative undergraduate GPA of 2.75 to 2.99 may still apply and will be admitted on a provisional basis.
- Provisional students who are admitted must maintain a 3.0 or better in their graduate courses for the duration of the MSLS program.
- Admission standards for the School Library track outlined by the College of Education and Professional Development must be met by candidates.

Conditional Admission:

- The MSLS program may admit applicants conditionally for one term, on a limited basis, at the discretion of the program.

Graduation Requirements

Students must complete the required 30 hours listed in the plan of study and pass the competency exam administered in their last semester.

Degree students are expected to maintain a 3.0 Grade Point Average in their courses.

No more than nine hours excluding the optional internship can be substituted for LSC courses (with prior approval) from other graduate degree programs.

Students may obtain graduate certificates in addition to the required LSC courses.

Course Requirements

Code	Title	Credit Hours
Core Courses (12 hours)		
LSC 500	Library Foundations	3
LSC 505	Library Organization	3
LSC 510	Library Research Skills	3
LSC 515	Library Management	3
Focused Courses (18 hours)		
LSC 600	Library Access Services	3
LSC 605	Collection Development	3
LSC 610	Library Resource Management	3
LSC 615	Print/Digital Preservation	3
LSC 620	Library Marketing Skills	3
LSC 520	Ethical Librarianship	3
Optional Internship Course		
LSC 625	Library Internship	3
Optional Special Topics Courses		
LSC 580	Special Topics	3
LSC 581	Special Topics	3
LSC 582	Special Topics	3
LSC 583	Special Topics	3
LSC 650	Special Topics	3
LSC 651	Special Topics	3
LSC 652	Special Topics	3
LSC 653	Special Topics	3
Optional Independent Study Courses		
LSC 585	Independent Study	3
LSC 586	Independent Study	3
LSC 587	Independent Study	3
LSC 588	Independent Study	3
LSC 685	Independent Study	3
LSC 686	Independent Study	3
LSC 687	Independent Study	3
LSC 688	Independent Study	3

CURRICULUM NOTE:

- Relevant substitutions (up to nine hours) among the focused courses will be allowed with permission from both the MSLS program and the academic unit providing substitutions.

Plan of Study

The core and focused LSC courses below will always be offered in the terms listed. A student may enter the program in the fall, spring, or summer.

Fall		Credit Hours
LSC 500	Library Foundations	3
LSC 505	Library Organization	3
LSC 600	Library Access Services	3
LSC 605	Collection Development	3
	Credit Hours	**12**

Spring		
LSC 510	Library Research Skills	3
LSC 610	Library Resource Management	3
LSC 615	Print/Digital Preservation	3
LSC 620	Library Marketing Skills	3
	Credit Hours	**12**
Summer		
LSC 515	Library Management	3
LSC 520	Ethical Librarianship	3
	Credit Hours	**6**
	Total Credit Hours	**30**

Optional Courses

Code	Title	Credit Hours
The following optional courses can be taken in any term:		
LSC 625	Library Internship (optional in place of a focused course only)	3-9
LSC 580	Special Topics	3
LSC 581	Special Topics	3
LSC 582	Special Topics	3
LSC 583	Special Topics	3
LSC 650	Special Topics	3
LSC 651	Special Topics	3
LSC 652	Special Topics	3
LSC 653	Special Topics	3
LSC 585	Independent Study	3
LSC 586	Independent Study	3
LSC 587	Independent Study	3
LSC 588	Independent Study	3
LSC 685	Independent Study	3
LSC 686	Independent Study	3
LSC 687	Independent Study	3
LSC 688	Independent Study	3

School of Medicine

Contacts: Dr. David Gozal, Dean
Website: https://jcesom.marshall.edu/

jcesom@marshall.edu

Programs

- Biomedical Research, M.D./Ph.D. (p. 342)
- Biomedical Research, M.S. (p. 345)
- Biomedical Research, Ph.D. (p. 346)
- Clinical and Translational Science, M.S. (p. 348)
- Medical Science, Graduate Certificate (p. 350)
- Physician Assistant, M.M.S. (p. 351)

Courses

Anesthesia

ANS 800 Anesthesiology **1-18 Credit hours**
You will learn the ability to: obtain pre-operative patient histories including system review, lab tests, and plan of anesthesia; discuss cardiopulmonary evaluations in patients undergoing anesthesia; develop plans for pre-operative, operative and postoperative care and management. You will learn to: describe the pharmacology of the drugs used by anesthesiologists and common techniques in general and regional anesthesia, including but not limited to; standard and invasive anesthesia monitoring; post-operative analgesia regimen; drugs for sedation and analgesia; post-operative PACU standard of care; be familiar with the anatomic and physiologic variable to anesthetic practice; be familiar with perioperative evaluation for patients scheduled for surgery; be familiar with the monitoring devices and pharmacology of anesthesia drugs (sedation and analgesia). *Available to a limited number. Must be arranged at least a month in advance.
Grade Mode: Pass/Fail Grading Mode

ANS 827 Anesthesia Sub-Internship **1-18 Credit hours**
This course will familiarize the student with the anatomic and physiologic variables in anesthetic practice. Will also learn to evaluate patients scheduled for surgery. Students will be introduced to monitoring devices, airway management, and the pharmacology of anesthetic drugs used for general anesthesia and regional anesthesia.
Pre-req: SUR 806.
Grade Mode: Pass/Fail Grading Mode

ANS 858 In-State Externship in Anesthe **1-18 Credit hours**
Clinical course to allow students to complete clinical training at approved sites within the State of West Virginia that is not an MUSOM site.
Grade Mode: Pass/Fail Grading Mode

ANS 868 Out-of-State Extern in Anesthe **1-18 Credit hours**
Clinical course to allow students to complete clinical training at approved sites outside the State of West Virginia that is not an MUSOM site.
Grade Mode: Pass/Fail Grading Mode

Biomedical Research

BMR 601 Intro DNA, RNA & Proteins **3 Credit hours**
A molecular and cell biological study of the structure and function of nucleic acids and proteins.
Grade Mode: Normal Grading Mode

BMR 602 Intro Cells and Metabolism **3 Credit hours**
A molecular and cell biological study of the structure of cells and of cellular metabolism.
Grade Mode: Normal Grading Mode

BMR 603 Regulation Cell Function **2 Credit hours**
An advanced molecular and cell biological study of cell metabolism and the regulation of cell function.
Grade Mode: Normal Grading Mode

BMR 604 Cell Basis of Disease **1 Credit hour**
A molecular and cell biological study of the basis of diseases prevalent in Appalachia
Grade Mode: Normal Grading Mode

BMR 617 BMR Statistics Technique **3 Credit hours**
An application-oriented course in statistical concepts and techniques aimed at prospective researchers in the biomedical sciences.
Grade Mode: Normal Grading Mode

BMR 628 Neuroscience I **3 Credit hours**
To study and understand the structure and function of the nervous system and disorders of neuronal function.
Pre-req: BMR 600 with a minimum grade of C.
Grade Mode: Normal Grading Mode

BMR 629 Neuroscience II **3 Credit hours**
To study and understand the structure and function of the nervous system and disorders of neuronal function.
Pre-req: BMR 628.
Grade Mode: Normal Grading Mode

BMR 631 Neurosci/DevBio Lit Review **1 Credit hour**
Published articles in the neuroscience literature will be presented by all class members. Each presentation will include background introduction methods, results, and discussion of the neuroscience research.
Grade Mode: Credit/No Credit Grade Only

BMR 641 Molecular Development **3 Credit hours**
An in-depth discussion of current literature in developmental biology with emphasis on early embryo development, morphogenesis, lineage determination and regulation of of developmental process.
Pre-req: BIC 628.
Grade Mode: Normal Grading Mode

BMR 644 Research Conduct **1 Credit hour**
Responsible conduct of research, including human subjects, live vertebrate animals, conflict of interest, mentor.mentee responsibilities, collaborative research, peer review, data management, research misconduct, and responsible authorship, with case discussions.
Grade Mode: Credit/No Credit Grade Only

BMR 650 Neurobiology DA I **3 Credit hours**
This graduate level course is designed to give senior undergraduates and graduate students an introduction to the pharmacological, cellular, and molecular components of drug addiction. Topics that will be discussed include: dependence on, tolerance to, and relapse for a range of drugs including opiates, psychostimulants, alcohol, cannabinoids, and nicotine.
Pre-req: BMR 628 (may be taken concurrently) with a minimum grade of C.
Concurrent PR: BMR 628
Grade Mode: Normal Grading Mode

BMR 651 Cancer Biology **4 Credit hours**
An advanced graduate course on the core principles of initiation, progression, treatment and prevention of cancer, based on current literature. (PR: BMR 601, 602, 603, 604, and permission of instructor).
Pre-req: BMR 601 and BMR 602 and BMR 603 and BMR 604.
Grade Mode: Normal Grading Mode

BMR 652 Cancer Biol Colloquium **1 Credit hour**
This is a mentored journal club for graduate students covering selected areas of current interest in cancer biology research.
Grade Mode: Credit/No Credit Grade Only

BMR 660 Communication Bio Sci I **1 Credit hour**
Biomedical graduate students are trained to plan, prepare and deliver effective scientific presentations.
Grade Mode: Credit/No Credit Grade Only

BMR 661 Communication Bio Sci II **1 Credit hour**
Biomedical graduate students are trained to plan, prepare and deliver effective scientific presentations.
Grade Mode: Credit/No Credit Grade Only

BMR 664 ORDRC Colloquim **1 Credit hour**
A seminar course where published articles in the field of obesity and obesity-related diseases are presented and discussed.
Grade Mode: Credit/No Credit Grade Only

BMR 665 CDRC Colloquium **1 Credit hour**
A seminar-style series that will focus on recent advances in topics related to cardiovascular disease.
Grade Mode: Credit/No Credit Grade Only

BMR 674 Teaching Practicum **1 Credit hour**
Students gain experience in teaching using a variety of methods in a supervised setting.
Grade Mode: Credit/No Credit Grade Only

BMR 676 CBR Journal Club **1 Credit hour**
Mentored journal club preparation with monthly presentation in cellular and molecular biology research.
Grade Mode: Normal Grading Mode

BMR 679 Special Problems **1 Credit hour**
Intensive study of a selected topic or problem. Emphasizes independent study.
Grade Mode: Credit/No Credit Grade Only

BMR 680 Seminar **1 Credit hour**
Study and discussion of current topics related to the Biomedical Sciences.
Grade Mode: Credit/No Credit Grade Only

BMR 681 Thesis **1-6 Credit hours**
Grade Mode: Credit/No Credit Grade Only

BMR 785 Intro to Research **1-6 Credit hours**
Directed research activities requiring a completed prospectus for an advanced research project, a written report, or a research thesis. A minimum of three (3) hours required for all M.S. candidates.
Grade Mode: Credit/No Credit Grade Only

BMR 882 Research **1-15 Credit hours**
Grade Mode: Credit/No Credit Grade Only

Clinical Translational Science

CTS 600 Epi Used in Med Research **3 Credit hours**
Practical application of epidemiology and biostatistics used in medical research. The course will primarily focus on the design and analysis of translational studies.
Grade Mode: Normal Grading Mode

CTS 604 Diet Gut Health **1 Credit hour**
Class will examine the role of gut microbiota and diet in maintaining human health.
Grade Mode: Normal Grading Mode

CTS 610 Study Design & Stats **3 Credit hours**
Students will participate in an internship with faculty in providing consultation services in study design and statistics for medical research projects.
Grade Mode: Normal Grading Mode

CTS 611 Machine Learn Journal Club **1 Credit hour**
Articles that describe either clinical or translational research along with machine learning techniques will be discussed. Students are expected to read, describe and present at these fourteen, 1 hour weekly sessions.
Grade Mode: Credit/No Credit Grade Only

CTS 612 Intro Clin Machine Learn **3 Credit hours**
This course is designed for those who are interested in suing machine learning with a focus on translational medical research, which is concerned with bringing bioscience research discoveries into patient care. This course explores the characteristic of its methods, its benefits and limitations. Explain and describe different learning algorithm machine learning journal club is optional.
Grade Mode: Normal Grading Mode

CTS 614 Intro to Clinical Informatics **3 Credit hours**
This course will introduce Redcap, explore relational DB terms, I2B2, a research data warehouse counting tool, and data manipulation using MS SQL queries, functions, procedures along with C# using LINQ.
Grade Mode: Normal Grading Mode

CTS 615 Intro Clinical Databases **3 Credit hours**
This course is an introduction to the concepts of database processing and management especially as it relates to clinical translational research. The focus is to bring bioscience research discoveries into patient care. Primary topics include discussions of major database types, history of databases and database issues, security, database principles, DBMS, RDBMS, SQL queries, Big Data, Marshall Clinical Data Warehouse.
Grade Mode: Normal Grading Mode

CTS 616 Intro Clinical Program C# **3 Credit hours**
Course will present C#, a tool that can be used to manipulate data within the Clinical database using LINQ/other to connect the application to the database. The focus is on translational research, which is concerned with bringing bioscience research discoveries into patient care. This course is designed for those who are interested in medical research programming using console/web/smart-phone application technology.
Grade Mode: Normal Grading Mode

CTS 620 Basic Research Operations **3 Credit hours**
This course will focus on the operation of clinical research trials, providing an overview of the critical aspects involved in all stages of clinical trials.
Grade Mode: Normal Grading Mode

CTS 625 Clinical Operations Lab **1-6 Credit hours**
This course is a hands on experience in Clinical Research trial operation. The course provides an opportunity for students to work with clinical research professionals on FDA-directed clinical trials.
Pre-req: CTS 620.
Grade Mode: Credit/No Credit Grade Only

CTS 628 Intro to Java Cln Prog **4 Credit hours**
The goal of this course is to expose clinical informatics students to programming in Java for common problem solving tasks. This course will focus on topics related to object-oriented programming with emphasis on object oriented design and style, classes, recursion, searching and sorting, simple data structures, and graphical user interfaces.
Grade Mode: Normal Grading Mode

CTS 630 Fundamentals of Team Science **2 Credit hours**
This course offers practical guidance about how best to engage in team science to pursue complex science questions and work effectively with team members.
Grade Mode: Normal Grading Mode

CTS 632 Qualitative Research **1 Credit hour**
This course is designed as an introduction to qualitative research methods. It offers various approaches to designing and conducting qualitative research projects in health and health services research. Students will gain hands-on experience in various qualitative methods adn analysis techniques while carrying out a research project related to their area of interest.
Grade Mode: Credit/No Credit Grade Only

CTS 635 Writing and Peer Review **1 Credit hour**
This course teaches students to become more effective writers of scientific publications.
Grade Mode: Credit/No Credit Grade Only

CTS 637 Introduction to Tableau **3 Credit hours**
Tableau is a business/clinical intelligence tool that makes it easier to process an ever-increasing stream of clinical information through data visualization, data discovery, visual analytics, dashboards, and visual storytelling. In this course, students will learn the fundamentals of creating interactive visual displays using an industry standard visualization tool using real medical data.
Grade Mode: Normal Grading Mode

CTS 640 Clinical Trials Journal Club **1 Credit hour**
This course will be presentations and discussions of the recent literature in the area of clinical trials. Fundamental principles and new discoveries will be emphasized.
Grade Mode: Credit/No Credit Grade Only

CTS 645 Navigating Health IT **3 Credit hours**
The quality of healthcare data is critical to clinical & translational research and medical practice. Getting the right data is difficult without a basic understanding of health information systems (HIS) and medical classification standards. This course provides an overview of these HIS and standards in the healthcare industry and enables gathering and use of HIS data effectively.
Grade Mode: Normal Grading Mode

CTS 650 Rural Clinical Experience **5 Credit hours**
This course will acquaint students with the issues of rural community health and wellness, which will allow them to participate in clinical studies in a rural environment.
Pre-req: CTS 620.
Grade Mode: Credit/No Credit Grade Only

CTS 660 Appalachian Phenotype **3 Credit hours**
The course will describe the clinical presentations, epidemiology and molecular phenotype of disorders common in the Appalachian region.
Grade Mode: Normal Grading Mode

Microbiology

MCB 620 Prin Medical Microbiology **6 Credit hours**
The study of mocroorganisms, immunobiology, immunologic disesases, host resistance and the means by which diseases are produced and prevented.
Grade Mode: Normal Grading Mode

MCB 622 Curr Topics Molec Biology **1 Credit hour**
Critical discussion of current literature/concepts. Participants present published research papers on topics with a molecular biology component. Presentations are followed by discussion/evaluation of the contribution of the research.
Grade Mode: Credit/No Credit Grade Only

MCB 631 Medical Microbiology I **3 Credit hours**
This course will present the major aspects of the field of medical microbiology with emphasis on selected pathogenic organisms.
Pre-req: BMS 600.
Grade Mode: Normal Grading Mode

MCB 632 Medical Microbiology II **2 Credit hours**
This course will present a continuation of the major aspects of the field of medical microbiology with emphasis on the major pathogenic organisms.
Pre-req: BMS 600 and MCB 631.
Grade Mode: Normal Grading Mode

MCB 642 Graduate Microbiology I **4 Credit hours**
An advanced treatment of microbiology with emphasis on the molecular aspects of anatomy, taxonomy, and physiology and genetics of microorganisms.
Grade Mode: Normal Grading Mode

MCB 643 Principles of Immunology **3 Credit hours**
Basic principles of the immune response system of humans and related mammals. Concepts of B & T cell function and interrelationships emphasized.
Grade Mode: Normal Grading Mode

MCB 648 Molec Aspects of Pathogenesis **3 Credit hours**
An in depth study of molecular mechanisms of bacterial, viral, and immune-mediated disease processes.
Grade Mode: Normal Grading Mode

MCB 660 Diagnostic Virology **3 Credit hours**
A comprehensive survey of methodologies used to detect and characterize viral specific antibodies and antigens and the status of cellular immunity in virus infected hosts.
Pre-req: MCB 620.
Grade Mode: Normal Grading Mode

MCB 675 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

MCB 676 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

MCB 677 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

MCB 679 Special Problems **1-3 Credit hours**
Grade Mode: Normal Grading Mode

MCB 720 Microbiology **6 Credit hours**
Grade Mode: Normal Grading Mode

MCB 743 Principles of Immunology **3 Credit hours**
Basic principles of the immune response system of humans and related mammalian representatives. The concepts of B and T cell function and their interrelationships will be emphasized.
Grade Mode: Normal Grading Mode

MCB 780 Elective Special Projects **1 Credit hour**
Grade Mode: Normal Grading Mode

MCB 785 Independent Study **1-15 Credit hours**
Independent Study in Microbiology is designed to allow the student the opportunity to work with a faculty member on a topic of special interest.
Grade Mode: Credit/No Credit Grade Only

MCB 813 Research in Microbiology **1-18 Credit hours**
Attributes: Thesis
Grade Mode: Normal Grading Mode

MCB 814 Clin Lab Microbiol Immun **1-18 Credit hours**
Grade Mode: Normal Grading Mode

Pharmacology

PMC 610 Intro Pharmacology **3 Credit hours**
Grade Mode: Normal Grading Mode

PMC 615 Pharmacology Reviews **1 Credit hour**
Grade Mode: Normal Grading Mode

PMC 620 Medical Pharmacology **8 Credit hours**
An introduction to the basic concepts of drug actions and therapeutic principles governing drug therapy. Emphasis is placed on general mechanisms, therapeutic uses and toxicity of prototypic drugs.
Pre-req: BIC 620.
Grade Mode: Normal Grading Mode

PMC 621 Medical Pharmacology I **6 Credit hours**
This course will encompass the core pharmacology concepts as well as drugs used in the treatment of infectious diseases, cancer, hematological matters, nervous system agents and cardiovascular drugs.
Pre-req: BMS 600.
Grade Mode: Normal Grading Mode

PMC 622 Medical Pharmacology II **2 Credit hours**
This course will encompass the core pharmacology concepts as well as drugs used in the treatment of pulmonary, gastrointestinal, endocrine, renal, and musculoskeletal diseases, drugs specific for mens and womens health, dermatological agents, and toxicology.
Pre-req: BMS 600.
Grade Mode: Normal Grading Mode

PMC 625 Drug Metabolism **3 Credit hours**
Topics will include a discussion of the metabolizing enzymes, enzyme induction and inhibition, toxic metabolites, prodrugs, metabolic disorders and analytical methods for studying drug metabolism.
Grade Mode: Normal Grading Mode

PMC 630 Chem Aspects Pharmacology **3 Credit hours**
An introduction to the chemical principles of pharmacology. The chemical classification, acid-base chemistry and stereochemical properties of drugs and the reactivity of drugs with biological systmes will be discussed.
Grade Mode: Normal Grading Mode

PMC 633 Vistas in Pharmacology **3 Credit hours**
Pre-req: PMC 620.
Grade Mode: Normal Grading Mode

PMC 635 Neuropharmacology **3 Credit hours**
A study of the actions of drugs on the nervous system.
Pre-req: BMS 600.
Grade Mode: Normal Grading Mode

PMC 639 Neuropharm Res Tech **3 Credit hours**
Class participants will be exposed to state-of-the-art neuropharmacology research techniques while in the laboratories of neuropharmacology faculty.
Grade Mode: Credit/No Credit Grade Only

PMC 640 Behavioral Pharmacology **3 Credit hours**
Behavioral methods for assaying drug action.
Pre-req: PMC 635.
Grade Mode: Normal Grading Mode

PMC 643 Intro Cardiopulmonary Pharm **3 Credit hours**
A general overview of the principles of pharmacology and the mechanisms and effects of cardiovascular and respiratory drugs.
Grade Mode: Normal Grading Mode

PMC 645 Adv Cardiopulmonary Pharm **3 Credit hours**
An indepth presentation of pharmacological aspects of cardiovascular and pulmonary systems. Current knowledge, principles and methods used in cardiopulmonary research will be discussed.
Pre-req: PMC 620 or PMC 643.
Grade Mode: Normal Grading Mode

PMC 650 General Toxicology **3 Credit hours**
Pre-req: PMC 620.
Grade Mode: Normal Grading Mode

PMC 655 Toxicology Reviews **1 Credit hour**
This course will provide a presentation and discussion of current literature in the area of toxicology. Fundamental principles and new discoveries will be emphasized.
Grade Mode: Normal Grading Mode

PMC 675 Special Topics **1-4 Credit hours**
Present course material on special areas of research or topics which are not routinely covered in esisting courses.
Grade Mode: Normal Grading Mode

PMC 676 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

PMC 677 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

PMC 720 Medical Pharmacology **8 Credit hours**
Grade Mode: Normal Grading Mode

PMC 780 Elective Special Projects **1 Credit hour**
Grade Mode: Normal Grading Mode

PMC 785 Clinical Pharmacology **1-18 Credit hours**
Independent Study of Pharmacology
Grade Mode: Pass/Fail Grading Mode

PMC 868 PMC Externship **1-18 Credit hours**
Out-of-State Externship
Grade Mode: Pass/Fail Grading Mode

Physician Assistant

PAS 500 Foundations of Medicine **7 Credit hours**
This course develops an understanding of normal physiology, genetics, microbiology, pathology and pathophysiologic concepts of disease per organ system. Knowledge will be applied in subsequent semesters.
Co-req: PAS 520, PAS 530, PAS 550
Grade Mode: Normal Grading Mode

PAS 520 Gross Anatomy for the PA **4 Credit hours**
This course encompasses a comprehensive approach to the study of gross anatomy while incorporating appropriate clinical application to basic organization, structure, sectional, and surface anatomy.
Co-req: PAS 500, PAS 530, PAS 550
Grade Mode: Normal Grading Mode

PAS 530 Pharmacology Principles **3 Credit hours**
This course, the first in a series, develops skills related to applying general principles of pharmacology and pharmacotherapeutics to the treatment and management of disease.
Co-req: PAS 500, PAS 520, PAS 550
Grade Mode: Normal Grading Mode

PAS 550 History and Physical Exam **3 Credit hours**
This course focuses on the medical record and the skills needed to obtain a medical history and perform a complete physical examination. Students will apply knowledge through experiential components.
Co-req: PAS 500, PAS 520, PAS 530
Grade Mode: Normal Grading Mode

PAS 600 Clinical Medicine I **6 Credit hours**
This course, the first in a series, provides intensive study of human diseases and disorders in the selected areas of clinical medicine.
Co-req: PAS 601, PAS 602, PAS 603, PAS 604, PAS 605, PAS 606
Grade Mode: Normal Grading Mode

PAS 601 Pharmacology for the PA I **2 Credit hours**
Aligning with the topics in Clinical Medicine I, this course applies pharmacologic and pharmacotherapeutic principles to the treatments of diseases and disorders studied.
Co-req: PAS 600, PAS 602, PAS 603, PAS 604, PAS 605, PAS 606
Grade Mode: Normal Grading Mode

PAS 602 Clinical Concepts I **2 Credit hours**
Aligning with the topics in Clinical Medicine I, the course deepens knowledge by developing clinical decision making and problem-solving skills in a case-based format.
Co-req: PAS 600, PAS 601, PAS 603, PAS 604, PAS 605, PAS 606
Grade Mode: Normal Grading Mode

PAS 603 Clinical Assessment I **2 Credit hours**
Building upon History and Physical Examination and aligning with topics in Clinical Medicine I, this course applies physical assessment skills to the organ systems being concurrently studied.
Co-req: PAS 600, PAS 601, PAS 602, PAS 604, PAS 605, PAS 606
Grade Mode: Normal Grading Mode

PAS 604 Testing and Procedures I **2 Credit hours**
This course develops diagnostic and therapeutic skills along with essential technical skills and procedures necessary for clinical practice.
Co-req: PAS 600, PAS 601, PAS 602, PAS 603, PAS 605, PAS 606
Grade Mode: Normal Grading Mode

PAS 605 PA's in Health Care **2 Credit hours**
This course provides students with the knowledge and understanding of the history of the Physician Assistant Profession and the development and status of the profession within the US health system.
Co-req: PAS 600, PAS 601, PAS 602, PAS 603, PAS 604, PAS 606
Grade Mode: Normal Grading Mode

PAS 606 PA Evidence Based Practice **2 Credit hours**
This course prepares students to search, interpret, and evaluate the medical literature. Emphasis is placed on life-long learning and the importance of applying gained knowledge to patient care.
Co-req: PAS 600, PAS 601, PAS 602, PAS 603, PAS 604, PAS 605
Grade Mode: Normal Grading Mode

PAS 610 Clinical Medicine II **6 Credit hours**
This course, the second in a series, provides intensive study of human diseases and disorders in the selected area of clinical medicine.
Co-req: PAS 611, PAS 612, PAS 613, PAS 614, PAS 615, PAS 616
Grade Mode: Normal Grading Mode

PAS 611 Pharmacology for the PA II **2 Credit hours**
Aligning with the topics in Clinical Medicine II, this course applies pharmacologic and pharmacotherapeutic principles to the treatments of diseases and disorders studied.
Co-req: PAS 610, PAS 612, PAS 613, PAS 614, PAS 615, PAS 616
Grade Mode: Normal Grading Mode

PAS 612 Clinical Concepts II **2 Credit hours**
Aligning with the topics in Clinical Medicine II, this course deepens knowledge by developing clinical decision making and problem solving skills in a case based format.
Co-req: PAS 610, PAS 611, PAS 613, PAS 614, PAS 615, PAS 616
Grade Mode: Normal Grading Mode

PAS 613 Clinical Assessment II **2 Credit hours**
Building on History and Physical Examination and aligning with the topics in Clinical Medicine II, this course applies physical assessment skills to the organ systems being concurrently studied.
Co-req: PAS 610, PAS 611, PAS 612, PAS 614, PAS 615, PAS 616
Grade Mode: Normal Grading Mode

PAS 614 Testing and Procedures II **2 Credit hours**
This course develops diagnostic and therapeutic skills along with essential technical skills and procedures necessary for clinical practice.
Co-req: PAS 610, PAS 611, PAS 612, PAS 613, PAS 615, PAS 616
Grade Mode: Normal Grading Mode

PAS 615 Health Policy for the PA **2 Credit hours**
This course explores issues of cultural competence, ethics, patient safety, and the political and public health issues that affect patient care for the practicing PA.
Co-req: PAS 610, PAS 611, PAS 612, PAS 613, PAS 614, PAS 616
Grade Mode: Normal Grading Mode

PAS 616 Clinical Specialties I **3 Credit hours**
This course provides an intensive study in the evaluation, diagnosis and treatment of patients in the specialty areas of pediatrics, reproductive medicine and geriatrics.
Co-req: PAS 610, PAS 611, PAS 612, PAS 613, PAS 614, PAS 615
Grade Mode: Normal Grading Mode

PAS 620 Clinical Medicine III **6 Credit hours**
This course, the third in a series, provides intensive study of human diseases and disorders in selected areas of clinical medicine.
Co-req: PAS 621, PAS 622, PAS 623, PAS 624, PAS 625, PAS 626, PAS 627
Grade Mode: Normal Grading Mode

PAS 621 Pharmacology for the PA III **2 Credit hours**
Aligning with the topics in Clinical Medicine III, this course applies pharmacologic and pharmacotherapeutic principles to the treatments of diseases and disorders studied.
Co-req: PAS 620, PAS 622, PAS 623, PAS 624, PAS 625, PAS 626, PAS 627
Grade Mode: Normal Grading Mode

PAS 622 Clinical Concepts III **2 Credit hours**
Aligning with the topics in Clinical Medicine III, this course deepens knowledge by developing clinical decision making and problem-solving skills in a case-based format.
Co-req: PAS 620, PAS 621, PAS 623, PAS 624, PAS 625, PAS 626, PAS 627
Grade Mode: Normal Grading Mode

PAS 623 Clinical Assessment III **2 Credit hours**
Building upon History and Physical Examination and aligning with the topics in Clinical Medicine III, this course applies physical assessment skills to the organ systems being concurrently studied.
Co-req: PAS 620, PAS 621, PAS 622, PAS 624, PAS 625, PAS 626, PAS 627
Grade Mode: Normal Grading Mode

PAS 624 Testing and Procedures III **2 Credit hours**
This course develops diagnostic and therapeutic skills along with essential technical skills and procedures necessary for clinical practice.
Co-req: PAS 620, PAS 621, PAS 622, PAS 623, PAS 625, PAS 626, PAS 627
Grade Mode: Normal Grading Mode

PAS 625 PA Professional Practice **2 Credit hours**
This course focuses on the economics of healthcare, risk reduction, billing and coding, preparing for clinical practice, and interprofessional collaboration.
Co-req: PAS 620, PAS 621, PAS 622, PAS 623, PAS 624, PAS 626, PAS 627
Grade Mode: Normal Grading Mode

PAS 626 Clinical Specialties II **3 Credit hours**
This course provides an intensive study in the evaluation, diagnosis and treatment of patients in the areas of surgery, emergency medicine, and rehabilitative medicine.
Co-req: PAS 620, PAS 621, PAS 622, PAS 623, PAS 624, PAS 625, PAS 627
Grade Mode: Normal Grading Mode

PAS 627 Psychiatry for the PA **2 Credit hours**
This course provides a basic knowledge of psychiatry, psychiatric medical conditions, and special approaches to care for patients with a variety of mental health conditions.
Co-req: PAS 620, PAS 621, PAS 622, PAS 623, PAS 624, PAS 625, PAS 626
Grade Mode: Normal Grading Mode

PAS 650 PA Primary Care I **4 Credit hours**
This rotation provides clinical instruction in primary care in an outpatient medical setting.
Grade Mode: Normal Grading Mode

PAS 651 PA Primary Care II **4 Credit hours**
This rotation provides clinical instruction in primary care in a rural, outpatient setting.
Grade Mode: Normal Grading Mode

PAS 652 PA Psychiatry I **4 Credit hours**
This rotation provides clinical instruction in the care with patients with psychiatric illness and behavioral health disorders. Differing aspects of psychiatric care and medication management are introduced.
Grade Mode: Normal Grading Mode

PAS 653 PA Internal Medicine I **4 Credit hours**
This rotation provides clinical instruction in internal medicine in an inpatient setting. The student will develop an awareness of the complexity of disease processes and different diagnosis.
Grade Mode: Normal Grading Mode

PAS 654 PA Internal Medicine Sub **4 Credit hours**
This rotation provides clinical instruction in an internal medicine sub-specialty.
Grade Mode: Normal Grading Mode

PAS 655 PA Women's Health **4 Credit hours**
This rotation provides clinical instruction in obstetrics and gynecology in both outpatient and inpatient settings.
Grade Mode: Normal Grading Mode

PAS 656 PA Pediatrics **4 Credit hours**
This rotation provides clinical instruction in pediatric primary care.
Grade Mode: Normal Grading Mode

PAS 657 PA General Surgery **4 Credit hours**
This rotation provides clinical instruction in the principles of surgery, pre-operative evaluation and preparatory procedures, post-operative care, and development of surgical skills.
Grade Mode: Normal Grading Mode

PAS 658 PA Emergency Medicine **4 Credit hours**
This rotation provides clinical instruction in emergency medicine.
Grade Mode: Normal Grading Mode

PAS 659 Orthopaedics **4 Credit hours**
This rotation provides clinical instruction in orthopaedics in outpatient and inpatient settings.
Grade Mode: Normal Grading Mode

PAS 660 PA Clinical Elective **4 Credit hours**
This rotation provides clinical instruction in the area of medicine related to the student's clinical or academic interest. Faculty approval is required.
Grade Mode: Normal Grading Mode

PAS 690 Senior Seminar **3 Credit hours**
This course applies medical knowledge, interpersonal skills, patient care skills and professionalism learned in preparation for a student to enter clinical practice.
Grade Mode: Normal Grading Mode

Physiology

PHS 626 Neurophysiology I **1 Credit hour**
To study and understand the basic functional principles of the cells of the nervous system, and organization of cells into functional systems.
Pre-req: BMS 600.
Grade Mode: Normal Grading Mode

PHS 627 Neurophysiology II **1 Credit hour**
To study and understand the major functional systems of the brain.
Pre-req: PHS 626.
Grade Mode: Normal Grading Mode

PHS 628 Mammalian Neurophysiology **2 Credit hours**
This coures is a basic introductory, survey course covering neurophysiology from sub-cellular level to behavioral level.
Grade Mode: Normal Grading Mode

PHS 629 Mammalian Physiology **6 Credit hours**
A study of mammalian systems including pulmonary, renal, cardiovascular, gastrointestinal, endocrinological and nervous systems. Emphasis will be placed on homeostatic mechanisms and on experimental approaches to physiology.
Grade Mode: Normal Grading Mode

PHS 630 Experimental Physiology **1 Credit hour**
A laboratory course in mammalian physiology which includes instruction in surgical preparation, bioinstrumentation technique and open-chest surgery in dogs.
Grade Mode: Normal Grading Mode

PHS 631 Physiology Practicum **2 Credit hours**
Experience in laboratory instruction of medical and graduate students in the mammalian physiology laboratory.
Grade Mode: Normal Grading Mode

PHS 632 Physiology of Sleep **1 Credit hour**
Detailed examination of changes in EEG, EMG, cardiorespiratory function and ocular motility during sleep.
Pre-req: PHS 629.
Grade Mode: Normal Grading Mode

PHS 634 Advanced Neurophysiology **1-2 Credit hours**
Bioelectric potentials. A.C. and D.C. potentials, transcortical potentials,E.E.G., comeo-retinal potential, bloodCSF potential, etc.
Pre-req: PHS 629.
Grade Mode: Normal Grading Mode

PHS 638 Adv Cardiovascular Phys **1-2 Credit hours**
Pre-req: PHS 629.
Grade Mode: Normal Grading Mode

PHS 639 Neurophys Res Tech **3 Credit hours**
Class participants will be exposed to state-of-the-art neurophysiology research techniques while in the laboratories of neurophysiology faculty.
Grade Mode: Credit/No Credit Grade Only

PHS 661 Endocrinology **3 Credit hours**
An in depth study of the endocrine system with special emphsis on the role of experimentation in the development of concepts in endocrine physiology (PR: BMS 600 or Equivalent; Permission)
Pre-req: BMS 600.
Grade Mode: Normal Grading Mode

PHS 666 Physiology of the Cell **3 Credit hours**
An in-depth study of selected specific topics in cell physiology.
Pre-req: BMS 600.
Grade Mode: Normal Grading Mode

PHS 667 Experimental Appr to Phys **4 Credit hours**
This course introduces students to the fundamental principles and research underlying the normal functioning of the cardiovascular, respiratory, renal, endocrine, reproductive, nervous, and gastrointestinal systems.
Grade Mode: Normal Grading Mode

PHS 675 Special Topics **1-4 Credit hours**
Present course material on special areas of research or topics which are not routinely covered in existing courses.
Grade Mode: Normal Grading Mode

PHS 676 Special Topics **1-4 Credit hours**
Present course material on special areas of research or topics which are not routinely covered in existing courses.
Grade Mode: Normal Grading Mode

PHS 677 Special Topics **1-4 Credit hours**
Present course material on special areas of research or topics which are not routinely covered in existing courses.
Grade Mode: Normal Grading Mode

PHS 701 Physiology **8 Credit hours**
Grade Mode: Normal Grading Mode

PHS 780 Elective Special Projects **1 Credit hour**
Grade Mode: Normal Grading Mode

PHS 785 Independent Study **1-15 Credit hours**
Independent Study in Physiology is designed to allow the student the opportunity to work with a faculty member on a topic of special interest.
Grade Mode: Credit/No Credit Grade Only

PHS 820 Medical Physiology **1-18 Credit hours**
Grade Mode: Normal Grading Mode

Biomedical Research, M.D./ Ph.D.

The Biomedical Sciences and Clinical and Translational Sciences departments of the Joan C. Edwards School of Medicine offer the following degrees: Doctor of Philosophy (Ph.D.), M.D./Ph.D., and Master of Science (M.S.), both thesis and non-thesis.

The primary goal of the Biomedical Research (BMR) program is to use biomedical and translational research approaches to help reduce the numerous health disparities and improve the health of the population in West Virginia and central Appalachia. To do this, students will take an interdisciplinary approach with defined interests and special in-depth training in one of the following research areas of emphasis: Cardiovascular Disease; Cell Biology; Obesity and Related Diseases; Neurobiology and Addiction; and Toxicology and Environmental Health. These areas are designed to be flexible and research oriented in order to develop the interests, capabilities and potential of all students pursuing careers in academic, government, or industrial biomedical sciences.

In addition, the BMR program offers a non-thesis Master of Science degree with a medical sciences area of emphasis to improve the science foundation of students seeking admission into doctoral programs in medicine or other health-related professions. Admission into the BMR M.S. Medical Sciences program does not guarantee admission into medical school. Additionally, a research component to this area of emphasis is available, but not required. Students choosing the research component may work up to 19 hours per week while earning a minimum of $10/hour. Students are expected to stay in good academic standing.

Also offered is the combined M.D./Ph.D. Students in this program blend the discovery of new knowledge with clinical medicine at the intersection of science and medicine. M.D./Ph.D. Most graduates work as physician-scientists at medical schools, conducting disease-related research and applying the results to the treatment of patients. They have a unique perspective on both the basic science and clinical science behind disease. Further general information is available at the Association of American Medical Colleges website (aamc.org (http://www.aamc.org)).

Biomedical Research, M.D./Ph.D.

The Joan C. Edwards School of Medicine offers a combined M.D./Ph.D. degree in partnership with the Biomedical Sciences Graduate Program at Marshall University. The curriculum takes seven to eight years to complete. Students first take years one and two of medical school. During that time they complete the requirements for BMR 785 Intro to Research. After passing the USMLE Step I exam at the end of year two, students begin their Ph.D. coursework and research. This takes three to four years. After completing the Ph.D. requirements, students then complete years three and four of medical school. All of the requirements for both the M.D. and Ph.D. degrees must be met.

The medical student course MDC 710 Elements of Medicine meets the requirements for BMR 601 Intro DNA, RNA & Proteins, BMR 602 Intro Cells and Metabolism, BMR 603 Regulation Cell Function, and BMR 604 Cell Basis of Disease. Other medical school courses can meet area of emphasis requirements, as determined by the student's advisory committee and the Graduate Studies Committee.

Admission Requirements

Applicants must meet the admission requirements of both Marshall University Graduate Admissions (http://marshall.edu/admissions/graduate/) (http://marshall.edu/admissions/graduate/)/) - and the Biomedical Research program of the Marshall University Joan C. Edwards School of Medicine https://jcesom.marshall.edu/research/.

Applicants are directed to apply through the Biomedical Sciences Centralized Application System (BioMedCAS, https://biomedcas.liaisoncas.org/). Completion of a secondary application once admitted is also required; instructions will be sent from the department to the applicant. Interested persons should visit https://jcesom.marshall.edu/research (https://jcesom.marshall.edu/research/), e-mail mubiomed@marshall.edu, and/ or call 304-696-3365.

Biomedical Research M.D./Ph.D. Applications

Applicants interested in pursuing the combined degree should indicate this on their medical school AMCAS application.

The AMCAS application period is from June 1 to November 1, with supplemental material due by December 15.

Applications are accepted on a rolling basis and reviewed November 1 through December 15. Final decisions will be made by January 31. Applications and supplemental material will not be accepted beyond the above deadlines. A separate M.D./ Ph.D. admissions subcommittee will review the applications.

Consistent with JCESOM MD program admissions policy, all applicants are required to take the MCAT. An MCAT score of 498 or better is preferred. Provided they meet the requirements for not taking the MCAT, students from the JCESOM Medical Sciences Pathway Program who have fulfilled both the criteria for admittance to the MU JCESOM M.D. program and who have extensive research experience (e.g., co-authorship in multiple publications in peer reviewed journals) will be considered for interviews.

Graduate Assistantships for the Doctor of Philosophy Program

Accepted Ph.D. students receive tuition remission, an annual stipend, and health insurance, which are renewable for up to five years. Students also have access to Marshall University's Student Health Clinic. Students are required to pay some fees each term.

Admission to Candidacy

Admission to graduate study and enrollment in graduate courses does not guarantee acceptance as a candidate for the Doctor of Philosophy degree. This is only accomplished by satisfactorily passing a comprehensive qualifying examination and meeting all other specified requirements. The qualifying examination assesses whether the student has attained sufficient knowledge to undertake independent research. The examination should be completed at the end of the second year of study. The examination consists of written and oral components covering all areas specified in the Course of Study. The examination is prepared, administered and graded by the advisory committee. The written portion includes all coursework and relevant

topics determined by the advisory committee. The student will be given 2-3 days to complete the written component of the examination.

Upon passing the written examination, the student must submit a grant proposal on the topic of his/her dissertation research or a related topic approved by the advisory committee. The proposal must be in the style of an National Institutes of Health (NIH) Predoctoral grant proposal. Links to the instructions for the proposal format can be found on the BMR Graduate Program website. The grant proposal must be submitted within two months of completion of the written exam and given to the advisory committee members at least two weeks in advance of the oral defense. The oral examination consists of a defense of the grant proposal and, at the discretion of the advisory committee, may include topics from the written portion of the exam in which the student was deemed to be deficient. Successful completion of the qualifying examination is based on approval of the committee. Only one dissenting vote is permitted on each component. If necessary, a single portion of the examination may be repeated at the discretion of the advisory committee. The student must have the approval of the advisory committee to repeat either the written or oral component of the qualifying examination. The committee assesses the deficiencies and determines the time required for the student to make corrections. A student may take a given component of the qualifying examination no more than three times. Failure to pass this examination on the third attempt will result in dismissal from the BMR Ph.D. program. The advisory committee must complete an Admission to Candidacy for Ph.D. form after the student completes the examinations and submit it for approval by the director of graduate studies and the dean of the college.

Program Requirements

Advisory Committee for Ph.D. Students

The advisory committee should be formed no later than the end of the first year of graduate education or upon completion of 18 semester hours of credit. As soon as the committee has been identified, an Approval for Dissertation Topic and Committee Membership form is completed and submitted to the director of graduate studies and the dean of the college.

The advisory committee will be selected by the student and research advisor, with approval from the director of graduate studies and the dean of the college required. The committee will be composed of at least five faculty members with appropriate expertise; one of the members may be from another institution. The student's research advisor will act as the chairperson of the committee.

Approval of Course of Study

It is essential for the student and advisory committee to carefully define a Course of Study by the end of the first year. This is considered a basic contract between the student and the program and includes:

1. Proposed dissertation topic;
2. All transfer credits;
3. Required and elective courses to be taken at Marshall University.; and
4. All competencies to be achieved by the student during graduate study.

These details must be recorded on the Ph.D. Course of Study form and submitted for approval by the director of graduate studies and the dean of the college.

Academic Performance for all BMR Graduate Students

- Maintain a minimum of a 3.0 Grade Point Average (GPA). No more than six hours of *C* and no grades below *C* may be applied toward the degree.
- If the GPA falls below 3.0, the student will be placed on academic probation. Following notification of probation, the student will be counseled by his/her advisor. At this time, the deficiency will be identified and a written plan will be prepared for removing it within the next nine semester hours. This plan, co-signed by the student and the advisor, must be approved by the Graduate Studies Committee and Director of Graduate Studies before the student can register for additional coursework.
- If probationary status is not removed within nine semester hours, the dean of the college, in consultation with the vice dean for research and graduate education and the graduate studies committee, will determine whether the student is retained or dismissed from the program. Retention must be recommended by the advisor and student's advisory committee and endorsed by the graduate studies committee.

Transfer Credit

The student may transfer credits completed at other regionally accredited graduate institutions. Approval of the graduate studies committee and the dean of the college is contingent on the following:

1. the grades earned were *B*'s or better;
2. the credits are appropriate to the student's program and acceptable to the advisory committee; and
3. the time limitations were not exceeded.

The number of transfer hours acceptable for the Ph.D. degree will be determined by the student's advisory committee and should not exceed 12 credit hours. Approval must be received from both the Graduate Studies Committee and the Dean of the Graduate College. Transfer credit will not become part of the Marshall University Grade Point Average.

Transfer of credits should be accomplished as early as possible. This should be accomplished when the student submits an approved Course of Study form (Ph.D.) or an approved Plan of Study form (M.S.). Attempts to transfer credits during the last semester may delay graduation. Official transcripts must be on file in the Graduate Studies office by the date that grades are due in the Marshall University Registrar's Office.

Validation of Outdated Coursework

The advisory committee has the option to require validation, by special examination, of courses that members deem to be outdated.

Time Limitations

Students must meet all requirements for the Doctor of Philosophy degree within seven years from the date of enrollment in the first course to be used in the degree program. The Graduate Dean may grant an extension upon recommendation by the Graduate Studies Committee. Absence due to military obligations, long serious illnesses, or similar circumstances beyond the student's control may be considered valid reasons for an extension. It is the option of the advisory committee to require validation of outdated courses by special examination.

Dissertation

All candidates must successfully complete a biomedical research project and prepare, submit, and defend a dissertation. The dissertation must present the results of the candidate's individual investigation and make a definite contribution to the current state of knowledge. While conducting research and writing a dissertation, the student must register for Research (BMR 882 Research) at the beginning of each semester or summer term for which progress is to be earned. No more than 15 hours of Research may be credited toward the degree.

Candidates are to follow the general guidelines outlined in *Publishing Your Dissertation: How to Prepare Your Manuscript for Publication and General Information About Dissertations*. Copies of these documents are on file in the Office of Research and Graduate Education. Candidates must also follow the current Guide for Preparation and Submission of Electronic Theses and Dissertations, which can be downloaded from the Graduate Studies website.

Oral Defense of the Dissertation

The oral defense of the dissertation is held during the semester or summer session in which all other degree requirements have been met. The advisory committee must read and tentatively approve the dissertation before the examination can be scheduled. The committee chairperson will complete an Approval to Schedule Dissertation Defense form and submit it for approval of the Director of Graduate Studies and the Dean of the Graduate College before the examination can be given. Such notification must occur at least two weeks before the proposed date of the defense. A portion of the defense is an open examination and sufficient time is required for adequate public notice.

The open examination usually takes the form of a one-hour seminar. This is followed by a thorough review of the dissertation by the advisory committee and the candidate. Successful completion of the defense requires the approval of all but one of the members of the advisory committee. The results (pass/fail) must be recorded on a Results of Dissertation Examination form, which is to be reported to the Office of Research and Graduate Education and forwarded to the Graduate Studies office within 24 hours. Should the candidate fail the defense, reexamination may not be scheduled without the approval of the advisory committee, the Director of Graduate Studies, and the Dean of the Graduate College.

All advisory committee members are to be present for the defense. If this is not possible, the Dean of the Graduate College, or designee, may permit one substitute for any member of the committee except the chairperson. A request for a substitute must be submitted in writing to, and approved by, the Director of Graduate Studies and the Dean of the Graduate College. The committee chairperson, the student, and both the original member of the committee to be replaced, and the substitute must sign this request. The substitute must have the same, or higher, graduate faculty status as the original member and represent the same academic discipline or area of emphasis.

Acceptance of Dissertation

Acceptance of the dissertation is a requirement for the doctoral degree. An accepted dissertation must bear the original signatures of at least all but one member of the advisory committee. If more than one member cannot approve the dissertation, the doctoral degree cannot be recommended. If the substitute member attends and approves the dissertation defense, he or she signs the dissertation. For complete information on the preparation and submission of electronic theses and dissertations see www.marshall.edu/graduate/current-students/edt (http://www.marshall.edu/graduate/current-students/edt/).

Survey of Earned Doctorates

Students are asked to complete and submit the online Survey of Earned Doctorates. Survey of Earned Doctorate information is used by a number of government agencies to assess the state of doctoral education in the U.S., and also to inform their decisions concerning funding of U.S. graduate institutions. The online survey is available at https://sedsurvey.org/.

Publication

All doctoral dissertations and their abstracts will be microfilmed through ProQuest. This requirement cannot be satisfied by any other publication, but other publication of material in the dissertation is both permitted and encouraged.

Process Summary

1. Inquiry from prospective student to the Biomedical Research graduate program or Graduate Admissions office.
2. Receipt of the following official application materials and required fee by the Graduate Admissions office: application, GRE scores, and transcript(s). International applicants must meet the application requirements of the Office of International Student Services.
3. Receipt of the program online form, written statement addressing educational and career goals, and three recommendations in the Office of Research and Graduate Education by March 1.
4. The Ph.D. Admissions Committee will review completed applications, then interview the top applicants.
5. The Biomedical Research Graduate Program notifies the Graduate Admissions Office and the applicant of the decision of the Admissions Committee.
6. The accepted student arrives in July for boot camp, starts their first laboratory rotation, and registers for coursework.
7. An advisor is selected by the end of the first year. After the dissertation advisor has been selected, an advisory committee is formed. A Ph.D. Course of Study should be completed by the start of the second year.
8. The student completes requisite coursework and other program requirements.
9. The student takes written and oral qualifying examinations for admission to candidacy to the Ph.D. These examinations should be scheduled within two months of each other.
10. The student continues doctoral research under the guidance of his/her advisory committee. The dissertation phase begins with the approval of a dissertation project by the advisory committee, the Biomedical Research graduate program, and the college dean.
11. The student applies for graduation at the beginning of his or her last semester, no later than the university deadline. The diploma fee must be paid by this time.
12. A copy of the preliminary draft of the dissertation is given to each member of the advisory committee no later than two weeks prior to the final defense of the dissertation.
13. The chair of the advisory committee requests approval for the defense from the Biomedical Research graduate program and the college no later than two weeks before the scheduled date of the defense.

14. The time and place of the defense of the dissertation are announced.
15. The student defends the dissertation in an oral defense.
16. The student follows the steps to prepare and submit the electronic thesis or dissertation at www.marshall.edu/graduate/current-students/edt (http://www.marshall.edu/graduate/current-students/edt/).

Biomedical Research, M.S.

Program Description

The primary goal of the Biomedical Research (BMR) program is to use biomedical and translational research approaches to help reduce the numerous health disparities and improve the health of the population in West Virginia and central Appalachia. To do this, students will take an interdisciplinary approach with defined interests and special in-depth training in one of the following research areas of emphasis: Cardiovascular Disease; Cell Biology; Neurobiology and Addiction; Obesity and Related Diseases; Toxicology and Environmental Health; and Medical Sciences Research. These areas are designed to be flexible and research oriented in order to develop the interests, capabilities and potential of all students pursuing careers in academic, government, or industrial biomedical sciences.

In addition, the BMR program offers a non-thesis Master of Science option with a Medical Sciences area of emphasis to improve the science foundation of students seeking admission into doctoral programs in medicine or other health-related professions. Admission into the BMR M.S. Medical Sciences emphasis does not guarantee admission into medical school. Additionally, a research component to this area of emphasis is available, but not required. Students are expected to stay in good academic standing.

Admission Requirements

Applicants must meet the admission requirements of Marshall University Graduate Admissions - marshall.edu/admissions/graduate/ (http://marshall.edu/admissions/graduate/) - and the Biomedical Research program of the Marshall University Joan C. Edwards School of Medicine - https://jcesom.marshall.edu/research (https://jcesom.marshall.edu/research/). Interested persons should visit https://jcesom.marshall.edu/research (https://jcesom.marshall.edu/research/), e-mail mubiomed@marshall.edu and/or call 304-696-3365.

Biomedical Research, M.S. (Non-Thesis) Medical Sciences, and Medical Sciences Research Areas of Emphasis: Interested persons should visit https://jcesom.marshall.edu/students/ms-in-biomedical-research-with-medical-sciences-emphasis/, e-mail mubiomed@marshall.edu, (medicalsciences@marshall.edu) and/or call 304-696-3365.

Biomedical Research M.S. Applicants

Minimum Admission Requirements

- A baccalaureate degree from a regionally accredited college or university
- Successfully completed, with a grade of *C* or better, one year of general biology, physics, general chemistry, and organic chemistry, all with associated laboratories. A semester of biochemistry or molecular biology is also required.
- A recommended minimum Grade Point Average (GPA) of 3.0
- A recommended minimum GPA of 3.0 in combined science and math courses
- Official transcript(s) from undergraduate degree granting institution(s). Transcripts for post-baccalaureate or graduate coursework may be required at the discretion of the program.
- Program materials: three recommendations, program online form, written statement addressing educational and career goals, CV/resume

The GRE is not required; however, GRE scores can be submitted to strengthen your application. Applications are accepted on a rolling basis and are reviewed until the class is filled. Applications are only considered once we have received all required documentation.

Applications are accepted on a rolling basis and are reviewed until the class is filled. Applications will be considered after the priority deadline until June 30, if openings are available. International applicants should adhere to the deadlines set in place by the Office of International Admissions.

Biomedical Research, M.S. (Non-Thesis) Medical Sciences, or Medical Sciences Research Areas of Emphasis: Students are admitted in both the fall and spring terms. Applications are accepted on a rolling basis and are reviewed until the class is filled. The application deadline for fall admission is June 30. The application deadline for spring admission is December 1. International applicants should adhere to the deadlines set by the Office of Admissions.

Conditional Admission

The Biomedical Research M.S. program may admit applicants conditionally, for one term, pending receipt of final, official bachelor's degree transcript with degree awarded.

Duration of Degree Program

Students are expected to complete the degree within two years. This includes the summer between years one and two for M.S. (thesis) students.

Program Requirements

Degree Requirements

All students are required to meet the general requirements of the university for receipt of a master's degree. To remain in good academic standing and to graduate, the student must have a minimum graduate GPA of 3.0.

In addition, after 12 hours of coursework has been completed, the student must submit an M.S. Plan of Study form to the College.

Thesis Option

A minimum of 32 credit hours is required for the thesis option with no more than six hours of thesis (BMR 681 Thesis) credited toward the 32 credit hour requirement. Each student will specialize in one of the six areas of emphasis:

- Cardiovascular Disease
- Cell Biology
- Medical Sciences Research
- Neurobiology and Addiction
- Obesity and Related Diseases
- Toxicology and Environmental Health

Advisory Committee for M.S. (Thesis) Students

The advisory committee should be formed no later than the end of the first year of graduate education. As soon as the committee has been identified, a Thesis Committee Formation form is completed and submitted to the Director of Graduate Studies.

The advisory committee will be selected by the student and research advisor, with approval from the Director of Graduate Studies required. The committee will be composed of at least three faculty members with appropriate expertise; one of the members may be from another institution. The student's research advisor will act as the chairperson of the committee.

Non-Thesis Option (Medical Sciences, or Medical Sciences Research, Area of Emphasis)

A minimum of 36 credit hours is required for the non-thesis degree. In addition, the student must pass a written comprehensive examination covering their courses.

Plan Of Study (Thesis option)

All thesis option students are required to successfully complete the following core curriculum. The Thesis option requires a minimum of 32 credit hours.

Code	Title	Credit Hours
Core Curriculum		
BMR 601	Intro DNA, RNA & Protiens	3
BMR 602	Intro Cells and Metabolism	3
BMR 603	Regulation Cell Function	2
BMR 604	Cell Basis of Disease	1
BMR 617	BMR Statistics Technique	3
BMR 644	Research Conduct	1
BMR 660	Communication Bio Sci I	1
or BMR 661	Communication Bio Sci II	
BMR 680	Seminar (minimum of 4 hours)	4
BMR 785	Intro to Research	4
Total Credit Hours		**22**

In addition, the student must successfully complete other courses required by his/her area of emphasis and advisory committee.

Plan of Study (Non-Thesis Option, Medical Sciences or Medical Sciences Research Areas of Emphasis)

Code	Title	Credit Hours
Core Curriculum		
BMR 601	Intro DNA, RNA & Protiens	3
BMR 602	Intro Cells and Metabolism	3
BMR 603	Regulation Cell Function	2
BMR 604	Cell Basis of Disease	1
BMR 785	Intro to Research	3
BMS 605	Micro Pharm Med Sciences	5
Total Credit Hours		**17**

Code	Title	Credit Hours
Medical Sciences Area of Emphasis		
ACB 622	Gross Anat/Embryology II	6
BMS 634	Biostat Epidem Med Sci	2
PHS 629	Mammalian Physiology	6
PMC 621	Medical Pharmacology I	6
PMC 622	Medical Pharmacology II	2
Electives 0-12 BMR, BMS, CTS, PHS, PMC PHS with Advisor approval		0-12
Total Credit Hours		**22-34**

Code	Title	Credit Hours
Medical Sciences Research Area of Emphasis		
PHS 667	Experimental Appr to Phys	4
CTS 600	Epi Used in Med Research	3
BMR 882	Research (2-4 Credits per semester)	9
CTS 630	Fundamentals of Team Science	2
BMR 644	Research Conduct	1
Electives 0-12 hours BMR, BMS, CTS, PMC, PHS, ACB with Advisor approval		0-12
Total Credit Hours		**19-31**

Students in the Medical Sciences, and Medical Sciences Research Areas of Emphasis must pass the comprehensive final examination.

Biomedical Research, Ph.D.

Program Description

The Biomedical Sciences and Clinical and Translational Sciences departments of the Joan C. Edwards School of Medicine offer a Doctor of Philosophy (Ph.D.), in Biomedical Research.

The primary goal of the Biomedical Research (BMR) program is to use biomedical and translational research approaches to help reduce the numerous health disparities and improve the health of the population in West Virginia and central Appalachia. To do this, students will take an interdisciplinary approach with defined interests and special in-depth training in one of the following research areas of emphasis: Cardiovascular Disease; Cell Biology; Obesity and Related Diseases; Neurobiology and Addiction; and Toxicology and Environmental Health. These areas are designed to be flexible, and research oriented in order to develop the interests, capabilities and potential of all students pursuing careers in academic, government, or industrial biomedical sciences.

The doctorate is a research or performance degree and does not depend solely on the accumulation of credit hours. The degree requirements are admission to candidacy, and successful completion and defense of a dissertation. The degree signifies that the holder has the competence to function independently at the highest professional level.

The PhD in Biomedical Research requires that an Area of Emphasis be selected. Please select from one of the following:

- Cardiovascular Disease
- Cell Biology
- Neurobiology and Addiction
- Obesity and Related Diseases
- Toxicology and Environmental Health Sciences

Admission Requirements

Applicants must meet the admission requirements of both Marshall University Graduate Admissions - marshall.edu/admissions/graduate/ (http://marshall.edu/admissions/graduate/) - and the Biomedical Research program of the Marshall University Joan C. Edwards School of Medicine - https://jcesom.marshall.edu/research (https://jcesom.marshall.edu/research/). Applicants are directed to apply through the Marshall University Graduate Admissions (Apply - Admissions (marshall.edu) (https://www.marshall.edu/admissions/apply/)). Interested persons should visit https://jcesom.marshall.edu/research (https://jcesom.marshall.edu/research/), e-mail mubiomed@marshall.edu and/or call 304-696-3365.

Biomedical Research Ph.D. Application Requirements:

Minimum Admission Requirements

- A baccalaureate degree from an accepted, accredited college or university
- Successful completion, with a grade of *C* or better, of one year each of general biology, physics, general chemistry, and organic chemistry, all with associated laboratories. A semester of biochemistry or molecular biology is also required.
- A recommended minimum Grade Point Average (GPA) of 3.0
- A recommended minimum GPA of 3.0 in combined science and math courses
- Official transcript/s from degree-granting institution/s; other transcripts may be required
- A written statement addressing educational and career goals
- A CV / resume
- Three recommendations from professors / research mentors

The GRE is not required; however, GRE scores can be submitted to strengthen your application.

Applications are accepted on a rolling basis and are reviewed until the class is filled. Applications will be considered until June 30, if openings are available. International applicants should adhere to the deadlines set in place by the Office of International Admissions. The Biomedical Research Ph.D. program is highly competitive; thus, early applications provide the best chance for acceptance.

Conditional Admission

The Biomedical Research Ph.D. program may admit applicants conditionally, for one term, pending receipt of final, official bachelor's degree transcript with degree awarded.

Duration of Degree Program

Doctoral degree students are expected to complete the requirements within five years. Students who possess an M.S. degree in Biomedical Research or the equivalent when admitted into the doctoral degree program generally require three to four years to complete the Doctor of Philosophy degree.

Entry Term

Preferred matriculation of BMR Ph.D. students is July (summer III term). The first week will be devoted to orientation and Preparation for Graduate Academics (PGA) Boot Camp. This allows students to learn more about research opportunities, get to know their cohort and current students, acclimate to a new environment, and get a head start on their research rotations. On a case-by-case basis fall or spring matriculation can also be considered.

Program Requirements

Before graduating, students are required to write and publish three peer-reviewed manuscripts, two of which must be as first author.

To remain in good academic standing and to graduate, the student must have a minimum graduate GPA of 3.0.

Students also have to write and defend a dissertation.

Plan of Study

To qualify for the Doctor of Philosophy degree, the student must pass (*C* or better or *CR*) the following courses:

Code	Title	Credit Hours
BSC 640	Cell Bio & Biotechnology [1]	3
BMR 617	BMR Statistics Technique	3
BMR 644	Research Conduct	1
BMR 660	Communication Bio Sci I	1
BMR 661	Communication Bio Sci II	1
PHS 667	Experimental Appr to Phys	4
BMR 680	Seminar (minimum of 6 hrs.)	6
BMR 785	Intro to Research	3
BMR 882	Research	30-90
Cluster and committee requirements		6-15
Total Credit Hours		**58-127**

[1] Students may substitute the combination BMR 601, BMR 602, BMR 603, and BMR 604 to replace BSC 640.

The clusters each have their own core requirements that must be fulfilled. Also, each committee may decide that the students should take a particular elective class. The committee's requirements will be outlined as part of the plan of study and can include any graduate level course with the following department designations: ACB, BMR, BMS, BSC, CTS, MCB, PMC, PHS. Courses from other departments will require approval by the Office of Research and Graduate Education.

In addition, the student must successfully complete other courses required by his/her/their area of emphasis and advisory committee. All courses will be defined in the student's Ph.D. Course of Study form. The student must also pass a written and oral exam prior to becoming a Ph.D. candidate. These exams are set by the student's graduate committee.

- Cardiovascular Disease (p. 348)
- Cell Biology (p. 348)
- Neurobiology and Addiction (p. 348)

- Obesity and Related Diseases (p. 348)
- Toxicology and Environmental Health Sciences (p. 348)

Cardiovascular Disease

Cardiovascular Disease Research Cluster Requirements:

Code	Title	Credit Hours
PHS 666	Physiology of the Cell	3
BMR 665	CDRC Colloquium (3 times)	3

Cell Biology

Cell Biology Research Cluster Requirements:

Take a minimum of 6 hours of the following courses; one course from list A and three
credit hours from list B.

List A

Code	Title	Credit Hours
BMR 651	Cancer Biology	4
PHS 666	Physiology of the Cell	3

List B

Code	Title	Credit Hours
BMR 676	CBR Journal Club	1
BMR 652	Cancer Biol Colloquium	1
BMR 631	Neurosci/DevBio Lit Review	1
ACB 640	Current Topics Cell Biol	1-3
MCB 622	Curr Topics Molec Biology	1

The courses in list B are all reviews of current literature, and can be taken multiple times.

Neurobiology and Addiction

Neurobiology and Addiction Cluster Requirements:

Code	Title	Credit Hours
BMR 650	Neurobiology DA I	3
BMR 631	Neurosci/DevBio Lit Review (3 times)	3

Obesity and Related Diseases

Obesity and Related Diseases Research Cluster Requirements:

Code	Title	Credit Hours
PHS 666	Physiology of the Cell	3
BMR 664	ORDRC Colloquim (3 times)	3

Toxicology and Environmental Health Sciences

Toxicology and Environmental Health Research Cluster Requirements:

Code	Title	Credit Hours
PMC 650	General Toxicology	3
PMC 655	Toxicology Reviews (3 times)	3

Clinical and Translational Science, M.S.

Program Description

The Clinical and Translational Science (CTS) Department in the Marshall University Joan C. Edwards School of Medicine offers a Master of Science (M.S.) degree in Clinical and Translational Science. The goal of this program is to equip physicians in-training and other biomedical scientists with the information and training they need to translate basic clinical advances into improved patient care that will enhance the quality of life for patients in the Appalachian region, particularly southern West Virginia.

Students will receive a core education in clinical trial design, epidemiology, statistics, informatics, and translational research (21 credit hours). Students will also receive in-depth training (22 credit hours) in one of the CTS areas of emphasis: Clinical Trials, Clinical Research, or Clinical Informatics.

Graduates of this program in the Clinical Trials area of emphasis will be able to lead clinical trials of new drugs and procedures in West Virginia, particularly in its rural regions. They also will be strong applicants for positions in schools of medicine and medical centers that have clinical and translational science centers. Clinical Research graduates can apply to doctoral programs in medicine or other health-related fields having a superior background in basic science, epidemiology, informatics, and statistics. Clinical Informatics graduates will have a background in bioinformatics, computer programming, and clinical trials design, thus making them strong candidates for positions in schools of medicine, medical centers, and the health care industry.

Admission Requirements

Clinical and Translational Science M.S. Admission Policy

Applicants must meet the admission requirements of both Marshall University Graduate Admissions as outlined on their website - www.marshal/.edu/graduate/admissions/how-to-apply-for-admission (http://www.marshall.edu/graduate/admissions/how-to-apply-for-admission/) - and the Marshall University Joan C. Edwards School of Medicine Clinical and Translational Science Department Admissions Committee. Interested persons should visit https://jcesom.marshall.edu/research (https://jcesom.marshall.edu/research/), e-mail mubiomed@marshall.edu and/or call 304-696-3365.

Minimum Admission Requirements

- A baccalaureate degree from an accepted, accredited college or university. The degree must be completed prior to matriculation.

- Successful completion, with a grade of *C* or better, of one year of general biology, physics, general chemistry, and organic chemistry, all with associated laboratories. Successful completion of undergraduate courses in biochemistry and cell biology are highly recommended but not required.
- A recommended minimum Grade Point Average (GPA) of 3.0.
- A recommended minimum GPA of 3.0 in combined science and math courses.
- Official transcript from degree granting institution/s; other transcripts may be required.
- Departmental materials: three recommendations, program online form, written statement addressing educational and career goals, CV/résumé.

Applications are accepted on a rolling basis and are reviewed until the class is filled. Applications are only considered once we have received all required documentation. Applications will be considered until June 30, if openings are available. International applicants must meet the International deadline of March 15. The Clinical and Translational Sciences M.S. program is highly competitive thus early applications provide the best chance for acceptance.

Entrance into the Clinical and Translational Science M.S. program is restricted to fall semester only.

Who Should Apply

- Undergraduates.
- Medical students at an LCME-accredited U.S. medical school with a current GPA of at least a 3.0.
- Postgraduate medical residents or fellows who have an M.D. or D.O. with a graduating GPA of 3.0 or better (equivalent GPA for foreign medical graduates).
- Ph.D.'s in biomedical sciences or Pharm.D.'s with graduating GPAs of 3.0 or better.

Medical students will apply to the program during their third year of training. After completing the requirements for the M.S. degree, students will finish the fourth year of medical school.

Medical residents and fellows who are admitted into this program will need to integrate coursework into a reduced clinical workload, thus extending their postgraduate medical education by two years.

Program Requirements

Duration of the Program

Students will attend full-time and complete the requirements for the Master of Science degree in two years. This includes attending during the summer between years one and two.

Degree Requirements

All students are required to meet the general requirements of the university for receipt of a master's degree. A minimum of 36 credit hours is required for a non-thesis degree. For the CTS master's, students must complete the core classes (21 credit hours) and the courses within their chosen

Course Requirements

Code	Title	Credit Hours
CTS 600	Epi Used in Med Research	3
CTS 610	Study Design & Stats	3
CTS 614	Online Survey Tools	3
CTS 620	Basic Research Operations	3
CTS 630	Fundamentals of Team Science	2
CTS 635	Writing and Peer Review	1
BMR 680	Seminar [1]	2
BMR 660	Communication Bio Sci I	1
BMR 661	Communication Bio Sci II	1
2 hours any CTS or BMR journal club		2
Total Credit Hours		**21**

[1] Taken twice (1 hr. x 2).

of emphasis (22 credit hours). In addition, all students must pass a written and/or oral comprehensive exam.

- Clinical Informatics (p. 349)
- Clinical Research (p. 349)
- Clinical Trials (p. 350)

Clinical Informatics

Clinical Informatics

Area of Emphasis in the M.S. in Clinical and Translational Science

Code	Title	Credit Hours
CTS 612	Intro Clin Machine Learn	3
CTS 615	Intro Clinical Databases	3
CTS 645	Navigating Health IT	3
Select two courses from the following:		6-7
CTS 616	Intro Clinical Program C#	
CTS 628	Intro to Java Cln Prog	
CTS 637	Introduction to Tableau	
Electives (any CTS or BMR)		6-7
Total Credit Hours		**22**

Clinical Research

Clinical Research Area of Emphasis - 22 hours

Code	Title	Credit Hours
BMR 601	Intro DNA, RNA & Protiens	3
BMR 602	Intro Cells and Metabolism	3
BMR 603	Regulation Cell Function	2
BMR 604	Cell Basis of Disease	1
BMR 785	Intro to Research	1
Physiology - choose from:		3-6
PHS 629	Mammalian Physiology	
PHS 666	Physiology of the Cell	

PHS 667	Experimental Appr to Phys	
Electives (any CTS or BMR)		6-9
Total Credit Hours		**22**

Clinical Trials

Clinical Trials

Code	Title	Credit Hours
CTS 625	Clinical Operations Lab	5
CTS 650	Rural Clinical Experience	5
CTS 660	Appalachian Phenotype	3
Select nine credits from any CTS, BMS or BMS courses		9
Total Credit Hours		**22**

Medical Science, Graduate Certificate

The Medical Education Department of the Marshall University Joan C. Edwards School of Medicine (MUJCESOM) offers a one-year certificate program in Medical Science. This certificate is designed to improve the science foundation of students seeking admission into medical school and to serve as a pathway for admission to MUJCESOM. Admission into the Medical Science Certificate program does not guarantee admission into medical school.

This program is aimed at students who need to improve their academic standing for the medical school applications. The program covers the core basic science areas that are essential for success in a medical school pre-clerkship curriculum – biochemistry, physiology, immunology, microbiology, and pharmacology.

Students who achieve a program GPA of at least 3.4 and have an MCAT score of 500 or above will be able to interview early in JCESOM's interview cycle.

Students in the program are eligible to receive a subsidy for an MCAT preparation course.

A minimum of 16 credit hours is required for the certificate.

If students wish to continue their studies, they can apply to the Biomedical Research Program non-thesis Master of Science (M.S.) program with emphasis in Medical Sciences. The courses in the certificate program (described below) count towards the required courses for the M.S. degree.

Admission Requirements

- A baccalaureate degree from an accepted, accredited college or university.
- Successful completion, with a grade of C or better, of one year each of general biology, general chemistry, organic chemistry, and physics, all with associated laboratories.
- Successful completion, with a grade of C or better, of one semester of biochemistry.
- Successful completion, with a grade of C or better, of one year of social or behavioral sciences.
- While not required, it is recommended applicants take one or more of these courses: anatomy, cell biology, immunology, molecular biology, physiology, statistics.
- A recommended minimum Grade Point Average (GPA) of 3.0.
- A recommended minimum GPA of 3.0 in combined science and math courses.
- Official transcript(s) from undergraduate degree granting institution(s). Transcripts for post-baccalaureate or graduate coursework may be required at the discretion of the program.
- Departmental materials: three recommendations, written statement addressing educational and career goals, CV/resume.

The GRE / MCAT is not required; however, GRE / MCAT scores can be submitted to strengthen your application. Applications are accepted on a rolling basis and are reviewed until the class is filled. Applications are only considered once all required documentation has been received.

The Medical Science Certificate program admits students in both the fall and spring terms.

Applications are accepted on a rolling basis and are reviewed until the class is filled. The application deadline for fall admission is June 30. The application deadline for spring admission is December 1. International applicants should adhere to the deadlines set by the Office of Admissions.

Conditional Admission

The Health Sciences Certificate program may admit applicants conditionally, for one term, pending receipt of the final official transcript from the undergraduate degree-granting institution.

Graduation Requirements

Students must complete the program with a minimum GPA of 3.0. The Comprehensive Assessment will consist of a multiple-choice exam covering all courses. The student must achieve a minimum score of 70% to pass this exam.

Course Requirements

Course Requirements

Code	Title	Credit Hours
BMR 601	Intro DNA, RNA & Protiens	3
BMS 605	Micro Pharm Med Sciences	5
PHS 629	Mammalian Physiology	6
BMS 634	Biostat Epidem Med Sci	2
Total Credit Hours		**16**

Plan of Study

Fall		Credit Hours
BMR 601	Intro DNA, RNA & Protiens	3
BMS 605	Micro Pharm Med Sciences	5
	Credit Hours	**8**
Spring		
PHS 629	Mammalian Physiology	6

BMS 634	Biostat Epidem Med Sci	2
	Credit Hours	**8**
	Total Credit Hours	**16**

Physician Assistant, M.M.S.

Program Description

The Physician Assistant program in the Marshall University Joan C. Edwards School of Medicine offers a Master of Medical Science physician assistant degree. This program will prepare students to practice as physician assistants in primary and specialty care across the lifespan, to patients in culturally diverse and rural settings. The program will provide students with the tools and skills to support lifelong learning, to apply evidence-based medicine in practice and to work in inter-professional teams.

Admission Information

The Physician Assistant program at Marshall University is a non-thesis, 28-month graduate-level program awarding the Master of Medical Science Physician Assistant (MMS PA) degree upon completion.

Applicants will be evaluated using the applicant's academic record, recommendations, entrance exam, CASPer exam, essay, and interview. Consistent with our mission, applicants who are West Virginia residents will be given additional points in the admission rubric.

Marshall University does not discriminate on the basis of race, color, national origin, ancestry, age, physical or mental disability, marital or family status, pregnancy, veteran status, service in the uniformed services (as defined in state and federal law), religion, creed, sex, sexual orientation, genetic information, gender identity, or gender expression in the administration of any of its educational programs, activities, or with respect to admission or employment.

Rolling Admission

Admission is selective and operates on a rolling admission cycle. Therefore, it will benefit applicants to complete their applications early. Applications verified by CASPA by the October 1st deadline will be reviewed on a rolling basis. Applications that are not **verified** by CASPA by Marshall's Physician Assistant program admission deadline will NOT be considered.

Advanced Placement

No advanced placement is granted in the program. All courses must be taken in the Marshall University Physician Assistant program.

Application Deadline: October 1, 2025

Applicants who wish to join the cohort in January 2026 must have their CASPA application **verified** by October 1, 2025.

Baccalaureate degree from an accepted, accredited U.S .institution: no specific major is required so long as prerequisites are successfully completed.

Required minimum overall GPA of 3.0 (4.0 scale) overall, as calculated by CASPA
Required minimum prerequisite coursework GPA of 3.0 (4.0 scale), as calculated by Marshall University's PA program
Required minimum science GPA of 3.0 (4.0 scale), as calculated by CASPA

Prerequisite coursework. All prerequisite coursework should have been taken within the last 10 years. No Advanced Placement (AP), International Baccalaureate (IB), or College Level Examination Program (CLEP) coursework will be accepted in lieu of taking the courses themselves. All courses must be taken for a letter grade and be passed at the *C* or better level; a *C minus* is not acceptable. Applicants who are currently enrolled in required undergraduate prerequisite courses, or obtaining their bachelor's degree, may apply for preliminary admission. Once all required courses are successfully completed, prior to the designated start term of the application and as evidenced by an official transcript from the sending institution, those applicants may be regularly admitted to the program.

The credit hours (cr) of the following prerequisites are considered equivalent to semester hours. Please take this into consideration if you are taking courses using a different system. Quarter hour system prerequisite courses must equal the listed semester hour requirements. To calculate semester credit hours, multiply the number of quarter hour credits by 0.67.

In addition to the minimum requirements above, applicants must meet the following:

1. **Prerequisite classes – all prerequisites should have been taken within the last 10 years.**
   - General Chemistry with associated lab - 8 cr.
   - Statistics - 3 cr.
   - Human Anatomy with lab - 4 cr.
   - Human Physiology - 3 cr.
   - Organic Chemistry I with lab - 4 cr. (or Biochemistry - 3 cr.)
   - Microbiology with lab - 3 cr.
   - Medical Terminology - one semester (1 cr. - 3 cr.)
   - Psychology - 3 cr.
   - College Algebra - 3 cr. (May be replaced with Pre-Calculus or Calculus)

Prerequisite coursework notes:

- Combined Human Anatomy and Physiology courses are accepted in lieu of separate Human Anatomy with lab and Human Physiology courses. However, applicants must take two semesters of Anatomy and Physiology with associated labs (totaling 8 cr.).
- No Advanced Placement (AP), International Baccalaureate (IB), or College Level Examination Program (CLEP) credit will be accepted for any prerequisite courses.
- All prerequisite courses must have an assigned letter grade and not Pass/Fail or CR/NC.
- While the program encourages in-person labs, both in-person and virtual labs will be accepted.

Recommendations. Three recommendations are required. They must be submitted through CASPA (https://help.liaisonedu.com/CASPA_Applicant_Help_Center/Filling_Out_Your_CASPA_Application/3._CASPA_Supporting_Information/1_Evaluat be from recommenders who can attest to the applicant's abilities to succeed, such as the capacity to learn, work ethic, and/or educational or professional goals. Recommendations should NOT be from family members or friends.

Entrance exam – Graduate Record Exam (GRE). The MCAT may be substituted for the GRE. GRE/MCAT scores must be less than five years old at the time of application. There is no minimum score required.

Official scores must be submitted electronically to CASPA directly from ETS using a special CASPA code. Visit the CASPA Official GRE Scores (https://help.liaisonedu.com/CASPA_Applicant_Help_Center/Sending_Your_Official_Transcripts_and_Test_Scores_to_CASPA/Sending_Official_Test_Scores_to_CASPA/Official_GRE_Scores/) webpage to learn how to submit your official GRE scores.
Visit the CASPA Official MCAT Scores (https://help.liaisonedu.com/CASPA_Applicant_Help_Center/Sending_Your_Official_Transcripts_and_Test_Scores_to_CASPA/Sending_Official_Test_Scores_to_CASPA/Official_MCAT_Scores/) webpage to learn how to submit your official MCAT scores.

Essay. The essay, or commonly referred to as personal statement, must be submitted through CASPA (https://help.liaisonedu.com/CASPA_Applicant_Help_Center/Filling_Out_Your_CASPA_Application/3._CASPA_Supporting_Information/5_Essay/).

CASPA and supplemental application. Complete both the Central Application Service for Physician Assistants (**CASPA**) application and Marshall's PA program's **supplemental application**; this includes the non-refundable supplemental application fee ($40 for domestic applicants and $150 for international). The supplemental application will be completed *only* by applicants who are invited for and accept an interview. Interviewees will be expected to complete and submit their supplemental application at the time of their interview.

CASPer Exam. All applicants applying to the Marshall University Physician Assistant Program are required to complete the Altus Suite (Casper test only) for the 2025-2026 admissions cycle.

Altus Suite is a standardized, multi-part online assessment that measures different competencies and attributes that we believe are important for successful students and graduates of our program. Altus Suite will complement the other tools that we use for applicant review and evaluation. In implementing Altus Suite, we are trying to further enhance fairness and objectivity in our selection process.

Altus Suite consists of:

- Casper: 100-120 minute online, open-response situational judgment test
- Snapshot: 15-minute one-way video interview with standardized questions
- Duet: 15-minute value-alignment assessment

You will register for Altus Suite for the Casper test U.S. Professional Health Sciences using the code CSP-10101. Access TakeAltus.com (http://www.takealtus.com) to create an account and for more information on important dates and requirements and the Altus Suite assessments.

NOTE: Snapshot and Duet are not required to apply to our program.

The program strongly encourages applicants to take the exam early as there is a limited number of slots for each day the exam is offered, and their application cannot be considered complete until the exam is taken and scores are received. An applicant does not need to wait until their CASPA application is completed and/or verified to take the CASPer test. Since our program utilizes a rolling admissions cycle, it is advantageous to complete your application as early as possible.

CASPer exam results are only valid for a single admissions cycle and must be taken again if an applicant is reapplying. Since there is a cost associated with CASPer, if there is a financial hardship that would otherwise prevent an applicant from taking the test, please contact the program director at paprogram@marshall.edu.

PA shadowing. Shadowing a current physician assistant in the field is encouraged, but not required. Shadowing can help an applicant better understand the role of a physician assistant. If invited for an interview, the applicant will be expected to discuss briefly the role of a physician assistant.

Basic computer skills. Skills must include the use of email and web-based and electronic searches.

Patient care experience. Not required

Applicants who are WV residents will be given additional points in the admission rubric.
Applicants who have obtained or will obtain by matriculation an undergraduate degree from Marshall University will be granted an interview as long as they meet basic admission requirements and have their applications verified by CASPA by September 1st, 2023.

Students must have health insurance coverage by the time of matriculation.

Applicants may apply prior to obtaining all prerequisite courses or obtaining their baccalaureate degree. Applicants who have not completed all prerequisites, the baccalaureate degree, or both may be temporarily admitted pending completion of admission requirements. Temporary admission status will be rescinded if all admission requirements are not met prior to matriculation.

ADMISSION PROCESS

1. Make sure you meet the admission requirements.
2. Submit an application through the Central Application Service for Physician Assistants (CASPA (https://caspa.liaisoncas.com/)), which must be **verified by October 1, 2025**. Applications that are not verified by Marshall's PA application deadline will not be reviewed for admission. Note: CASPA recommends that applicants monitor their applications for at least four to six weeks until verification status is achieved.

   Questions regarding your application in CASPA should be directed to CASPA (https://help.liaisonedu.com/CASPA_Applicant_Help_Center (https://help.liaisonedu.com/CASPA_Applicant_Help_Center/)).

   Marshall requires the following materials to be submitted via CASPA:
   a. CASPA application and non-refundable application fee
   b. Official transcripts of all institutions of higher learning attended
   c. Three recommendations – CASPA only requires two, but Marshall requires three
   d. Official GRE or MCAT scores – GRE code is 4752
   e. Essay/Personal Statement – CASPA sets a limit of characters so be sure to follow the guidelines
3. All applications **verified** by October 1, 2025, will be reviewed, and a decision will be made to reject or offer an interview to the applicant. Decisions will be made using a rubric designed to be objective and based on the following content:

a. Grade Point Averages (overall, prerequisite, science)
b. Recommendations
c. Personal Statement
d. GRE or MCAT Score
e. CASPer Assessment Results
f. Residency – WV residents will receive additional points in this rubric.
g. Marshall University Graduates – Applicants who have obtained, or will obtain by matriculation, an undergraduate degree from Marshall University and who meet the minimum admission requirements will be offered an interview.
   - Marshall University Graduates – Applicants who have obtained, or will obtain by matriculation, an undergraduate degree from Marshall University, who meet the minimum admission requirements, and who have their applications submitted and verified on or by **September 1st** will be offered an interview.

4. The interview process will be performed virtually. The applicant will be interviewed virtually by the PA Program faculty, Admissions Committee members, and/or other designated interviewers. Once the interview has been accepted, additional information about the virtual interview process will be provided to the applicant.
5. Applicants who are offered an interview will receive notice via email to the email address listed on the CASPA application. Interviews will be scheduled on a rolling basis. Rejection notices will be sent via mail to the current address listed on the CASPA application. Invited applicants will be given an interview date, provided a Marshall University supplemental application and questionnaire to be completed as well as a technical standards document to review and sign.
6. If any applicant would like to schedule an individual visit and tour the PA program facilities, please send a request to paprogram@marshall.edu.

First Semester		**Credit Hours**
PAS 500	Foundations of Medicine	7
PAS 520	Gross Anatomy for the PA	4
PAS 530	Pharmacology Principles	3
PAS 550	History and Physical Exam	3
	Credit Hours	**17**
Second Semester		
PAS 600	Clinical Medicine I	6
PAS 601	Pharmacology for the PA I	2
PAS 602	Clinical Concepts I	2
PAS 603	Clinical Assessment I	2
PAS 604	Testing and Procedures I	2
PAS 605	PA's in Health Care	2
PAS 606	PA Evidence Based Practice	2
	Credit Hours	**18**
Third Semester		
PAS 610	Clinical Medicine II	6
PAS 611	Pharmacology for the PA II	2
PAS 612	Clinical Concepts II	2
PAS 613	Clinical Assessment II	2
PAS 614	Testing and Procedures II	2
PAS 615	Health Policy for the PA	2
PAS 616	Clinical Specialties I	3
	Credit Hours	**19**
Fourth Semester		
PAS 620	Clinical Medicine III	6
PAS 621	Pharmacology for the PA III	2
PAS 622	Clinical Concepts III	2
PAS 623	Clinical Assessment III	2
PAS 624	Testing and Procedures III	2
PAS 625	PA Professional Practice	2
PAS 626	Clinical Specialties II	3
PAS 627	Psychiatry for the PA	2
	Credit Hours	**21**
	Total Credit Hours	**75**

Students are also required to complete a Clinical Year by taking the courses below:

Code	**Title**	**Credit Hours**
PAS 650	PA Primary Care I	4
PAS 651	PA Primary Care II	4
PAS 652	PA Psychiatry I	4
PAS 653	PA Internal Medicine I	4
PAS 654	PA Internal Medicine Sub	4
PAS 655	PA Women's Health	4
PAS 656	PA Pediatrics	4
PAS 657	PA General Surgery	4
PAS 658	PA Emergency Medicine	4
PAS 659	Orthopaedics	4
PAS 660	PA Clinical Elective	4
PAS 690	Senior Seminar	3
Credit hours for Semesters 1 - 4		**75**
Total Credit Hours		**122**

School of Pharmacy

Contacts: Dr. Eric R. Blough, Dean
Website: http://www.marshall.edu/pharmacy (http://www.marshall.edu/pharmacy/)

E-mail: pharmacy@marshall.edu

Programs

- Pharmaceutical Sciences, B.S. to Pharm.D. (3+4 Accelerated Program) (p. 358)
- Pharmaceutical Sciences, M.A. (Non-Thesis Option) (p. 359)
- Pharmaceutical Sciences, M.S. (p. 360)
- Pharmacy, Dual Degree: Pharm.D. and M.B.A. (p. 361)
- Pharmacy, Pharm.D. (p. 361)

Courses

Pharmaceutical Sciences

MSPS 512 Med Chem & Drug Disc **1 Credit hour**
This course gives an overview of drug discovery principles and techniques for the practicing medicinal chemist.
Grade Mode: Normal Grading Mode

MSPS 531 Regulatory Affairs **3 Credit hours**
An overview of USFDA's regulation on drug. Topics covered include pharmaceutical regulatory agencies and organizations around the world and their International Regulatory Audits for Pharma, International Conference on Harmonization (ICH) guidelines, Pharmacopoeias and national formulary, US Food and Drug Administration (USFDA): History of USFDA Law and Regulation, GLP, MMP, NDA, and ANDA.
Grade Mode: Normal Grading Mode

MSPS 542 Science Seminars **1 Credit hour**
The course will help graduate students in the pharmaceutical sciences learn the basics of scientific communication and how to critically evaluate scientific literature. This 1 credit hour course is repeatable for credit up to 4 times.
Grade Mode: Normal Grading Mode

MSPS 544 Prin Dis Drug Action **4 Credit hours**
Topics covered include the concepts and mechanisms of the basic processes underlying disease and pathophysiology; the general principles underlying drug action and therapeutics, including receptor pharmacology, enzyme inhibition and pharmacology; the relationship between drug concentration at the target tissue and drug effect; as they relate to drug action and individual variation in response.
Grade Mode: Normal Grading Mode

MSPS 561 Biopharmaceutics I **3 Credit hours**
Topics covered include the physicochemical principles of pharmacy, such as acid-base theory, solubility, physical states of drugs, thermodynamics, drug stability, excipients, surfactants, dispersions, polymers, drug delivery, chemical compatibility and interactions of drugs in various dosage forms.
Grade Mode: Normal Grading Mode

MSPS 562 Biopharmaceutics II **3 Credit hours**
Topics covered include mechanisms of both immediate and sustained drug release in formulations involving solid and semi-solid systems; introduction to novel drug delivery systems; drug pre-formulation, the drug approval processes, and regulations governing the pharmaceutical industry; drug preparation, liberation, absorption and stability dosage.
Grade Mode: Normal Grading Mode

MSPS 581 Special Topics **1-3 Credit hours**
Special Topics
Grade Mode: Normal Grading Mode

MSPS 585 Independent Study **1-3 Credit hours**
Independent Study
Grade Mode: Normal Grading Mode

MSPS 586 Problem Report **1-3 Credit hours**
Problem Report
Grade Mode: Normal Grading Mode

MSPS 632 Prod Dev by Quality Design **3 Credit hours**
Product Development by Quality by Design
Grade Mode: Normal Grading Mode

MSPS 685 Independent Study **1-3 Credit hours**
Independent Study
Grade Mode: Normal Grading Mode

MSPS 686 Problem Report **1-3 Credit hours**
Problem Report
Grade Mode: Normal Grading Mode

MSPS 699 Thesis **1-6 Credit hours**
Thesis
Attributes: Thesis
Grade Mode: Normal Grading Mode

Pharmacy

PHAR 501 Pharm Cont Prof Dev 1 **0 Credit hours**
Students will be introduced to additional professionalism topics, evaluation of clinical skills through the OSCEs and take part in a seminar series throughout the first through third years.
Grade Mode: Pass/Fail Grading Mode

PHAR 502 Pharm Cont Prof Dev 2 **0 Credit hours**
Students will be introduced to additional professionalism topics, evaluation of clinical skills through the OSCEs and take part in a seminar series throughout the first through third years.
Grade Mode: Pass/Fail Grading Mode

PHAR 503 Pharm Cont Prof Dev 3 **0 Credit hours**
Students will be introduced to additional professionalism topics, evaluation of clinical skills through the OSCEs, and take part in a seminar series throughout the first through third years.
Grade Mode: Pass/Fail Grading Mode

PHAR 504 Pharm Cont Prof Dev 4 **0 Credit hours**
Students will be introduced to additional professionalism topics, evaluation of clinical skills through the OSCEs and take part in a seminar series throughout the first through third years.
Grade Mode: Pass/Fail Grading Mode

PHAR 505 Pharm Cont Prof Dev 5 **0 Credit hours**
Students will be introduced to additional professionalism topics, evaluation of clinical skills through the OSCEs, and take part in a seminar series throughout the first through third years.
Grade Mode: Pass/Fail Grading Mode

PHAR 506 Pharm Cont Prof Dev 6 **0 Credit hours**
Students will be introduced to additional professionalism topics, evaluation of clinical skills through the OSCEs and take part in a seminar series throughout the first through third years.
Grade Mode: Pass/Fail Grading Mode

PHAR 512 Pharmacy Skills Lab I **2 Credit hours**
Students will learn the necessary skills of a pharmacist (pt. interviewing, sterile cmpd, immunizations)
Grade Mode: Normal Grading Mode

PHAR 523 Pharmacogenomics **2 Credit hours**
This course will provide students with the foundational knowledge of the principles and concepts of pharmacogenomics and pharmaceutical genetics, including a conceptual understanding of how genomic differences can impact drug metabolism, transport, and targets.
Grade Mode: Normal Grading Mode

PHAR 524 Drug Info & Comm Skills **2 Credit hours**
Topics covered include basic skills in obtaining and utilizing drug information references, and foundational skills required in patient counseling, such as the Indian Health method of counseling.
Grade Mode: Normal Grading Mode

PHAR 531 Biopharmaceutics I **3 Credit hours**
Topics covered include the physicochemical principles of pharmacy, such as acid-base theory, solubility, physical states of drugs, thermodynamics, drug stability, excipients, surfactants, dispersions, polymers, drug delivery, chemical compatibility and interactions of drugs in various dosage forms.
Grade Mode: Normal Grading Mode

PHAR 532 Biopharmaceutics II **3 Credit hours**
Topics covered include mechanisms of both immediate and sustained drug release in formulations involving solid and semi-solid systems; introduction to novel drug delivery systems; drug pre-formulation, the drug approval processes, and regulations governing the pharmaceutical industry; drug preparation, liberation, absorption and stability dosage.
Pre-req: PHAR 531.
Grade Mode: Normal Grading Mode

PHAR 533 Introduction to Pharmacy 1 **3 Credit hours**
Continued professional development of pharmacy practitioner. Sterile produces, top 300 medications, laboratory values, SOAP notes, documentation, medication safety applications including patient counseling and technology, communication and public service are stressed.
Grade Mode: Normal Grading Mode

PHAR 536 Introduction to Pharmacy 2 **3 Credit hours**
Begin professional development understanding the responsibilities of a registered pharmacist providing patient care, professional conduct, personnel management, personal conduct, pharmacy calculations, immunizations, legal issues, and team dynamics are stressed.
Grade Mode: Normal Grading Mode

PHAR 537 Pharmacokinetics **3 Credit hours**
An introductory course emphasizing basic principles in pharmacokinetics.
Grade Mode: Normal Grading Mode

PHAR 538 Pharmacy Skills Lab 2 **3 Credit hours**
Students will learn the necessary skills of a pharmacist (pt. interviewing, sterile cmpd, clinical reasoning)
Grade Mode: Normal Grading Mode

PHAR 542 Immunology and Microbiology **4 Credit hours**
Topics covered include an introduction to the classification, morphology and physiology of microorganisms, primarily organisms that can cause human pathology, such as bacteria, viruses, fungi, protozoans, parasites, and worms; the body's immune response and mechanisms of defense at the cellular and humoral (molecular) level will also be covered in the context of pathogenic organisms, tissue transplants, and autoimmune disease.
Grade Mode: Normal Grading Mode

PHAR 544 Prin of Disease & Drug Action **4 Credit hours**
Topics covered include skills in obtaining and utilizing drug information reference and foundational skills required in patient counseling.
Grade Mode: Normal Grading Mode

PHAR 545 Therapeutics I **4 Credit hours**
Students will learn about the therapeutic use, human physiology, pharmacologic and chemical properties of over-the-counter medication and non-medication interventions for both treatment and prevention of disease.
Pre-req: PHAR 541.
Grade Mode: Normal Grading Mode

PHAR 547 Pharmaceutical Chemistry **4 Credit hours**
An introductory course providing the fundamental basics of pharmaceutical chemistry.
Grade Mode: Normal Grading Mode

PHAR 549 Intro to Community Pharm IPPE **0 Credit hours**
Provide patient care and distribution services in community setting. Students gain experience in professional communication, drug information, patient counseling (prescription and OTC), medication distribution, extemporaneous products, and application of regulations.
Grade Mode: Pass/Fail Grading Mode

PHAR 550 Intro to Institutional IPPE **0 Credit hours**
Provide patient care and distribution services in institutional setting. Students gain experience in professional communications, drug information, patient counseling, medication distribution, medication-management systems, policies and procedures, and application of regulations.
Grade Mode: Pass/Fail Grading Mode

PHAR 591 Cont Prof Dev (CPD) 1 **1 Credit hour**
First of six courses for co-curriculum and tracking achievement milestones. Expands problem solving/critical thinking, education, patient advocacy, cultural awareness, interprofessional collaboration, communication, self-awareness, leadership, innovation and entrepreneurship, and professionalism.
Grade Mode: Normal Grading Mode

PHAR 592 Cont Prof Dev (CPD) 2 **1 Credit hour**
Second of six courses for co-curriculum and tracking achievement milestones. Expands problem solving/critical thinking, education, patient advocacy, cultural awareness, interprofessional collaboration, communication, self-awareness, leadership, innovation and entrepreneurship, and professionalism.
Grade Mode: Normal Grading Mode

PHAR 593 Cont Prof Dev (CPD) 3 **1 Credit hour**
Third of six courses for co-curriculum and tracking achievement milestones. Expands problem solving/critical thinking, education, patient advocacy, cultural awareness, interprofessional collaboration, communication, self-awareness, leadership, innovation and entrepreneurship, and professionalism.
Grade Mode: Normal Grading Mode

PHAR 594 Cont Prof Dev (CPD) 4 **1 Credit hour**
Fourth of six courses for co-curriculum and tracking achievement milestones. Expands problem solving/critical thinking, education, patient advocacy, cultural awareness, interprofessional collaboration, communication, self-awareness, leadership, innovation and entrepreneurship, and professionalism.
Grade Mode: Normal Grading Mode

PHAR 595 Cont Prof Dev (CPD) 5 **1 Credit hour**
Fifth of six courses for co-curriculum and tracking achievement milestones. Expands problem solving/critical thinking, education, patient advocacy, cultural awareness, interprofessional collaboration, communication, self-awareness, leadership, innovation and entrepreneurship, and professionalism.
Grade Mode: Normal Grading Mode

PHAR 596 Cont Prof Dev (CPD) 6 **1 Credit hour**
Sixth of six courses for co-curriculum and tracking achievement milestones. Expands problem solving/critical thinking, education, patient advocacy, cultural awareness, interprofessional collaboration, communication, self-awareness, leadership, innovation and entrepreneurship, and professionalism.
Grade Mode: Normal Grading Mode

PHAR 623 Patient Safety **2 Credit hours**
Further professional development in the management of patient safety policies and procedures. Areas covered: medication reconciliation, discharge planning, risk management, and other methods of improving patient safety.
Grade Mode: Normal Grading Mode

PHAR 635 Research Methods and Stats **3 Credit hours**
The fundamentals of clinical and outcomes research will be discussed and applied to patient care. Students will gain an understanding of study design, research methods, statistical analysis, and research in pharmacy.
Grade Mode: Normal Grading Mode

PHAR 636 Pharm Skills Lab III **3 Credit hours**
Students will learn foundational patient care skills necessary for practice as a pharmacist. Students will apply knowledge, demonstrate critical-thinking and problem-solving skills, practice technical and communication skills, and demonstrate professional behavior in the therapeutic decision making process.
Pre-req: PHAR 512 with a minimum grade of C and PHAR 537 with a minimum grade of C.
Grade Mode: Normal Grading Mode

PHAR 637 Pharm Skills Lab IV **3 Credit hours**
Students will learn foundational patient care skills necessary for practice as a pharmacist. Students will apply knowledge, demonstrate critical-thinking and problem-solving skills, practice technical and communication skills, and demonstrate professional behavior in the therapeutic decision making process.
Pre-req: PHAR 512 with a minimum grade of C and PHAR 538 with a minimum grade of C and PHAR 636 with a minimum grade of C.
Grade Mode: Normal Grading Mode

PHAR 641 Therapeutics 1 - OTC/Self-Care **4 Credit hours**
Students will learn about the therapeutic use, human physiology, pharmacologic and chemical properties of over-the-counter medication and non-medication interventions for both treatment and prevention of disease.
Grade Mode: Normal Grading Mode

PHAR 643 Therapeutics 3 GI & Renal **4 Credit hours**
Students will learn about the pharmacology, pathophysiology, and therapeutics associated with commonly encountered gastrointestinal, hepatic, and renal disorders. Activities emphasized include patient assessment, consultation, communication, drug monitoring, drug effectiveness, and the professional and legal dynamics encountered in pharmacy practice.
Grade Mode: Normal Grading Mode

PHAR 644 Therapeutics 4 - Endocrine **4 Credit hours**
Students will learn about therapeutic and prophylactic treatments for diseases of the endocrine, genitourinary and reproductive systems. Use of medication and non-medication interventions will be emphasized as deemed appropriate. This course will emphasize performance of the activities of the pharmacist as health care provider.
Grade Mode: Normal Grading Mode

PHAR 649 Intro Outpt Clin Skills IPPE **0 Credit hours**
Provides care in interdisciplinary outpatient setting. Participate in clinical care conferences, take medication histories, monitor drug therapy including performing physical assessments, provide patient education, and research patient-specific drug information questions.
Grade Mode: Pass/Fail Grading Mode

PHAR 650 Intro Inpat Clin Skills IPPE **0 Credit hours**
Provide patient care and explore interprofessional health team roles. Students attend clinical rounds, take medication histories, monitor drug therapy, provide patient education, and research drug information questions.
Grade Mode: Pass/Fail Grading Mode

PHAR 652 Therapeutics 2 - Cardiology **5 Credit hours**
Students learn about therapeutic interventions for treatment and prevention of cardiovascular and pulmonary disease. Exploration of human physiology, disease pathophysiology and medications pharmacologic and chemical properties precede therapeutic use discussions.
Grade Mode: Normal Grading Mode

PHAR 662 Pharmacy Administration **6 Credit hours**
Provides students with a functional working knowledge of the healthcare system and business environment. Concepts examined include but are not limited to: leadership, operations management, health policy, motivational theories, employment issues, labor law, pharmacoeconomics, business planning, and financial analysis of pharmacy operations.
Grade Mode: Normal Grading Mode

PHAR 711 Med Therapy Management **1 Credit hour**
The student will learn to resolve medication-related problems to reduce costs and improve outcomes.
Grade Mode: Normal Grading Mode

PHAR 723 Therapeutics 7 - Special Pops **2 Credit hours**
This course will emphasize the unique needs and differences in therapeutic recommendations for patients at the extremes of ages, diverse cultural backgrounds, and those with co-morbidities and other health conditions.
Grade Mode: Normal Grading Mode

PHAR 724 Special Populations **3 Credit hours**
Emphasizes unique needs and differences in therapeutic recommendations for patients in following categories: pediatrics, geriatrics, end-of-life, women's health, diverse cultural backgrounds, co-morbidities (HIV and Opportunistic Infections), and underserved populations.
Grade Mode: Normal Grading Mode

PHAR 730 Therapeutics 8 - Derm/Opht/MUS **3 Credit hours**
Students will learn treatment/prevention of ophthalmic, otic, dermatologic, and musculoskeletal diseases including the physiology, pathophysiology, pharmacology and therapy. This course emphasizes the pharmacist as a healthcare provider.
Grade Mode: Normal Grading Mode

PHAR 732 Clin Aspects Rx Meds **3 Credit hours**
A discussion of the clinical aspects of medications will be covered with an emphasis on 1) pharmaceutical calculations and 2) analysis of the differences between various drugs and drug classes.
Grade Mode: Normal Grading Mode

PHAR 733 Residency Preparation **3 Credit hours**
This course will help to prepare the pharmacy student for completion of postgraduate training, exploring processes including research project design and execution, interviewing, residency applications, and professional development.
Grade Mode: Normal Grading Mode

PHAR 734 Medications of Abuse **3 Credit hours**
This course discusses medications of abuse and their impact on society, reviews the history of substance use disorder relating them to current affairs and the impact on society.
Grade Mode: Normal Grading Mode

PHAR 735 Pharmacy Law & Ethics **3 Credit hours**
An applied analysis of federal and West Virginia state law and ethical standards in the practice of Pharmacy and Pharmaceutical Care.
Grade Mode: Normal Grading Mode

PHAR 736 Pharmacy Skills Lab 6 **3 Credit hours**
Covers foundational patient care skills. Students apply knowledge, demonstrate critical-thinking and problem-solving skills, practice technical and communication skills, and demonstrate professional behavior in the therapeutic decision making process.
Pre-req: PHAR 637 with a minimum grade of C.
Grade Mode: Normal Grading Mode

PHAR 737 Pharmacy Skills Lab 5 **3 Credit hours**
Covers foundational patient care skills. Students apply knowledge, demonstrate critical-thinking and problem-solving skills, practice technical and communication skills, and demonstrate professional behavior in the therapeutic decision making process.
Grade Mode: Normal Grading Mode

PHAR 738 Pharmacy Education I **3 Credit hours**
This course will prepare students for a career in pharmacy education.
Grade Mode: Normal Grading Mode

PHAR 739 Pharmacy Education II **3 Credit hours**
This course will prepare students to apply skills learning in PHAR 738 in a lab setting.
Pre-req: PHAR 738 with a minimum grade of C.
Grade Mode: Normal Grading Mode

PHAR 743 Therapeutics 9 - Hem/Oncology **4 Credit hours**
Students will learn treatment/prevention of heme-onc diseases including physiology, pathophysiology, pharmacology and therapy. Activities emphasized include patient assessment, consultation monitoring, communication, and drug effectiveness (safety, interactions, and adverse events).
Grade Mode: Normal Grading Mode

PHAR 752 Therapeutics 6 - Neuro/Psych **5 Credit hours**
Students will learn treatment and prevention of neurological and psychiatric diseases including the physiology, pathophysiology, pharmacology and therapy. This course emphasizes the pharmacist as a health care provider.
Grade Mode: Normal Grading Mode

PHAR 761 Therapeutics 5 - Infect Dis **5-6 Credit hours**
This course discusses clinical microbiology and principles of anti-infective therapy as well as the pathophysiology, associated pharmacology, and therapeutic approaches to infectious diseases.
Pre-req: PHAR 542 with a minimum grade of C.
Grade Mode: Normal Grading Mode

PHAR 762 Infect Disease Therapeutics **5 Credit hours**
This course discusses clinical microbiology and principles of anti-infective therapy as well as the pathophysiology, associated pharmacology, and therapeutic approaches to infectious diseases and conditions of the integumentary system.
Grade Mode: Normal Grading Mode

PHAR 781 Veterinary Pharmacy **3 Credit hours**
To instruct students in the administration, clinical pharmacology, clinical applications, diseases, medication safety and comparative dosing of veterinary medications that a pharmacist may encounter in the community pharmacy setting.
Grade Mode: Normal Grading Mode

PHAR 801 Special Topics I **1-6 Credit hours**
An opportunity for individual students to gain advanced experiences in practice, research, or service. Students will identify mentor and jointly develop individualized learning outcomes and a learning plan.
Grade Mode: Normal Grading Mode

PHAR 802 Special Topics II **1-6 Credit hours**
An opportunity for students to didactically explore advanced topics within the profession of pharmacy.
Grade Mode: Normal Grading Mode

PHAR 811 IPPE - Community Pharmacy 1 **1 Credit hour**
Introduction to community pharmacy practice in a supervised setting. Students are exposed to the roles and responsibilities of the community pharmacist.
Attributes: Onsite Learning Experience
Grade Mode: Normal Grading Mode

PHAR 813 IPPE - Community Pharmacy 2 **1 Credit hour**
Attributes: Onsite Learning Experience
Grade Mode: Normal Grading Mode

PHAR 814 Intro Phar Institutions 2 **1 Credit hour**
Builds on the foundations of the Institutional Pharmacy 1 Experience. The student will demonstrate critical thinking and problem solving, document professional practice activities, and parenteral compounding abilities.
Grade Mode: Normal Grading Mode

PHAR 815 IPPE - Outpat Clinical Skills **1 Credit hour**
Introduces pharmacist student to the ambulatory care setting. Student will demonstrate the ability to develop a therapeutic plan that includes the selection of appropriate drug therapy based on patient characteristics.
Attributes: Onsite Learning Experience
Grade Mode: Normal Grading Mode

PHAR 816 IPPE - Inpat Clinical Skills **1 Credit hour**
Introduces the pharmacy student to the clinical skills in an institutional setting needed to be successful. Student will demonstrate appropriate drug dosing and drug selection based on patient characteristics.
Attributes: Onsite Learning Experience
Grade Mode: Normal Grading Mode

PHAR 817 IPPE - Pharmacy Management **1 Credit hour**
Students are exposed to the role and responsibilities of a pharmacy team leader, manager, or director and the application of management strategy, tools, and responsibilities.
Attributes: Onsite Learning Experience
Grade Mode: Normal Grading Mode

PHAR 821 IPPE - Institutional **2 Credit hours**
The Introductory Pharmacy Practice Experience in Institutions is designed to allow the student to demonstrate knowledge and skill learned in the classroom while concurrently gaining understanding to the systems and function of the pharmacy in an institutional setting.
Attributes: Onsite Learning Experience
Grade Mode: Normal Grading Mode

PHAR 881 APPE - Adv Inpat Clin Skills **5 Credit hours**
Provides experience in clinicial, acute care/institutional, team-based environment. With guidance, students are expected to collect patient information, evaluate/monitor drug therapy, educate patients/caregivers and respond to drug information inquiries.
Attributes: Onsite Learning Experience
Grade Mode: Normal Grading Mode

PHAR 882 APPE - Adv Outpat Clin Skills **5 Credit hours**
Provides experience in clinically focused multidisciplinary outpatient environment. Responsibilities include collecting patient-specific information, evaluating and monitoring drug therapy, providing education about medications/MRPs and responding to drug or medication related inquiries.
Attributes: Onsite Learning Experience
Grade Mode: Normal Grading Mode

PHAR 883 APPE - Advanced Community **5 Credit hours**
Experience in community pharmacy setting to provide patient-centered care. Responsibilities include dispensing, OTC/Self-Care, MTM, preventative health screening(s), immunizations, compounding and patient counseling as part of the health care team.
Attributes: Onsite Learning Experience
Grade Mode: Normal Grading Mode

PHAR 884 APPE 4-Adv Institutional **5 Credit hours**
This is a 5-week experiential rotation in an approved health system that prepares the student to function within integrated pharmacy services. Particular emphasis is placed on the preparation, distribution, and control of medications, medication monitoring, and the ability to communicate with other healthcare professionals. This rotation develops competence to function as a staff hospital pharmacist.
Attributes: Onsite Learning Experience
Grade Mode: Normal Grading Mode

PHAR 885 APPE - Transitions of Care **5 Credit hours**
Students provide pharmacy services across the healthcare system. Students focus on addressing needs of geriatric and complex patients with multiple chronic disease states with members of the health care team.
Attributes: Onsite Learning Experience
Grade Mode: Normal Grading Mode

PHAR 886 APPE - Diverse Populations **5 Credit hours**
Experience in community, ambulatory or other setting to medically under-served population. Focus on providing culturally sensitive, compassionate and effective care to a diverse, ethnic, rural, poor and/or indigent population(s).
Attributes: Onsite Learning Experience
Grade Mode: Normal Grading Mode

PHAR 887 APPE - Elective **5 Credit hours**
APPE electives take place in variety of pharmacy practice settings and provide student with highly focused experiences based on the preceptor's specialty. Can be taken twice in same semester.
Attributes: Onsite Learning Experience
Grade Mode: Normal Grading Mode

PHAR 891 Pharmacy Capstone I **2 Credit hours**
Pharmacy capstone experience where students are challenged to demonstrate acquisition of pharmacy skill, knowledge, and behavior competency.
Grade Mode: Normal Grading Mode

PHAR 892 Pharmacy Capstone 2 **2 Credit hours**
Pharmacy capstone experience, where students are challenged to demonstrate acquisition of pharmacy skill, knowledge, and behavior competency.
Pre-req: PHAR 891 with a minimum grade of C.
Grade Mode: Normal Grading Mode

Pharmaceutical Sciences, B.S. to Pharm.D. (3+4 Accelerated Program)

Accelerated Graduate Degree Pathways

There are several different Accelerated Graduate Degree pathways from which a student can select:

- The B.S. in Pharmaceutical Sciences to the Pharmacy Doctorate.
- The B.S. in Biological Science to the Pharmacy Doctorate.
- The B.S. in Chemical Sciences to the Pharmacy Doctorate.
- The B.S. in Health Sciences to the Pharmacy Doctorate.

The B. S. in Pharmaceutical Sciences program is also offered as part of an accelerated 3 + 4 program in conjunction with the Doctor of Pharmacy degree (3 years B.S. + 4 years Pharm.D.). The first 3 years of the B.S.P.S. program include all prerequisite courses that are required for matriculation into the Pharm.D. program as well as all university core requirements for a B.S. The coursework in the fourth year of the B.S.P.S. program is synonymous with the coursework in the first year of the Pharm.D. program. This allows both degrees to be completed within 7 (3 + 4) years.

Undergraduates accepted to an Accelerated Graduate Degree (AGD) program can begin taking master's level classes while still in the B.A. program. These graduate credits can be used for both the undergraduate and graduate level coursework and will help facilitate an easy and fast transition into the master's program if a student is accepted. In order to be accepted into the AGD, please see your advisor to see if you qualify for one of these positions.

AGD applicants who meet these program GPA admission requirements must comply with all other admission standards. Also, it is important to note that during the last semester of the undergraduate degree program, students in the AGD program must apply for formal admission to the PharmD program.

Undergraduates accepted to an Accelerated Graduate Degree (AGD) program can begin taking graduate level classes while still in their undergraduate program. These graduate credits can be used for both the undergraduate and graduate level coursework and will help facilitate an easy and fast transition into a graduate program if a student is accepted. To be accepted into the AGD, please see your advisor to see if you qualify for one of these positions.

Undergraduates accepted into an AGD program can begin taking graduate coursework during their junior or senior year.

Graduate coursework/credit will appear only on the graduate transcript, and graduate course grades will be calculated towards the graduate GPA.

Note: Accelerated Graduate Degree programs may have admission requirements that differ from the admission requirements for the regular graduate degree. Students should check with the chosen graduate degree program.

Application Process

1. During the junior or senior year, eligible students should meet with their Undergraduate Advisor and the Director of Graduate Studies of their chosen graduate degree program to develop an AGD plan of study. Any changes to the AGD plan of study must be approved by the undergraduate advisor and director of graduate studies in writing to the dean of the college.
2. The student's acceptance into the AGD program is subject to the approval of the plan of study by the dean of the college.
3. Students accepted into the AGD program should apply for admission to the chosen degree program for the first semester after the bachelor's degree is awarded. Applications should be submitted during the last semester of the senior year.

Students must maintain a minimum GPA of 3.0 for all graduate credit toward their graduate degree program.

Withdrawal from the AGD

A student may withdraw at any time from the AGD by informing the undergraduate advisor, the director of graduate studies and the dean of the college in writing. A student's status will then revert to the standard undergraduate degree program. Any graduate hours earned must be approved for use in fulfillment of bachelor's degree requirements by the student's undergraduate dean.

From Undergraduate to Graduate Student

Beginning with the semester after the student has earned the bachelor's degree and has been accepted into a graduate degree program, the student is enrolled in the graduate program and is assessed tuition and fees at the graduate rate. All rules regarding graduate education will apply to the student once admitted into the graduate degree program.

Pharmaceutical Sciences, M.A. (Non-Thesis Option)

Program Description

The Department of Pharmaceutical Sciences at the Marshall University School of Pharmacy offers the Master of Arts (M.A.) (non-thesis option). The M.A. degree track prepares students for further graduate study or employment in the pharmaceutical sciences.

Admission Requirements

Applications may be submitted under the Graduate applicant link on Marshall University's Admissions website (https://www.marshall.edu/admissions/apply/). Requirements for program admission include:

- An earned baccalaureate degree from an accepted, accredited institution with a recommended degree GPA of 3.0 on a 4.0 scale.
- Two letters of recommendation from academic or professional references
- Official transcripts from degree-granting institution (additional transcripts may be required, at the discretion of the program)
- No entrance exam is required; however, a Graduate Record Exam (GRE) score may be submitted to strengthen an application.
- Complete an on-site or video interview.
- International applicants are required to have earned a Test of English as a Foreign Language (TOEFL) score of at least 80 or minimal score on an alternative test to demonstrate language proficiency. Please visit the international applicants section under Admissions in this catalog for more information.

Program Requirements

Requirement for All Degrees

A Plan of Study approved by the student's advisor must be submitted for approval to the director of graduate studies before the student registers for his or her 12th semester hour. The Plan of Study is a student's "blueprint" for completing the graduation requirements.

M.A. Degree Requirements for Non-Thesis Option

- Students must complete the required 32 hours of graduate 500-800 level coursework with a minimum of 16 hours of 600 or higher level courses in any campus college or school.
- Not more than 4 hours of Graduate Seminar (MSPS 542 Science Seminars) may be used to complete the M.A. program credit requirement.
- Not more than 4 semester hours credit in Independent Study or Special Topics can be used to complete the elective requirements.

Plan of Study

Code	Title	Credit Hours
The following core curriculum courses are required including four one-credit classes of MSPS 542		14
MSPS 561	Biopharmaceutics I	
or PHAR 531	Biopharmaceutics I	
MSPS 562	Biopharmaceutics II	
or PHAR 532	Biopharmaceutics II	
MSPS 544	Prin Dis Drug Action	
or PHAR 544	Prin of Disease & Drug Action	
MSPS 542	Science Seminars	
Eighteen (18) credit hours of electives are required. Electives include, but are not limited to:		18
MSPS 512	Med Chem & Drug Disc	
MSPS 531	Regulatory Affairs	
MSPS 581	Special Topics	
MSPS 632	Prod Dev by Quality Design	
MSPS 685	Independent Study	
MSPS 686	Problem Report	
PHAR 523	Pharmacogenomics	
PHAR 537	Pharmacokinetics	
PHAR 542	Immunology and Microbiology	
PHAR 547	Pharmaceutical Chemistry	

PHAR 635	Research Outcomes Patient Care
PHAR 801	Special Topics I
PHAR 802	Special Topics II
Total Credit Hours	**32**

Pharmaceutical Sciences, M.S.

Program Description

The Department of Pharmaceutical Sciences at the Marshall University School of Pharmacy offers the Master of Science (M.S.) degree with a major in Pharmaceutical Sciences. Students complete the requirements for a M.S. under a faculty mentor, in areas ranging from cellular and molecular pharmacology to drug formulation and methods of drug delivery.

The M.S. (Thesis) degree in Pharmaceutical Sciences is preparation for further study or employment requiring pharmaceutical research experience and requires a thesis. A M.S. student must be mentored by a faculty member, so applicants are encouraged (but not required) to contact potential faculty advisors about research projects and graduate assistantships prior to applying for admission. Information about faculty may be accessed through the School of Pharmacy website.

Admission Requirements

Applications may be submitted under the Graduate applicant link on the Marshall University's Admissions website (http://www.marshall.edu/graduate/admissions/how-to-apply-for-admission (http://www.marshall.edu/graduate/admissions/how-to-apply-for-admission/)). Requirements for program admission include:

- An earned baccalaureate degree from an accepted, accredited institution with a recommended degree GPA of 3.0 on a 4.0 scale.
- Two letters of recommendation from academic or professional references.
- Official transcripts from degree-granting institution (additional transcripts may be required, at the discretion of the program).
- No entrance exam is required; however, a Graduate Record Exam (GRE) score may be submitted to strengthen an application.
- International applicants are required to have earned a Test of English as a Foreign Language (TOEFL) score of at least 80 or minimal score on an alternative test to demonstrate language proficiency. Please visit the international applicants website (https://www.marshall.edu/admissions/graduate-proof-of-english-proficiency/) for more information.

Review of applications will begin on February 1 and continue on a rolling basis.

Graduate Assistantships

All M.S. applicants will be considered for funding (up to $12K/year stipend plus tuition waiver) after the requirements for enrollment have been met (e.g., transcripts, recommendation letters, interview etc.). There are a limited number of graduate assistantships offered on a competitive basis and there is no application to apply for funding. Once a student is enrolled into the M.S. program, the Admissions Committee will review their credentials to determine if program funding will be extended.

Program Requirements

Requirement for All Degrees

A Plan of Study approved by the student's advisor must be submitted for approval to the Director of Graduate Studies before the student registers for his or her 12th semester hour. The Plan of Study is a student's "blueprint" for completing graduation requirements. Students must also have a thesis committee (M.S.) consisting of no fewer than three faculty (including the student's advisor) assembled by the end of their first year. Students must meet with their committees at least once within their first year and at least once per semester (excluding the defense) in subsequent years.

M.S. Degree Requirements for Thesis Option

- Students must complete the graduate coursework as noted in the following section, including MSPS 699 Thesis. The maximum number of credits that may be earned for the thesis is 12 hours.
- Candidates must register for and participate in MSPS 542 Science Seminars, Graduate Seminar, during each of the semesters in which they are actively enrolled in the graduate program.
- Not more than 4 hours of Graduate Seminar (MSPS 542 Science Seminars) may be used to complete the M.S. program credit requirement.
- Successful completion of the master's program requires a GPA of 3.0 or higher, and no more than 6 credit hours of *C* grades may be applied to the total hours for graduation.
- Upon completion of course requirements and the thesis, M.S. candidates must pass a comprehensive oral examination.
- No more than 12 credit hours of PHAR courses may be applied towards the degree.

Plan of Study

Code	Title	Credit Hours
The following courses are required:		
MSPS 561	Biopharmaceutics I	3
or PHAR 531	Biopharmaceutics I	
MSPS 562	Biopharmaceutics II	3
or PHAR 532	Biopharmaceutics II	
MSPS 544	Prin Dis Drug Action	4
or PHAR 544	Prin of Disease & Drug Action	
MSPS 542 Science Seminars		4
MSPS 699 Thesis		12
Six credit hours of electives are required. Electives include, but are not limited to:		**6**
PHAR 537	Pharmacokinetics	
MSPS 632	Prod Dev by Quality Design	
PHAR 635	Research Outcomes Patient Care	
PHAR 542	Immunology and Microbiology	
PHAR 523	Pharmacogenomics	
PHAR 547	Pharmaceutical Chemistry	
MSPS 685	Independent Study	
MSPS 686	Problem Report	
MSPS 581	Special Topics	
Total Credit Hours		**32**

Pharmacy, Dual Degree: Pharm.D. and M.B.A.

Students admitted to the School of Pharmacy may also seek admission to the Lewis College of Business to pursue a Master of Business Administration (M.B.A.) degree. The application procedure and the student's enrollment status will vary depending on the student's undergraduate degree.

All students wishing to pursue the dual degree option must first consult with the Pharm. D. advisor regarding when they should apply for admission. Students who are admitted to the M.B.A. program will be advised by a Pharm.D. advisor and an M.B.A. advisor. The advisors are responsible for ensuring students are making appropriate progress toward both degrees, enroll in the proper sequence of courses, and enroll in the proper section of the courses.

Admission Requirements

Pharm. D. Students Holding a Baccalaureate Degree: All students who have earned a baccalaureate degree from an accepted, accredited college or university may apply for admission to the M.B.A. program. Students must meet the published admission criteria and complete the published degree requirements for the M.B.A. program. When admitted, the student will be classified depending upon his or her completion of core business courses.

Pharm. D. Students Who Do Not Have a Baccalaureate Degree: Students who have not earned a baccalaureate degree from an accepted, accredited college or university may apply for admission to the M.B.A. program and pursue the degree under the following conditions. During their enrollment in the two degree programs, students who do not hold the baccalaureate will be continuously classified as Provisionally Admitted for the M.B.A. program. Students beginning the final semester of the Pharm. D. program of study will apply for graduation. Students in good academic standing in both programs and eligible to receive both degrees at the end of the term will be reclassified as Fully Admitted to the M.B.A. program. Students who withdraw or are dismissed from the Pharm. D. program will also be withdrawn from the M.B.A. program regardless of level of degree completion or academic standing.

Pharmacy, Pharm.D.

Program Description

The mission of the Marshall University School of Pharmacy is to prepare its students to become pharmacy practitioners that excel as skilled and productive health care professionals in the provision of services, in the standards of care, and in the discovery of new knowledge that ensures optimal medication therapy outcomes. The school utilizes an integrated, inter-professional education approach combined with a team-based clinical philosophy that emphasizes inquiry-based learning, while advancing scholarship, research, and patient care, all directed toward the goal of improving the health and well-being of West Virginians, residents of the Tri-state region, and the nation.

Central to the program's mission is the development of the key skills and abilities (termed terminal outcomes) required for competent pharmacy practice. These terminal outcomes expect all students who graduate from the Marshall University School of Pharmacy Pharm.D. program to be able to:

1. LEARNER: Seek, analyze, integrate, and apply foundational knowledge of medications and pharmacy practice (biomedical; pharmaceutical; social, behavioral, administrative; and clinical sciences; drug classes; and digital health).
2. PROBLEM-SOLVER: Use problem solving and critical thinking skills, along with an innovative mindset, to address challenges and to promote positive change.
3. COMMUNICATOR: Actively engage, listen, and communicate verbally, nonverbally, and in writing when interacting with or educating an individual, group, or organization.
4. ALLY: Mitigate health disparities by considering, recognizing, and navigating cultural and structural factors (e.g. social determinants of health, diversity, equity, inclusion, and accessibility) to improve access and health outcomes.
5. PROVIDER: Provide whole person care to individuals as the medication specialist using the Pharmacists' Patient Care Process.
6. ADVOCATE: Promote the best interests of patients and/or the pharmacy profession within healthcare settings and at the community, state, or national level.
7. STEWARD: Optimize patient healthcare outcomes using human, financial, technological, and physical resources to improve the safety, efficacy, and environmental impact of medication use systems.
8. COLLABORATOR: Actively engage and contribute as a healthcare team member by demonstrating core interprofessional competencies.
9. PROMOTER: Assess factors that influence the health and wellness of a population and develop strategies to address those factors.
10. LEADER: Demonstrate the ability to influence and support the achievement of shared goals on a team, regardless of one's role.
11. SELF-AWARE: Examine, reflect on, and address personal and professional attributes (e.g., knowledge, metacognition, skills, abilities, beliefs, biases, motivation, help-seeking strategies, and emotional intelligence that could enhance or limit growth, development, & professional identity formation.
12. PROFESSIONAL: Exhibit attitudes and behaviors that embody a commitment to building and maintaining trust with patients, colleagues, other health care professionals, and society.

The program requires a minimum of 4 years / 11 semesters of coursework, capstone, and experiential learning.

Accreditation Status

Marshall University's Doctor of Pharmacy program has been granted full accreditation status by the Accreditation Council for Pharmacy Education (ACPE) Board of Directors. For an explanation of the ACPE accreditation process, please contact the Accreditation Council for Pharmacy Education, 190 S. LaSalle Street, Suite 3000, Chicago, IL 60603-3446, 312-644-3575; FAX 866-228-2631, website www.acpe-accredit.org (http://acpe-accredit.org/).

Admission Requirements

Minimum Requirements for Admission

Admission to Marshall University School of Pharmacy is competitive. The school admits a maximum of 80 students per year. Applicants are directed to apply to the Marshall University School of

Pharmacy through the Pharmacy College Application Service (PharmCAS, www.pharmcas.org (http://www.pharmcas.org/)).

Regular admission to the Pharm.D. program requires the student to have:

1. Students enrolled in an undergraduate degree should have completed all required pre-pharmacy courses (*note:* inquiries regarding prerequisite course equivalency should be forwarded to MUSOP Student Affairs at 304-696-7354). These courses include:

Code	Title	Credit Hours
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
MTH 140	Applied Calculus	3
BSC 120	Principles of Biology I	3
BSC 120L	Principles of Biology I Lab	1
BSC 121	Principles of Biology II	3
BSC 121L	Prin of Biology II Lab	1
BSC 227	Human Anatomy	4
BSC 227L	Human Anatomy Lab	1
BSC 228	Human Physiology	4
BSC 228L	Human Physiology Lab	1
BSC 250	Microbiol & Human Disease	4
BSC 250L	Microbio and Human Disease Lab	1
CHM 211	Principles of Chemistry I	3
CHM 212	Principles Chemistry II	3
CHM 217	Principles of Chem Lab I	2
CHM 218	Principles of Chem Lab II	2
CHM 355	Organic Chemistry I	3
CHM 356	Organic Chemistry II	3
CHM 361	Intro Organic Chm Lab	3
STA 225	Introductory Statistics (CT)	3
PHY 201	College Physics I	3
PHY 202	General Physics I Laboratory	1
PSY 201	Introductory Psychology (CT) ((Or other approved social science course))	3

**Course substitutions are available. Please contact the MUSOP Office of Student Affairs for details.*

2. A recommended minimum undergraduate Grade Point Average (GPA) of 2.5 or higher on a 4.0 scale for all previously completed undergraduate university work.

3. A recommended minimum GPA of 2.75 or higher on a 4.0 scale for all prerequisite courses.

4. Three (3) letters of professional recommendation requested from persons such as pharmacists, supervisors, and professors who can tell us about your academic and/or work capabilities which would enable you to succeed in the School of Pharmacy.

5. Completed an application through PharmCAS.

6. Submitted all required application fees.

7. Successfully completed an interview.

Early Assurance Pathway to PharmD Program

Marshall University School of Pharmacy (MUSOP) offers an early assurance program known as the Pharmacy Early Assurance Scholars Program. The program is designed for outstanding students who are committed to pursuing pharmacy as a career upon high school graduation. The program is intended to recognize outstanding students with provisional early assurance to the MUSOP PharmD program. Students who are admitted into this program are expected to meet all requirements to successfully matriculate into the MUSOP PharmD Program. All Early Assurance pathway students will receive academic advising by a pre-professional academic advisor in the College of Science. Additionally, students will be granted full admission to the pre-pharmacy club with access to members-only networking events, exclusive merchandise, and all associated pharmacy club fees covered by the School of Pharmacy.

Program Requirements

- Students enrolling directly from high school must enroll as a freshman.
- Students must submit the Marshall Pharmacy Early Assurance Scholars Program Application no later than June 1 of the high school graduation year.
- Students must indicate pre-pharmacy as their intended concentration upon entry to Marshall University. Note: Students have the choice of pursuing the 1+4, 2+4 accelerated pathway or one of the 3+4 accelerated pathways. If pursuing the 3+4 accelerated pathway, the student should choose Biology, Chemistry, Health Sciences, or Pharmaceutical Sciences as their major.

All prerequisite coursework must be completed at Marshall University or at an approved partner institution (waivers may be considered on a case-by-case basis for exceptional circumstances). All coursework taken off campus must be obtained from an accepted, accredited U.S. institution for a letter grade. Pass/fail courses are not accepted.

Students must maintain continuous full-time university enrollment (excluding summer terms).

Note: Students who do not submit the early assurance application by June 1 of the high school graduation year will not be eligible for early assurance program but can still pursue the indicated accelerated pathways if they meet the GPA requirements.

ACCELERATED PATHWAYS

Marshall University School of Pharmacy has partnered with Marshall University at the undergraduate level to provide a seamless, accelerated transition into pharmacy school. By offering multiple accelerated pathways, Marshall University undergraduate students have the ability to choose the pathway that is the best fit to their particular needs. Accelerated pathways available include:

1+4 Accelerated Pathway for Exceptional Students

Earn your Pharm.D. in 5 years with this fast-track option.

The accelerated pathway is designed for high school students with a strong academic record and demonstrated motivation to enter the

field of pharmacy. Students who have met the below criteria during their high school career are eligible to apply:

- ACT MATH of 24 (or equivalent SAT/Placement score; for MU pre-requisite courses)
- ACT ENG of 21 (or equivalent SAT score for MU pre-requisite courses)

Minimum unweighted high school grade point average of 3.5 on a 4.0 scale

Applications will be evaluated by the Admissions Committee, and students who meet the requirements will be invited to interview for the PharmD program. Interviews will be conducted in the same manner as traditional PharmD interviews. Students who successfully complete the interview will be offered conditional admissions to the PharmD program for the following year. Full admission will be granted once all admissions requirements are met:

- If attending Marshall University to complete their pre-requisite coursework, students must declare a Pharmaceutical Sciences major. *Exceptions may be made on a case-by-case basis based on availability of courses.
- Successful completion of minimum of 40 prerequisite credit hours prior to matriculation.
- A minimum of 3.3 cumulative GPA in the prerequisite coursework.
- Any additional required materials (transcripts, letters of recommendation, etc.) as outlined by the Admissions Committee.

Students who are conditionally admitted but do not maintain the above requirements will still be eligible to apply to the PharmD program through either the Early Assurance program or traditional application process.

International Students: International students are welcome to apply and will be required to complete the same criteria as domestic students (above). Additional requirements such as an English Proficiency test, immunization record, proof of funding and other requirements as stipulated by Marshall University must be met if requested. Applications will be evaluated by the Admissions Committee, and students who meet the requirements will be invited to interview virtually for the PharmD program. Interviews will be conducted in the same manner as traditional PharmD interviews. Students who successfully complete the interview will be offered conditional admissions to the PharmD program for the following year. Full admission will be granted once all admissions requirements are met:

- Students must declare a Pharmaceutical Sciences major and complete prerequisite coursework at Marshall University. *Exceptions may be made on a case-by-case basis based on availability of courses.
- Successful completion of a minimum of 40 prerequisite credit hours prior to matriculation
- A minimum of 3.3 cumulative GPA in the prerequisite coursework
- Any additional required materials (transcripts, letters of recommendation, etc.) as outlined by the Admissions Committee. Students admitted to the PharmD program through this pathway are required to complete a 0-credit pre-pharmacy boot camp in summer before enrolling for PharmD courses. Additionally, students in this pathway must join and actively participate in the pre-pharmacy club.

The prerequisite courses include:

Code	Title	Credit Hours
ENG 101	Beginning Composition	3
MTH 140	Applied Calculus	3
STA 225	Introductory Statistics (CT)	3
BSC 120	Principles of Biology I	3
BSC 120L	Principles of Biology I Lab	1
BSC 121	Principles of Biology II	3
BSC 121L	Prin of Biology II Lab	1
BSC 227	Human Anatomy	4
BSC 227L	Human Anatomy Lab	1
BSC 228	Human Physiology	4
BSC 228L	Human Physiology Lab	1
BSC 250	Microbiol & Human Disease	4
BSC 250L	Microbio and Human Disease Lab	1
CHM 211	Principles of Chemistry I	3
CHM 212	Principles Chemistry II	3
CHM 217	Principles of Chem Lab I	2
CHM 218	Principles of Chem Lab II	2
CHM 355	Organic Chemistry I	3

**Student plans will vary based on prior completed coursework, course availability, and other variables. Course substitutions may be requested. Please contact Office of Student Affairs for additional information.*

2+4 Accelerated Pathway

Earn your Pharm.D. in 6 years with this fast-track option. Students must complete a minimum of 55 credit hours of prerequisites as indicated in general admissions criteria.

Marshall University College of Science Pre-Pharmacy 2+4 Accelerated Pharm.D. Pathway.

Notes: Students should have a minimum high school GPA of 3.3 and prerequisite GPA of 2.75 and submit all other materials as required for application. Students are not required to complete the bachelor's degree to enter the program under this option.

3+4 Accelerated Pathways

Earn both your bachelor's degree and Pharm.D. degree in 7 years with one of the following fast-track options.

- Marshall University College of Science Chemistry Major 3+4 Accelerated B.S.-to-Pharm.D. Pathway
- Marshall University College of Science Biology Major 3+4 Accelerated B.S.-to-Pharm.D. Pathway
- Marshall University College of Health Professions Health Sciences Major 3+4 Accelerated B.S.-to-Pharm.D. Pathway

- Marshall University School of Pharmacy Pharmaceutical Sciences Major 3+4 Accelerated B.S.-to-Pharm.D. Pathway

Note: Students should have a minimum high school GPA of 3.3 and prerequisite GPA of 2.75 and submit all other materials as required for application.

Prerequisite Requirements for International Applicants with Undergraduate Pharmacy Degrees

International applicants who have completed a BS in Pharmacy at an international institution are eligible to apply for the PharmD program. The process to apply to the PharmD program is to submit an application through PharmCAS and pay applicable application fees. Applicants must have a minimum of 3.0 GPA on a 0 to 4.0 scale. Transcripts must be evaluated by a NACES Member evaluation company. A complete list that the NACES member list can be found at www.naces.org/members. Evaluations must be based on authenticated and/or verified documents and cannot be based on scans or unverified document. Applicants will also submit 3 letters of recommendation with their application and meet Marshall University English Proficiency requirements. Applicants must complete an interview with the School of Pharmacy. For international applicants, a virtual interview option will be available.

Academic Performance

Students are eligible for graduation upon successful completion of all academic (courses and examinations) and clinical (experiential learning) coursework. The student must earn a minimum of 155 semester credit hours. The expected graduation grade point average is 3.0 with the minimum grade point average of 2.5. The student is responsible for knowing and satisfying degree and graduation requirements. Students must be enrolled in the term in which they plan to graduate.

Time Limitations

If a student has not completed his/her Pharm.D. degree within six years from the end of the first course to be counted toward his/her degree, and if the student has not been enrolled in a course toward that degree for the most recent one year when that seven-year limit is reached (meaning the sixth year), then the student will be dropped from the program. To continue to work on that degree, the student must reapply for admission to that degree program through the regular graduate admission process, and pay the appropriate admission fees.

Plan of Study

The curriculum is designed to be completed over 4 years/ 11 semesters. A summary of the courses composing the curriculum is found below:

Plan of Study Grid

First Year		
Fall		**Credit Hours**
PHAR 512	Pharmacy Skills Lab I	2
PHAR 524	Drug Info & Comm Skills	2
PHAR 531	Biopharmaceutics I	3
PHAR 533	Introduction to Pharmacy 1	3
PHAR 542	Immunology and Microbiology	4
PHAR 547	Pharmaceutical Chemistry	4
PHAR 591	Cont Prof Dev (CPD) 1	1
	Credit Hours	**19**
Spring		
PHAR 523	Pharmacogenomics	2
PHAR 592	Cont Prof Dev (CPD) 2	1
PHAR 532	Biopharmaceutics II	3
PHAR 536	Introduction to Pharmacy 2	3
PHAR 537	Pharmacokinetics	3
PHAR 538	Pharmacy Skills Lab 2	3
PHAR 544	Prin of Disease & Drug Action	4
	Credit Hours	**19**
Summer		
PHAR 549	Intro to Community Pharm IPPE	0
PHAR 550	Intro to Institutional IPPE	0
	Credit Hours	**0**
Second Year		
Fall		
PHAR 623	Patient Safety	2
PHAR 593	Cont Prof Dev (CPD) 3	1
PHAR 635	Research Outcomes Patient Care	3
PHAR 636	Pharm Skills Lab III	3
PHAR 641	Therapeutics 1 - OTC/Self-Care	4
PHAR 662	Pharmacy Administration	6
	Credit Hours	**19**
Spring		
PHAR 637	Pharm Skills Lab IV	3
PHAR 594	Cont Prof Dev (CPD) 4	1
PHAR 652	Therapeutics 2 - Cardiology	5
PHAR 643	Therapeutics 3 GI & Renal	4
PHAR 644	Therapeutics 4 - Endocrine	4
PHAR 801	Special Topics I (Elective 3 SCH)	3
	Credit Hours	**20**
Summer		
PHAR 649	Intro Outpt Clin Skills IPPE	0
PHAR 650	Intro Inpat Clin Skills IPPE	0
	Credit Hours	**0**
Third Year		
Fall		
PHAR 735	Pharmacy Law & Ethics	3
PHAR 595	Cont Prof Dev (CPD) 5	1
PHAR 737	Pharmacy Skills Lab 5	3
PHAR 752	Therapeutics 6 - Neuro/Psych	5
PHAR 762	Infect Disease Therapeutics	5
	Credit Hours	**17**
Spring		
PHAR 724	Special Populations	3
PHAR 596	Cont Prof Dev (CPD) 6	1
PHAR 730	Therapeutics 8 - Derm/Opht/MUS	3
PHAR 743	Therapeutics 9 - Hem/Oncology	4
PHAR 736	Pharmacy Skills Lab 6	3

PHAR 802	Special Topics II (Elective 3 SCH)	3
	Credit Hours	**17**
Summer		
PHAR 881	APPE - Adv Inpat Clin Skills	5
PHAR 882	APPE - Adv Outpat Clin Skills	5
	Credit Hours	**10**
Fourth Year		
Fall		
PHAR 891	Pharmacy Capstone I	2
PHAR 883	APPE - Advanced Community	5
PHAR 884	APPE 4-Adv Institutional	5
PHAR 885	APPE - Transitions of Care	5
	Credit Hours	**17**
Spring		
PHAR 886	APPE - Diverse Populations	5
PHAR 887	APPE - Elective (Elective (10 hours as 2 courses, 5 SCH each.)	10
PHAR 892	Pharmacy Capstone 2	2
	Credit Hours	**17**
	Total Credit Hours	**155**

Note: PHAR courses may not always coincide with the university academic calendar.

Courses A-Z

A

- Accountancy (ACC) (p. 366)
- Adult & Continuing Education (ACE) (p. 368)
- Anatomy & Cell Biology (ACB) (p. 371)
- Anesthesia (ANS) (p. 373)
- Anthropology (ANT) (p. 373)
- Applied Behavior Analysis (ABA) (p. 374)
- Applied Music (MUSA) (p. 374)
- Art (ART) (p. 375)
- Arts & Society-Humanities (A&S) (p. 376)

B

- Biochemistry (BIC) (p. 377)
- Biological Science (BSC) (p. 377)
- Biomedical Research (BMR) (p. 380)
- Biomedical Science (BMS) (p. 381)

C

- Cardiovascular Services (CVS) (p. 381)
- Chemistry (CHM) (p. 381)
- Civil Engineering (CE) (p. 383)
- Classics (CL) (p. 383)
- Clinical Translational Science (CTS) (p. 384)
- Communication Disorders (CD) (p. 385)
- Communication Studies (CMM) (p. 387)
- Computer & Info Security (CYBR) (p. 388)
- Computer Science (CS) (p. 389)
- Counseling (COUN) (p. 391)
- Criminal Justice (CJ) (p. 396)
- Cultural Studies-Humanities (CULS) (p. 398)
- Curr & Inst (CI) (p. 399)
- Curr & Inst - Educa Computing (CIEC) (p. 402)
- Curr & Inst - Math Educa (CIME) (p. 403)
- Curr & Inst - Deaf And Hard Of Hearing (CIDH) (p. 404)
- Curr & Inst - Literacy Educa (CIRG) (p. 404)
- Curr & Inst - Visually Impaired (CIVI) (p. 406)
- Curr & Inst Science Educa (CISE) (p. 407)
- Curr & Inst Second Lang (CISL) (p. 408)
- Curr Inst Special Ed (CISP) (p. 409)
- Cyber Forensics and Security (CFS) (p. 411)

D

- Dermatology (DERM) (p. 412)
- Dietetics (DTS) (p. 412)
- Doctor-Business Administration (DBA) (p. 413)

E

- Early Childhood Education (ECE) (p. 414)
- Economics (ECN) (p. 414)
- Educational Foundations (EDF) (p. 415)
- Electrical Engineering (EE) (p. 416)
- Emergency Medical Services (EMS) (p. 418)
- Engineering & Science (ENGR) (p. 418)
- Engineering Management (EM) (p. 419)
- English (ENG) (p. 420)
- Entrepreneurship (ENT) (p. 423)
- Environmental Engineering (ENVE) (p. 423)
- Environmental Science (ES) (p. 424)
- Exercise Science and Sport (ESS) (p. 426)

F

- Family Community Health (FCH) (p. 428)
- Finance (FIN) (p. 430)
- Forensic Science (FSC) (p. 430)
- French (FRN) (p. 433)

G

- Geography (GEO) (p. 433)
- Geology (GLY) (p. 435)

H

- Health Care Administration (HCA) (p. 436)
- Health Education (HE) (p. 437)
- Health Informatics (HIN) (p. 437)
- Health Professions (HP) (p. 438)
- Health Science (HS) (p. 439)
- Historical Studies-Humanities (HIST) (p. 441)
- History (HST) (p. 441)

- Human Resource Management (HRM) (p. 443)
- Humanities (HUMN) (p. 444)

I

- Instruct Tech-Library Science (ITL) (p. 445)
- Interdisciplinary Medicine (IDM) (p. 446)

L

- Latin (LAT) (p. 447)
- Leadership Studies (LS) (p. 448)
- Legal Environment (LE) (p. 452)
- Library Science (LSC) (p. 452)
- Literary Studies-Humanities (LITS) (p. 453)

M

- Management (MGT) (p. 453)
- Management Information Systems (MIS) (p. 455)
- Marketing (MKT) (p. 456)
- Mathematics (MTH) (p. 457)
- Mechanical Engineering (ME) (p. 458)
- Medical Curriculum (MDC) (p. 459)
- Medicine (MED) (p. 461)
- Mgt Prac Nurse Anesthesia (MPNA) (p. 462)
- Microbiology (MCB) (p. 464)
- Mine Safety (MSF) (p. 465)
- Music (MUS) (p. 466)
- Music Ensembles (MUSE) (p. 469)
- Music Program (MUSP) (p. 470)

N

- Nat Resources & Environment (NRE) (p. 470)
- Natural Res Rec Mgt (NRRM) (p. 471)
- Neurology (NEU) (p. 472)
- Nursing (NUR) (p. 472)

O

- Obstetrics/Gynecology (OBG) (p. 475)
- Ophthalmology (OPH) (p. 476)
- Orthopaedics (ORT) (p. 476)

P

- Pathology (PTH) (p. 477)
- Pediatrics (PED) (p. 477)
- Pharmaceutical Sciences (MSPS) (p. 478)
- Pharmacology (PMC) (p. 478)
- Pharmacy (PHAR) (p. 479)
- Philosophy (PHL) (p. 483)
- Physical Science (PS) (p. 484)
- Physical Therapy (PT) (p. 485)
- Physician Assistant (p. 488)
- Physics (PHY) (p. 490)
- Physiology (PHS) (p. 491)
- Political Science (PSC) (p. 492)
- Psychiatry (PSI) (p. 492)
- Psychology (PSY) (p. 493)
- Public Administration (PADM) (p. 498)
- Public Health (PH) (p. 499)

R

- Radiology (RAD) (p. 501)
- Religious Studies (RST) (p. 501)

S

- Safety Technology (SFT) (p. 501)
- School Psychology (SPSY) (p. 503)
- Social Studies (SOS) (p. 504)
- Social Work (SWK) (p. 504)
- Sociology (SOC) (p. 506)
- Spanish (SPN) (p. 508)
- Sport Tourism Hospitality Mgt (STHM) (p. 510)
- Statistics (STA) (p. 511)
- Surgery (SUR) (p. 512)

T

- Technology and Engineering (TE) (p. 513)
- Technology Management (TM) (p. 513)
- Theatre (THE) (p. 514)

SPN

Abbreviations

Abbreviation	Description
PR	Prerequisite
CR	Corequisite
REC	Recommended
I	Fall semester
II	Spring semester
S	Summer
lec - lab	Lecture and laboratory hours per week (e.g., 2 lec-4 lab means two hours lecture and four hours laboratory per week)
S/U	Graded Satisfactory/Unsatisfactory

Accountancy (ACC)

ACC 510 Survey of Accounting **3 Credit hours**
A survey of financial and managerial accounting principles and procedures that supports external financial reporting and management decision making for business entities.
Grade Mode: Normal Grading Mode

ACC 512 Govt NFP Accounting **3 Credit hours**
Accounting, reporting, and analysis of both governmental entities and not-for-profit entities will be examined with the focus on the preparation and use of the information for decision makers.
Grade Mode: Normal Grading Mode

ACC 514 Corp and Partner Accounting **3 Credit hours**
Accounting, reporting, and analysis of complex corporate transactions, with an emphasis on business combinations and international transactions. Accounting for and understanding issues related to partnerships is also covered.
Grade Mode: Normal Grading Mode

ACC 544 Consulting for CPAs **3 Credit hours**
To acclimate students to the consulting work environment; emphasis on collecting relevant information to provide comprehensive solutions. To provide concrete examples of this process. The course will focus on estate tax calculations and planning; retirement and investment planning.
Grade Mode: Normal Grading Mode

ACC 548 Taxation of Entities **3 Credit hours**
Advanced course that emphasizes the taxation of entities such as corporations, partnerships, estates, trusts, and not-for-profits. Includes state and local taxation and multinational taxation.
Grade Mode: Normal Grading Mode

ACC 580 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ACC 581 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ACC 582 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ACC 612 Account Function Business **3 Credit hours**
The meaning, uses, and limitations of the historical and projected quantitative data produced by the accounting process. Emphasis is given to the utilization of accounting information: (1) by marketing, production, and financial executives in planning and controlling business operations and (2) by investors, creditors, governmental agencies, and other external groups having an interest in the operating results and financial position of business firms.
Grade Mode: Normal Grading Mode

ACC 613 Profit Planning & Control **3 Credit hours**
Determination, analysis, and reporting of data for planning and controlling operations. Includes flexible budgets, standard costs, and systems of determining historical costs.
Grade Mode: Normal Grading Mode

ACC 614 Theory of Accounting **3 Credit hours**
History and development of accounting principles; intensive study of theoretical problems related to determination of income and presentation of financial conditions.
Grade Mode: Normal Grading Mode

ACC 615 Audit Practice & Analytics **3 Credit hours**
Legal and social responsibilities of the auditor. Verification of financial statements by independent public accountants and internal auditors including analytics, sampling, and substantive testing.
Grade Mode: Normal Grading Mode

ACC 616 Adv Income Tax Procedure **3 Credit hours**
A study of selected topics in the Internal Revenue code and Regulations with emphasis on tax accounting and research.
Grade Mode: Normal Grading Mode

ACC 617 Advanced Controllership **3 Credit hours**
Functions of the modern corporate controller. Topics and problems demonstrating the integrative nature of the controller's role are investigative. The use of the computer is integrated into the course.
Grade Mode: Normal Grading Mode

ACC 618 Accounting Research **3 Credit hours**
Examination and evaluation of current theories, issues, and problems relating to accounting. Primary emphasis on accounting theory and research.
Grade Mode: Normal Grading Mode

ACC 620 Analytic Modeling Acct **3 Credit hours**
Students will learn how to build accounting analytic models and analyze accounting data to increase profitability, reduce costs, and improve operational costs.
Grade Mode: Normal Grading Mode

ACC 632 AIS Controls **3 Credit hours**
An overview of accounting information systems auditing, controls, and governance. Uses both lecture and case analyses to learn about controls and identify their strengths and weaknesses.
Grade Mode: Normal Grading Mode

ACC 640 Forensic ACC Civil Litigation **3 Credit hours**
This course involves the examination of various services provided by financial experts during the litigation process and the financial theory and methodology behind analytic and damage issues in civil litigation.
Grade Mode: Normal Grading Mode

ACC 648 Tax Research **3 Credit hours**
Examines the primary and secondary sources of income tax law. Assignments will address using paper and electronic research tools to locate, understand and interpret primary and secondary source materials.
Grade Mode: Normal Grading Mode

ACC 650 Special Topics **1-3 Credit hours**
Grade Mode: Normal Grading Mode

ACC 651 Special Topics **1-3 Credit hours**
Grade Mode: Normal Grading Mode

ACC 660 Independent Study **1-4 Credit hours**
Independent study of a specific nature under the supervision of a faculty member with graduate status. Hours determined by the magnitude of the project. (PR: Permission of the division head and full M.B.A. admissions or permission of GSM academic advisor)
Grade Mode: Normal Grading Mode

ACC 681 Thesis **1-6 Credit hours**
Permission of the department head and full M.B.A. admission.
Attributes: Thesis
Grade Mode: Normal Grading Mode

ACC 698 Ethics in Accounting **3 Credit hours**
This course examines ethical issues facing professional accountants. Professional coles of conduct and corporate governance mechanisms will be applied to manage ethical situations.
Grade Mode: Normal Grading Mode

ACC 699 Bus Policy & Strategy **3 Credit hours**
Study of administrative decision making under conditions of uncertainity. Policy construction are top administrative level with emphasis on strategy with consideration of major functions of the business organization.
Grade Mode: Normal Grading Mode

Adult & Continuing Education (ACE)

ACE 503 Intro to Adult Learning Theory **3 Credit hours**
Designed to acquaint the student with the field of adult education and its underpinnings and the various adult learning theories and/or approaches.
Grade Mode: Normal Grading Mode

ACE 505 Inst Methods in Tech Training **3 Credit hours**
Unit and lesson planning; cooperative education as a method of instruction, project plan of instruction, classroom management and control, demonstration techniques, evaluation methods, field experience in Marketing Education classroom.
Grade Mode: Normal Grading Mode

ACE 508 Teach Methods Career Tech Educ **3 Credit hours**
Correlating Lab instruction with classroom instruction; individual and group instruction sheets and materials; the four teaching steps in career and technical education; and physical factors relating to classroom and lab.
Grade Mode: Normal Grading Mode

ACE 510 Developing Selling Curriculum **3 Credit hours**
Conduct library research, review selling content, select content objectives, identify content appropriate for the target group, prepare teaching outlines, and design evaluation instruments.
Grade Mode: Normal Grading Mode

ACE 511 Intro to Career and Tech Educ **3 Credit hours**
Designed as a follow-up to Teaching Methods in Career and Technical Education and intetnded to provide the new teacher guidance and supervision in developing teacher competence.
Attributes: Onsite Learning Experience
Grade Mode: Normal Grading Mode

ACE 512 Crs Constr Plan Career Tech Ed **3 Credit hours**
Analysis procedures for determining career and technical curriculum content; determination of program goals and objectives; involvement of advisory committees; factors, principles, and techniques of developing a course of study.
Grade Mode: Normal Grading Mode

ACE 513 Org Manage Sch Shops & Labs **3 Credit hours**
Responsibilities as a manager; methods of handling tools, equipment and supplies; project instructional resourse needs and reporting; improvement of facilities, filing system, and career and technical laboratory.
Grade Mode: Normal Grading Mode

ACE 520 Principles Cooperative Ed **3 Credit hours**
Principles for planning, implementing, and evaluating the cooperative design within the various service areas of technical education; analysis of factors which must be considered in selection of the cooperative design.
Grade Mode: Normal Grading Mode

ACE 521 Occupational Analysis **3 Credit hours**
Assist the instructor in analyzing an occupation; goals and objectives to form a basis for curriculum; classifying and describing occupations; analysis procedures; course content, and technical skills and knowledge.
Grade Mode: Normal Grading Mode

ACE 522 Admin of Cooperative Programs **3 Credit hours**
Administering cooperative education programs, recruiting, and selecting students; selecting training agencies and placing students; conducting public relations activities for the program; and advising the student organization.
Grade Mode: Normal Grading Mode

ACE 524 Safety in Career Technical Ed **3 Credit hours**
Responsibilities of the teacher in providing a safe learning working environment: Effective approaches to accident prevention: Laws and regulatory agencies regarding safety management in the classroom and laboratory.
Grade Mode: Normal Grading Mode

ACE 525 Computer Appl Bus & Mkt **3 Credit hours**
Study of computer applications and software for Business and Marketing Education.
Grade Mode: Normal Grading Mode

ACE 535 Methods of Exam Career Tech Ed **3 Credit hours**
Develop written and performance evaluation instruments: develop and use progress charts; determine appropriate grading procedures. Develop rating scales, objectives tests, classroom tests, manipulative tests, introduction to statistics.
Grade Mode: Normal Grading Mode

ACE 536 Coord Coop Career Tech Ed **3 Credit hours**
Background of Coordination; methods and techniques for evaluating and selecting work stations, student selection, placement and follow-up; role of advisory committees; method of evaluating cooperative work experience.
Grade Mode: Normal Grading Mode

ACE 540 Dev Merch/Sales Prom Curr **3 Credit hours**
Conduct library research, review merchandising and sales promotion content, objectives, identify content appropriate for the target group, prepare teaching outlines, and design evaluation instruments.
Grade Mode: Normal Grading Mode

ACE 542 Prin Prevoc Exploration **3 Credit hours**
Study of the prevocational exploration delivery system and develop instructional units which include goals, objectives, and criteria for evaluation of students.
Grade Mode: Normal Grading Mode

ACE 547 Computer Appl Career Tech Ed **3 Credit hours**
Designed to introduce modern instructional technology in today's classrooms and labs; introduction to disk operating systems, application software for instruction and instructional management, student evaluation, record keeping, and work processing.
Grade Mode: Normal Grading Mode

ACE 548 Appl Basic Skills Career Tech **3 Credit hours**
Methods, techniques, and strategies for incorporating basic skills in career and technical instruction; emphasis on reading, writing, math, oral communication, and critical thinking skills; job seeking and job keeping skills.
Grade Mode: Normal Grading Mode

ACE 549 Occup Analysis Instruct Design **3 Credit hours**
Analyzing an occupation to identify knowledge and skill; use of the analysis to develop problem solving objectives and instructional plans; emphasis on approach to facilitate student achievement of objectives.
Grade Mode: Normal Grading Mode

ACE 550 Interper Skills in Workplace **3 Credit hours**
Course is designed to provide opportunities to learn in preparation for career success with supervisors, co-workers, clients, and customers. Human relations skills are examined and related to business success.
Grade Mode: Normal Grading Mode

ACE 552 Hist & Phil of Career Tech Ed **3 Credit hours**
Historical influences in the development of workforce education in America and Europe; motivating influences and the implications of philosophy in modern career and technical education.
Grade Mode: Normal Grading Mode

ACE 559 Coord Career Tech Youth Activ **3 Credit hours**
Organize and develop a co-curricular student organization; defining the purpose of the organization; plan appication and integration into the career and technical program; competencies in leadership and team building.
Grade Mode: Normal Grading Mode

ACE 565 Career Exploration & Develop **3 Credit hours**
Exploring principles and techniques for career planning and job search. An overview of strategies for gaining a competitive edge in the labor market and experiencing a successful career beginning.
Grade Mode: Normal Grading Mode

ACE 569 Bus & Occupation Teach Methods **3 Credit hours**
Survey of materials and methods for developing competencies in teaching business education and/or occupational training programs.
Grade Mode: Normal Grading Mode

ACE 570 Practicum Adult & Tech Ed **1-4 Credit hours**
Individually designed field experience under supervision of the faculty; such experience related to the student's future professional role. (GRADING: CR/NC)
Grade Mode: Normal Grading Mode

ACE 580 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ACE 581 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ACE 582 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ACE 583 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ACE 584 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ACE 585 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ACE 586 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ACE 587 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ACE 588 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ACE 591 Workshop **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ACE 592 Workshop **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ACE 593 Workshop **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ACE 594 Workshop **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ACE 595 Hist Dev in Workforce Prep **3 Credit hours**
An overview of the historical evolution of technical education legislation; analysis of Technical Education Acts as they relate to state and local planning of technical education programs.
Grade Mode: Normal Grading Mode

ACE 600 Aspects of Train and Dev **3 Credit hours**
Overview of the training and development profession and theories that support the profession; emphasis on the variety of solutions used by HRD professionals to help improve individual and organizational performance.
Grade Mode: Normal Grading Mode

ACE 601 Philosophy Workforce Prep **3 Credit hours**
Overview of the historical origins of technical education and their relationship to educational philosophies; foundations of areas of technical education; analysis of questions fundamental to a philosophy of technical education.
Grade Mode: Normal Grading Mode

ACE 603 Intro to Adult Ed & Learners **3 Credit hours**
Designing to acquaint the student with the field of adult and continuing education, its foundations and development in this country and future trends
Grade Mode: Normal Grading Mode

ACE 605 Foundations Bus & Mkt Ed **3 Credit hours**
Application of philosophy and principles of business and marketing education to the objectives, curriculum, guidance, and teacher preparation, emphasizing the techniques for coordination of federally aided programs.
Grade Mode: Normal Grading Mode

ACE 609 Develop Training Plans for B/I **3 Credit hours**
Analysis of factors in developing local plans for business and industry; emphasis on implications of federal guidelines; factors which impinge upon programs during implementation; developing evaluation procedures.
Grade Mode: Normal Grading Mode

ACE 610 Current Issues Bus & Mkt Ed **3 Credit hours**
Individual and group analysis of current issues in business and marketing; identification of issues significant to the direction of sound business and marketing education programs.
Grade Mode: Normal Grading Mode

ACE 614 ACE & Econ Dev **3 Credit hours**
Study of the sources of data on employment needs; relationship to planning techniques for conducting a community survey; organizing data for analysis and applying the findings to the planning process.
Grade Mode: Normal Grading Mode

ACE 615 Student Career Organizations **3 Credit hours**
A study of various facets of existing state/national student organizations. Special emphasis is placed upon the organizations of student career organizations and parliamentary procedures. (PR: ACE 542 or equivalent)
Grade Mode: Normal Grading Mode

ACE 616 Community Relations in ACE **3 Credit hours**
Study of community organizations and the relationship of adult and continuing education; consideration of models for analyzing employment opportunities and occupational training needs and the process in securing community commitment.
Grade Mode: Normal Grading Mode

ACE 618 Literature Adult Contin Educ **3 Credit hours**
A program of readings and reports on specific areas in adult education or particular problems within an area of adult and continuing education. Readings to be selected cooperatively with advisor.
Grade Mode: Normal Grading Mode

ACE 628 Adult Inst Envir & Pers Aspect **3 Credit hours**
The course examines both environmental and personal factors which may impact on the adult learning process and is designed to foster awareness, which will be translated into appropriate intervention strategies.
Grade Mode: Normal Grading Mode

ACE 631 Survey Prac Computer Appl **3 Credit hours**
An introductory course for persons who want to become familiar with the application of computers in the business/industrial fields represented by adult and technical education.
Grade Mode: Normal Grading Mode

ACE 635 Spec Pract Comp App Bus & Ind **3 Credit hours**
An advanced course for persons who want to further their knowledge of the application of computers in the business and industrial fields, which are represented by adult and continuing education.
Grade Mode: Normal Grading Mode

ACE 637 Indiv Computer Prog App **3 Credit hours**
Individually designed learning activities that involve the application of previously learned theories, processes, operations, techniques, or systems. The applications are studied, analyzed, and evaluated. (PR: ATE 631, Equivalent or appropriate experience, CR/NC Grading).
Pre-req: ACE 631 or ATE 631.
Grade Mode: Normal Grading Mode

ACE 643 Teaching EFL Abroad **3 Credit hours**
Designed to explore the educational history of teaching a foreign language in different countries.
Grade Mode: Normal Grading Mode

ACE 650 Career Educ Curriculum Dev **3 Credit hours**
Instructional unit is developed to assist children and youth to achieve academic, general, or technical education and also career education goals; includes goals, objectives, procedures, student activities, resources, and evaluation.
Attributes: Onsite Learning Experience
Grade Mode: Normal Grading Mode

ACE 651 Developing Marketing Curr **3 Credit hours**
Conduct library research, review marketing content, select content objectives, identify content appropriate for the target group, prepare teaching outlines, and design evaluation instruments.
Grade Mode: Normal Grading Mode

ACE 652 Field Based Job Analysis **3 Credit hours**
Field study of job analysis, curriculum, course and program design.
Grade Mode: Normal Grading Mode

ACE 653 Develop Management Curr **3 Credit hours**
Conduct library research, review management content, select content objectives, identify content appropriate for the target group, prepare teaching outlines, and design evaluation instruments.
Grade Mode: Normal Grading Mode

ACE 655 Developing Human Resources Cur **3 Credit hours**
Conduct library research, review personnel content, select content objectives, identify content appropriate for the target group, prepare teaching outlines, and design evaluation instruments.
Grade Mode: Normal Grading Mode

ACE 656 Instr Planning for Adults **3 Credit hours**
An examination and application of the process involved in the development, operation, and evaluation of adult programs in the community, business, and industry.
Grade Mode: Normal Grading Mode

ACE 659 EFL Methods **3 Credit hours**
Designed to provide students with the latest methodologies associated with teaching English as a Foreign Language (EFL) to the adult learner. (PR: ACE 643)
Grade Mode: Normal Grading Mode

ACE 661 Practicum ACE **3 Credit hours**
Individually designed to provide field experience under the supervision of the faculty, such experience to be related to the student's project role in adult and continuing education.
Grade Mode: Normal Grading Mode

ACE 662 App Field Exp Prevoc Explor **3 Credit hours**
Students are assisted in making revisions in instructional units, organizing an advisory committee, and organizing Career Exploration Club as an integral part of the classroom function. (PR ACE 542)
Grade Mode: Normal Grading Mode

ACE 663 Practicum EFL **3 Credit hours**
Designed to engage the student in hands-on teaching in a classroom setting. (PR ACE 659)
Grade Mode: Normal Grading Mode

ACE 664 Technical Ed Practicum **3 Credit hours**
Individually designed to provide field experience under the supervision of the faculty, such experience to be related to the student's profession. (CR/NC Grading) (PR: At least 8 of the following courses and permission of instructor: ACE 601, 609, 614, 646, 648, EDA 500, 600, 640, 740)
Grade Mode: Normal Grading Mode

ACE 667 Co-Op Ed Work Force Exp **1-10 Credit hours**
Alternating or parallel periods of study and paid employment for experiential learning related to student's academic and/or professional goals (Min 50 hours paid work experienc3e per credit hour) (CR/NC GRADING)
Grade Mode: Normal Grading Mode

ACE 668 Internship Field Based Bus/Ind **3 Credit hours**
Internship in the technical content areas of marketing, merchandising, management, or technology. Evaluation of methods, and procedures in marketing, merchandising, management, or technology. (PR: ACE 609, 628, 652, and 656)
Grade Mode: Normal Grading Mode

ACE 671 Eval of Adult and Tech Educ **3 Credit hours**
An examination of the design and evaluation processes used in adult learning areas with emphasis on the T&D and technical fields as well as the general field.
Grade Mode: Normal Grading Mode

ACE 673 Assessment in Adult Tech **3 Credit hours**
Evaluation procedures in adult/technical education including principles of test construction; survey of standardized and published tests; utilization in the classroom or training department; review of statistical methods.
Attributes: Onsite Learning Experience
Grade Mode: Normal Grading Mode

ACE 675 Literature & Research ACE **3 Credit hours**
Program of readings and reports on specific areas of adult/continuing education or particular problems within an area of adult and continuing education; reading selected cooperatively with advisor.
Grade Mode: Normal Grading Mode

ACE 677 Research Method & Design ACE **3 Credit hours**
Study of methodology, application, analysis, and synthesis of research; a review of current studies with attention to statistical techniques, data collecting, data handling, and the impact of particular research.
Grade Mode: Normal Grading Mode

ACE 679 Problem Report **1-6 Credit hours**
Grade Mode: Normal Grading Mode

ACE 680 International Workforce Dev **3 Credit hours**
This course is designed for students in technical and social fields who are interested in workforce development. It has three components: education and training, collaborative research, and technical assistance.
Grade Mode: Normal Grading Mode

ACE 681 Thesis **1-6 Credit hours**
Attributes: Thesis
Grade Mode: Normal Grading Mode

ACE 685 ACE Capstone **3 Credit hours**
This course provides training and assessment experiences for students seeking Master of Science degrees in Adult and Technical Education. The student's degree portfolio and capstone assessment will be completed within this course.
Grade Mode: Normal Grading Mode

ACE 689 Grant Proposal Writing **3 Credit hours**
This course involves the development of a grant proposal and includes the steps required to produce a final document.
Grade Mode: Normal Grading Mode

ACE 690 Seminar **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ACE 691 Seminar **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ACE 692 Seminar **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ACE 702 Analysis Lit Comm Tech Coll **3 Credit hours**
Identification and analysis of current issues in community technical college teaching with application of procedures for investigation, accompanied by a critical examination of findings and their application to local programs.
Grade Mode: Normal Grading Mode

ACE 703 Interpret Utl App Res Tch **3 Credit hours**
Students will learn how to choose the appropriate statistics, interpret the outputs, and develop skills in writing about the meaning of the results.
Grade Mode: Normal Grading Mode

ACE 707 Professional Seminar I **1 Credit hour**
Selected topics in programs and institutional aassessment related to community and technical colleges.
Grade Mode: Normal Grading Mode

ACE 708 Professional Seminar II **1 Credit hour**
Selected topics in thesis proposal, overview of grantsmanship, and funding sources. Discussion of the effects of new technologies and the Internet on the proposal process.
Grade Mode: Normal Grading Mode

ACE 709 Professional Seminar III **1 Credit hour**
Provides students an opportunity to sythesize prior course experience and to prepare and present a draft thesis prospectus.
Grade Mode: Normal Grading Mode

ACE 712 Class Asses Comm Tech Coll **3 Credit hours**
Presentation of assessment principles that clearly and specifically relate to instruction, current research and new directions in the assessment field, and practical and realistic examples and suggestions.
Grade Mode: Normal Grading Mode

ACE 718 Ed and Employ Pre Diverse Pop **3 Credit hours**
The needs of diverse/special needs population, including youth and adults with disabilities, disadvantaged, limited English proficient, displaced workers, minorities, incarcerated, and single teen parents. Specific attention to federal legislation.
Grade Mode: Normal Grading Mode

ACE 723 Persp Strategies Teach Work Ed **3 Credit hours**
Teaching/learning process and consideration of teaching methods employed to encourage, guide, and evaluate community and technical college students' learning.
Grade Mode: Normal Grading Mode

ACE 726 Fund Plan Admin Issues CTC **3 Credit hours**
Governance and administration of the contemporary community and technical college in the United States with a focus on planning, funding, and selected administrative issues.
Grade Mode: Normal Grading Mode

ACE 781 Thesis **6 Credit hours**
Individual research in a selected field of community and technical college teaching under the direction of a graduate faculty member of the department.
Attributes: Thesis
Grade Mode: Normal Grading Mode

Anatomy & Cell Biology (ACB)

ACB 604 Forensic Science I **3 Credit hours**
Grade Mode: Normal Grading Mode

ACB 620 Gross Anatomy/Embroyology **8 Credit hours**
A course centered about dissection of the human body in the laboratory. Lectures are designed to guide the student and stimulate him toward independent effort.
Grade Mode: Normal Grading Mode

ACB 621 Gross Anat/Embryology I **2 Credit hours**
Morphology of the upper and lower limbs with dissection.
Grade Mode: Normal Grading Mode

ACB 622 Gross Anat/Embryology II **3 Credit hours**
Morphology of the head and neck, thorax, and abdomen.
Grade Mode: Normal Grading Mode

ACB 624 Micro Anat & Ultrastruct **4 Credit hours**
An in-depth study of the microanatomy and fine structure of human tissues, specifically designed for graduate students through special laboratories, lectures, and seminars.
Grade Mode: Normal Grading Mode

ACB 626 Adv Histological Tech **4 Credit hours**
Advanced theories and techniques of tissue preparation, straining, and histochemistry.
Grade Mode: Normal Grading Mode

ACB 628 Anatomy of Nervous System **4 Credit hours**
The gross and fine structure of the nervous system is correlated with function at each level of the spinal cord and brain. Lectures are supplemented in the laboratory by the study of microscopic sections and gross sections of the spinal cord, brain stem and whole brain.
Grade Mode: Normal Grading Mode

ACB 629 Microscopic Anat Part I **1 Credit hour**
The basic tissue types of the human body will be examined at the light and electron microscopic level.
Grade Mode: Normal Grading Mode

ACB 630 Microscopic Anat Part II **3 Credit hours**
The organ systems of the human body will be examined at the light and electron microscopic level.
Grade Mode: Normal Grading Mode

ACB 632 Prin Mammalian Develop **3 Credit hours**
A lecture course designed to present the salient features of normal human development so that students will have a basis for comprehending normal adult anatomic relations and variations, and a basis for interpreting congenital pathologic conditions.
Grade Mode: Normal Grading Mode

ACB 633 Neuroanatomy I **2 Credit hours**
To study the essential organization of the cerebrum and spinal cord, blood supply, the spinal ascending and descending pathways, and clinically related disorders.
Pre-req: BMS 600.
Grade Mode: Normal Grading Mode

ACB 634 Neuroanatomy II **2 Credit hours**
To study the functional organization and neurological disorders associated with the brainstem, thalamus, hypothalamus, cerebellum, basal ganglia, limbic system, and cerebral cortex.
Pre-req: ACB 633.
Grade Mode: Normal Grading Mode

ACB 639 Neuroanatomy Res Tech **3 Credit hours**
Class participants will be exposed to state-of-the-art neuroanatomy research techniques while in the laboratories of neuroanatomy faculty.
Grade Mode: Credit/No Credit Grade Only

ACB 640 Current Topics Cell Biol **1-3 Credit hours**
Students carry out a guided comprehensive review of the Literature on a current research topic. The topic is selected by agreement of the student and faculty member.
Grade Mode: Normal Grading Mode

ACB 641 Electron Microscopy **3 Credit hours**
The theory and practice of transmission electron microscopy (TEM). Sample preparation, TEM operation, darkroom work, manuscript preparation, and an individualized research project. (PR: Consent of instructor)
Grade Mode: Normal Grading Mode

ACB 643 Ind Research Electron Micro **3 Credit hours**
An advanced exploration of the newest information on cellular signalling pathways. Special emphasis will be placed on current literature in following signal transduction from the plasma membrane to the nucleus. PR: BMS 600 or Equivalent
Grade Mode: Normal Grading Mode

ACB 650 Research Cell Processes **1-4 Credit hours**
Provides the student with an introduction to research in cellular biology and neurobiology. The educational program is arranged in consultation with an individual faculty member. (PR: BMS 600 or equivalent).
Attributes: Thesis
Grade Mode: Normal Grading Mode

ACB 655 Digital Video Imaging **3 Credit hours**
An in-depth study of the theory and practice of fluorescence and confocal microscopy, intracellular ion measurements and immunocytochemistry. Working with instructor (two-four hours per week of lectures, laboratories, and individual discussions), the student will become familiar with aspects of research conducted in the laboratory and select an individualized research project.
Grade Mode: Normal Grading Mode

ACB 660 Current Topics Neurobiology **1-3 Credit hours**
Students carry out a guided comprehensive review of the Literature on a current research topic. The topic is selected by agreement of the student and faculty member. Prerequisite: Consent of instructor.
Grade Mode: Normal Grading Mode

ACB 675 Special Topics **1-4 Credit hours**
Present course material on special areas of research or topics which are not routinely covered in existing courses.
Grade Mode: Normal Grading Mode

ACB 676 Special Topics **1-4 Credit hours**
Present course material on special areas of research or topics which are not routinely covered in existing courses.
Grade Mode: Normal Grading Mode

ACB 677 Special Topics **1-4 Credit hours**
Present course material on special areas of research or topics which are not routinely covered in existing courses.
Grade Mode: Normal Grading Mode

ACB 720 Gross Anat & Embryology **8 Credit hours**
Grade Mode: Normal Grading Mode

ACB 724 Micro Anat & Ultrastruct **4 Credit hours**
Grade Mode: Normal Grading Mode

ACB 725 Structural Basis Med Prac **1-18 Credit hours**
This course will consist primarily of laboratory dissection following initial orientation lectures. This will provide experience in human dissection that is currently not available in the prosection-based Gross Anatomy and Embryology course.
Grade Mode: Pass/Fail Grading Mode

ACB 728 Neuroanatomy **4 Credit hours**
Grade Mode: Normal Grading Mode

ACB 780 Elective Special Projects **1 Credit hour**
Grade Mode: Normal Grading Mode

ACB 785 Independent Study **1-15 Credit hours**
Grade Mode: Credit/No Credit Grade Only

ACB 801 Clinical Microanatomy **1-18 Credit hours**
Elective for fourth-year medical students to review medical histology slides of normal tissues.
Grade Mode: Normal Grading Mode

ACB 810 Current Topics Cell Bio **1-18 Credit hours**
Students carry out a guided comprehensive review of the literature on a current research topic. The topic is selected by agreement of the student and the faculty member.
Grade Mode: Normal Grading Mode

ACB 813 Surgical Anatomy **1-18 Credit hours**
Grade Mode: Pass/Fail Grading Mode

ACB 820 Res Cellular Processes **1-18 Credit hours**
Provides the student with an introduction to reseaarch in cellular biology and neurosciences. The educational program is arranged in consultation with an individual faculty member.
Grade Mode: Normal Grading Mode

Anesthesia (ANS)

ANS 800 Anesthesiology **1-18 Credit hours**
You will learn the ability to: obtain pre-operative patient histories including system review, lab tests, and plan of anesthesia; discuss cardiopulmonary evaluations in patients undergoing anesthesia; develop plans for pre-operative, operative and postoperative care and management. You will learn to: describe the pharmacology of the drugs used by anesthesiologists and common techniques in general and regional anesthesia, including but not limited to; standard and invasive anesthesia monitoring; post-operative analgesia regimen; drugs for sedation and analgesia; post-operative PACU standard of care; be familiar with the anatomic and physiologic variable to anesthetic practice; be familiar with perioperative evaluation for patients scheduled for surgery; be familiar with the monitoring devices and pharmacology of anesthesia drugs (sedation and analgesia). *Available to a limited number. Must be arranged at least a month in advance.
Grade Mode: Pass/Fail Grading Mode

ANS 827 Anesthesia Sub-Internship **1-18 Credit hours**
This course will familiarize the student with the anatomic and physiologic variables in anesthetic practice. Will also learn to evaluate patients scheduled for surgery. Students will be introduced to monitoring devices, airway management, and the pharmacology of anesthetic drugs used for general anesthesia and regional anesthesia.
Pre-req: SUR 806.
Grade Mode: Pass/Fail Grading Mode

ANS 858 In-State Externship in Anesthe **1-18 Credit hours**
Clinical course to allow students to complete clinical training at approved sites within the State of West Virginia that is not an MUSOM site.
Grade Mode: Pass/Fail Grading Mode

ANS 868 Out-of-State Extern in Anesthe **1-18 Credit hours**
Clinical course to allow students to complete clinical training at approved sites outside the State of West Virginia that is not an MUSOM site.
Grade Mode: Pass/Fail Grading Mode

Anthropology (ANT)

ANT 511 Deconstructing Appalachia **3 Credit hours**
Exploration of the historical and cultural significance of Appalachia in the American experience and imagination.
Grade Mode: Normal Grading Mode

ANT 512 Appalachian Field Exp I **3 Credit hours**
Supervised fieldwork in an Appalachian community studying the social and cultural characteristics of the area.
Pre-req: ANT 511.
Grade Mode: Normal Grading Mode

ANT 528 Arch Theory and Analysis **3 Credit hours**
An introduction to archaeological theory and its application to the material record of cultures past and present.
Grade Mode: Normal Grading Mode

ANT 540 African Cultures **3 Credit hours**
Comparative analysis of the ethnic groups of Africa using archaeological and ethnographic data.
Grade Mode: Normal Grading Mode

ANT 564 Design Planning & Health **3 Credit hours**
Social scientific study of how places where people live, work, and recreate affect quality of life and overall health with an emphasis on design decisions within urban and regional planning.
Grade Mode: Normal Grading Mode

ANT 565 Disaster, Culture & Health **3 Credit hours**
Study of contemporary environmental and social problems emphasizing health impacts of natural and technological disasters on communities around the world.
Grade Mode: Normal Grading Mode

ANT 566 Culture and Environment **3 Credit hours**
This course will examine the symbolic and structural dimensions of struggles over defining, organizing, and controlling the natural environment from a biocultural perspective.
Grade Mode: Normal Grading Mode

ANT 567 Culture through Ethnography **3 Credit hours**
In depth exploration and comparison of diverse cultural groups through reading and discussing ethnographic texts.
Grade Mode: Normal Grading Mode

ANT 568 National Identity **3 Credit hours**
Exploration of the cultural, political and economic processes that contribute to the creation and maintenance of the modern nation state as an imagined community.
Grade Mode: Normal Grading Mode

ANT 572 Language Gender Body **3 Credit hours**
Uses methods and theories from anthropology, linguistics, and sociology to examine how gendered bodies in different cultures are constructed through ways of acting in the social world.
Grade Mode: Normal Grading Mode

ANT 580 Special Topics **1-4 Credit hours**
Study of topics of interest not covered in regularly scheduled classes.
Grade Mode: Normal Grading Mode

ANT 581 Special Topics **1-4 Credit hours**
Study of topics of interest not covered in regularly scheduled classes.
Grade Mode: Normal Grading Mode

ANT 582 Special Topics **1-4 Credit hours**
Study of topics of interest not covered in regularly scheduled classes.
Grade Mode: Normal Grading Mode

ANT 583 Special Topics **1-4 Credit hours**
Study of topics of interest not covered in regularly scheduled classes.
Grade Mode: Normal Grading Mode

ANT 585 Independent Study **1-4 Credit hours**
Individual study of topics not offered in regularly scheduled classes.
Grade Mode: Normal Grading Mode

ANT 586 Independent Study **1-4 Credit hours**
Individual study of topics not offered in regularly scheduled classes.
Grade Mode: Normal Grading Mode

ANT 587 Independent Study **1-4 Credit hours**
Individual study of topics not offered in regularly scheduled classes.
Grade Mode: Normal Grading Mode

ANT 588 Independent Study **1-4 Credit hours**
Individual study of topics not offered in regularly scheduled classes.
Grade Mode: Normal Grading Mode

ANT 591 Theory in Ethnology **3 Credit hours**
Introduction to major theoretical traditions of cultural anthropology with emphasis on the connection between fieldwork and development of theory.
Grade Mode: Normal Grading Mode

ANT 600 Ethnographic Research **3 Credit hours**
An advanced project-based introduction to ethnographic research design and practice.
Grade Mode: Normal Grading Mode

ANT 609 Professionial Development **3 Credit hours**
Individual study of topics not offered in regularly scheduled classes.
Grade Mode: Normal Grading Mode

ANT 685 Independent Study **1-4 Credit hours**
Individual study of topics not offered in regularly scheduled classes.
Grade Mode: Normal Grading Mode

ANT 686 Independent Study **1-4 Credit hours**
Individual study of topics not offered in regularly scheduled classes.
Grade Mode: Normal Grading Mode

ANT 687 Independent Study **1-4 Credit hours**
individual study of topics not offered in regularly scheduled classes.
Grade Mode: Normal Grading Mode

ANT 688 Independent Study **1-4 Credit hours**
Individual study of topics not offered in regularly scheduled classes.
Grade Mode: Normal Grading Mode

Applied Behavior Analysis (ABA)

ABA 600 Basic Princ of Behavior **3 Credit hours**
The course focuses on the principles and concepts of operant and respondent conditioning. The content prepares students to take the BCBA exam.
Grade Mode: Normal Grading Mode

ABA 610 Theory Phil Behavioral Anyls **3 Credit hours**
This course will provide the student with the underlying theoretical and philosophical foundations of behavior analysis. The content prepares students to take the BCBA exam.
Grade Mode: Normal Grading Mode

ABA 620 Research Meth Beh Analy **3 Credit hours**
Course content includes measurement, data display, and interpretation, single-case designs, and research ethics. The content prepares students to take the BCBA exam.
Grade Mode: Normal Grading Mode

ABA 630 Beh Assess Intervention I **3 Credit hours**
Students will learn to select and implement behavior assessment and intervention strategies. The content prepares students to take the BCBA exam.
Pre-req: ABA 600 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ABA 640 Beh Assess Interv II **3 Credit hours**
This course is a continuation of ABA 630. Students will apply behavioral principles in multiple areas of practice. The content prepares students to take the BCBA exam.
Pre-req: ABA 600 with a minimum grade of C and ABA 630 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ABA 650 Beh Change in Systems **3 Credit hours**
This course focuses on behavior change and collaboration at the system's level. The content prepares students to take the BCBA exam.
Grade Mode: Normal Grading Mode

ABA 660 Ethics in App Beh Analy **3 Credit hours**
A review of ethical principles related to research and practice in Applied Behavior Analysis. The content prepares students to take the BCBA exam.
Grade Mode: Normal Grading Mode

ABA 670 Sup Fieldwork in ABA **3 Credit hours**
Concentrated fieldwork at approved site in accordance with BACB requirements. Students must take 3 credit hours per semester for a total of 9 hours. Requires instructor approval and an application.
Pre-req: ABA 600 with a minimum grade of C.
Attributes: Onsite Learning Experience
Grade Mode: Pass/Fail Grading Mode

ABA 680 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ABA 685 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ABA 690 Research in App Beh Analy **3 Credit hours**
Students will investigate a research problem of theoretical interest and practical value. May only be taken with permission.
Grade Mode: Normal Grading Mode

Applied Music (MUSA)

MUSA 676 Graduate Recital **1 Credit hour**
The culminating recital for graduate-level applied music study in the principal applied area.
Grade Mode: Normal Grading Mode

MUSA 680 Original Composition **2 Credit hours**
Master's level individual studies in composition. May be repeated for credit.
Grade Mode: Normal Grading Mode

MUSA 681 Saxophone **1-2 Credit hours**
Master's level individual studies in saxophone. May be repeated for credit.
Grade Mode: Normal Grading Mode

MUSA 682 Flute **1-2 Credit hours**
Master's level individual studies in flute. May be repeated for credit.
Grade Mode: Normal Grading Mode

MUSA 683 Oboe **1-2 Credit hours**
Master's level individual studies in oboe. May be repeated for credit.
Grade Mode: Normal Grading Mode

MUSA 684 Clarinet **1-2 Credit hours**
Master's level individual studies in clarinet. May be repeated for credit.
Grade Mode: Normal Grading Mode

MUSA 685 Bassoon **1-2 Credit hours**
Master's level individual studies in bassoon. May be repeated for credit.
Grade Mode: Normal Grading Mode

MUSA 686 French Horn **1-2 Credit hours**
Master's level individual studies in French horn. May be repeated for credit.
Grade Mode: Normal Grading Mode

MUSA 687 Trumpet **1-2 Credit hours**
Master's level individual studies in trumpet. May be repeated for credit.
Grade Mode: Normal Grading Mode

MUSA 688 Trombone **1-2 Credit hours**
Master's level individual studies in trombone. May be repeated for credit.
Grade Mode: Normal Grading Mode

MUSA 689 Euphonium **1-2 Credit hours**
Master's level individual studies in euphonium. May be repeated for credit.
Grade Mode: Normal Grading Mode

MUSA 690 Tuba **1-2 Credit hours**
Master's level individual studies in tuba. May be repeated for credit.
Grade Mode: Normal Grading Mode

MUSA 691 Violin **1-2 Credit hours**
Master's level individual studies in violin. May be repeated for credit.
Grade Mode: Normal Grading Mode

MUSA 692 Viola **1-2 Credit hours**
Master's level individual studies in viola. May be repeated for credit.
Grade Mode: Normal Grading Mode

MUSA 693 Cello **1-2 Credit hours**
Master's level individual studies in cello. May be repeated for credit.
Grade Mode: Normal Grading Mode

MUSA 694 String Bass **1-2 Credit hours**
Master's level individual studies in string bass. May be repeated for credit.
Grade Mode: Normal Grading Mode

MUSA 695 Piano **1-2 Credit hours**
Master's level individual studies in piano. May be repeated for credit.
Grade Mode: Normal Grading Mode

MUSA 696 Voice **1-2 Credit hours**
Master's level individual studies in voice. May be repeated for credit.
Grade Mode: Normal Grading Mode

MUSA 697 Organ **1-2 Credit hours**
Master's level individual studies in organ. May be repeated for credit.
Grade Mode: Normal Grading Mode

MUSA 698 Percussion **1-2 Credit hours**
Master's level individual studies in percussion. May be repeated for credit.
Grade Mode: Normal Grading Mode

MUSA 699 Guitar **1-2 Credit hours**
Master's level individual studies in guitar. May be repeated for credit.
Grade Mode: Normal Grading Mode

Art (ART)

ART 504 Iconography of Mary **3 Credit hours**
Traces the sources and evolution of Catholic doctrine and images of the Virgin Mary.
Grade Mode: Normal Grading Mode

ART 508 Art & Arch of Ancient Egypt **3 Credit hours**
History of the visual arts and architecture in ancient Mesopotamia, Egypt, Greece and Rome.
Pre-req: ART 501.
Grade Mode: Normal Grading Mode

ART 509 19th Century Art **3 Credit hours**
A survey of the development of architecture, painting, and sculpture in the western world during the last century.
Pre-req: ART 502.
Grade Mode: Normal Grading Mode

ART 511 Art of Ancient Rome **3 Credit hours**
Explores the art and architecture of ancient Rome in light of social and religious influences.
Grade Mode: Normal Grading Mode

ART 514 Art & Architec Italian Ren **3 Credit hours**
The course discusses the art of the Renaissance in Italy and Northern Europe within the context of social, political, theological and philosophical developments.
Grade Mode: Normal Grading Mode

ART 515 Northern Renaissance Art **3 Credit hours**
Explores the art of Northern Europe during the Renaissance in light of social and religious influences.
Grade Mode: Normal Grading Mode

ART 516 Baroque Art **3 Credit hours**
Analyzes Baroque art and the social milieu that influenced, commissioned, financed, and produced it.
Grade Mode: Normal Grading Mode

ART 519 Spinning Dyeing Tapestry **3 Credit hours**
Basic procedures in hand spinning, dyeing and tapestry weaving.
Grade Mode: Normal Grading Mode

ART 554 Designing for Multimedia **3 Credit hours**
Current topics and techniques in multimedia design. Topics include animation, incorporating digital video and sound, interaction design, information design, Wed-site-design and advanced image processing.
Grade Mode: Normal Grading Mode

ART 560 Hist & Phil of Art Ed **3 Credit hours**
A survey of the evolution of art education and philosophy, and a study of problems related to art education on the elementary and high school level.
Grade Mode: Normal Grading Mode

ART 564 History of Modern Design **3 Credit hours**
History of print and object design from the beginning of the nineteenth through the twentieth century will be studied in terms of art history, technology, politics, economics, and consumer behavior.
Grade Mode: Normal Grading Mode

ART 571 Practicum **3 Credit hours**
To be used for learning activities that involve the application of previously learned processes, theories, systems, or techniques.
Attributes: Onsite Learning Experience
Grade Mode: Normal Grading Mode

ART 572 Practicum **3 Credit hours**
To be used for learning activities that involve the application of previously learned processes, theories, systems or techniques.
Attributes: Onsite Learning Experience
Grade Mode: Normal Grading Mode

ART 573 Practicum **3 Credit hours**
To be used for learning activities that involve the application of previously learned processes, theories, systems or techniques.
Attributes: Onsite Learning Experience
Grade Mode: Normal Grading Mode

ART 580 Special Topics **1-4 Credit hours**
To be used for experimental courses. By permission only.
Grade Mode: Normal Grading Mode

ART 581 Special Topics **1-4 Credit hours**
To be used for experimental courses. By permission only.
Grade Mode: Normal Grading Mode

ART 582 Special Topics **1-4 Credit hours**
To be used for experimental courses. By permission only.
Grade Mode: Normal Grading Mode

ART 583 Special Topics **1-4 Credit hours**
To be used for experimental courses. By permission only.
Grade Mode: Normal Grading Mode

ART 585 Independent Study **1-4 Credit hours**
To be reserved for tutorials, directed and independent research and readings, problem reports, and other activities designed to fit the needs of individual students within the major.
Grade Mode: Normal Grading Mode

ART 586 Independent Study **1-4 Credit hours**
To be reserved for tutorials, directed and independent research and readings, problem reports, and other activities designed to fit the needs of individual students within the major.
Grade Mode: Normal Grading Mode

ART 587 Independent Study **1-4 Credit hours**
To be reserved for tutorials, directed and independent research and readings, problem reports, and other activities designed to fit the needs of individual students with the major.
Grade Mode: Normal Grading Mode

ART 588 Independent Study **1-4 Credit hours**
To be reserved for tutorials, directed and independent research and readings, problem reports, and other activities designed to fit the needs of individual students within the major.
Grade Mode: Normal Grading Mode

ART 601 Adv Prob Art Ed K-12 **3 Credit hours**
For graduate students with limited experience in the arts and crafts wishing to familiarize themselves with methods and materials used in art education.
Grade Mode: Normal Grading Mode

ART 650 Advanced Studio Sequence **3 Credit hours**
The student will select special studies from art education, art history, drawing, painting, sculpture, ceramics, graphics, and other related approved projects.
Grade Mode: Normal Grading Mode

ART 651 Advanced Studio Sequence **3 Credit hours**
The student will select special studies from art education, art history, drawing, painting, sculpture, ceramics, graphics, and other related approved projects.
Grade Mode: Normal Grading Mode

ART 652 Advanced Studio Sequence **3 Credit hours**
The student will select special studies from art education, art history, drawing, painting, sculpture, ceramics, graphics, and other related approved projects.
Grade Mode: Normal Grading Mode

ART 653 Advanced Studio Sequence **3 Credit hours**
The student will select special studies from art education, art history, drawing, painting, sculpture, ceramics, graphics, and other related approved projects.
Grade Mode: Normal Grading Mode

ART 654 Advanced Studio Sequence **3 Credit hours**
The student will select special studies from art education, art history, drawing, painting, sculpture, ceramics, graphics, and other related approved projects.
Grade Mode: Normal Grading Mode

ART 655 Advanced Studio Sequence **3 Credit hours**
The student will select special studies from art education, art history, drawing, painting, sculpture, ceramics, graphics, and other related approved projects.
Grade Mode: Normal Grading Mode

ART 656 Advanced Studio Sequence **3 Credit hours**
The student will select special studies from art education, art history, drawing, painting, sculpture, ceramics, graphics, and other related approved projects.
Grade Mode: Normal Grading Mode

ART 670 Seminar **3 Credit hours**
Discussion and research in selected areas of art.
Grade Mode: Normal Grading Mode

ART 681 Thesis **1-6 Credit hours**
Attributes: Thesis
Grade Mode: Normal Grading Mode

Arts & Society-Humanities (A&S)

A&S 500 Prds/Mvmts Wstrn Art & Music **3 Credit hours**
The course relates major periods, schools, and movements to the culture of the place and time. May be repeated for a maximum of 6 hours.
Grade Mode: Normal Grading Mode

A&S 501 Stdys/Non-Western Art & Music **3 Credit hours**
Studies emphasizing non-Western art or music (e.g., Chinese art; art of the Middle East). May be repeated for a maximum of 6 hours.
Grade Mode: Normal Grading Mode

A&S 510 Comparative Arts **3 Credit hours**
Study of artistic movements and specific stypistic features in art, music and literature. May be repeated for a maximum of 6 hours.
Grade Mode: Normal Grading Mode

A&S 550 Sunrise Internship **3 Credit hours**
A specially designed project under the guidance of specialists at Sunrise Museums (requires special permission from the program dirtector and Sunrise Museums).
Grade Mode: Normal Grading Mode

A&S 560 Film Art & Popular Media **3 Credit hours**
A consideration of films as the successors to earlier popular literature. Relevant aspects of media history and techniques will be examined.
Grade Mode: Normal Grading Mode

A&S 600 Selected Topics in Arts & Soc **1-6 Credit hours**
Selected topics in arts and society. The specific topic will be announced in the schedule of classes. Students may take up to nine hours in selected topics.
Grade Mode: Normal Grading Mode

A&S 620 Selected Topics/Decorative Art **1-6 Credit hours**
Selected topics in history and practices of decorative arts (e.g., interior design, furniture styles, architecture)
Grade Mode: Normal Grading Mode

Biochemistry (BIC)

BIC 580 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

BIC 620 Human Biochemistry **6 Credit hours**
A study of structure and metabolism of biological compounds with special reference to the human.
Grade Mode: Normal Grading Mode

BIC 621 Human BIC Discussion **1 Credit hour**
Co-requisite weekly discussion group for Human Biochemistry. Selected topics from the lecture course will be covered in greater depth.
Co-req: BIC 620
Grade Mode: Credit/No Credit Grade Only

BIC 628 Mol Mech Growth & Diff **2 Credit hours**
Advanced graduate course will acquaint students with the latest information on control of cell growth and differentiation at the molecular level. Lecture and student presentations. A short grant proposal is also required. (PR: BMS 600)
Pre-req: BMS 600.
Grade Mode: Normal Grading Mode

BIC 634 Lipid Biochemistry **2 Credit hours**
Advanced study of lipid structure and metabolism.
Grade Mode: Normal Grading Mode

BIC 636 Enzymology and Proteins **3 Credit hours**
Structure and function of enzymes and proteins, including protemics, purification, assay, kinetics, molecular chaperones, protein degradation, engineering, and current literature concerning enzymes important in the cell cycle and gene regulation. PR: Biochemistry and consent
Grade Mode: Normal Grading Mode

BIC 638 Nucleic Acid Protein Syn **3 Credit hours**
An advanced course in molecular biology and molecular genetics emphasizing current research in these areas.
Pre-req: BIC 620.
Grade Mode: Normal Grading Mode

BIC 643 Molecular Signal Transduction **3 Credit hours**
An advanced exploration of the newest information on cellular signalling pathways. Special emphasis will be place on current literature in following signal transduction from the plasma membrane to the nucleus. (PR: BMS 600 or equivalent)
Grade Mode: Normal Grading Mode

BIC 675 Special Topics **1-4 Credit hours**
Present course material on special areas of research or topics which are not routinely covered in existing courses.
Grade Mode: Normal Grading Mode

BIC 676 Special Topics **1-4 Credit hours**
Present course material on special areas of research or topics which are not routinely covered in existing courses.
Grade Mode: Normal Grading Mode

BIC 677 Special Topics **1-4 Credit hours**
Present course material on special areas of research or topics which are not routinely covered in existing courses.
Grade Mode: Normal Grading Mode

BIC 720 Biochemistry **7 Credit hours**
Grade Mode: Normal Grading Mode

BIC 780 Elective Special Projects **1-18 Credit hours**
Grade Mode: Pass/Fail Grading Mode

BIC 785 Independent Study **1-15 Credit hours**
Grade Mode: Credit/No Credit Grade Only

BIC 820 Biochemistry Research **1-18 Credit hours**
Grade Mode: Pass/Fail Grading Mode

Biological Science (BSC)

BSC 501 Ichthyology **4 Credit hours**
Anatomy, physiology, ecology, zoogeography, economic importance and classification of major groups and representative local species of fishes. 2 lec-2 lab and field.
Grade Mode: Normal Grading Mode

BSC 504 Cellular Physiology **3 Credit hours**
In depth analysis of the physiological and molecular processes that underly the function of cells, using examples from diverse taxa. Focus on biomedical and biotechnological implications.
Grade Mode: Normal Grading Mode

BSC 505 Economic Botany **3 Credit hours**
Plants used by man for food, ornamental purposes, building materials, textiles and other industrial purposes: economic importance of conservation. No laboratory.
Grade Mode: Normal Grading Mode

BSC 508 Ornithology **4 Credit hours**
An introduction to avian biology: Identification, distribution, migration and breeding activities of birds. 2 lec-4 lab.
Grade Mode: Normal Grading Mode

BSC 509 Mammalogy **4 Credit hours**
A study of the structural features, evolution and classification of the mammals; other topics will include ecology, zoogeography, behavior, reproductive strategies, physiological adaptations to extreme environments and economic aspects. 2 lec-2 lab.
Grade Mode: Normal Grading Mode

BSC 510 Remote Sensing/GIS Appl **4 Credit hours**
A study of the physical systems for collecting remotely sensed data. Statistical/spatial analysis and modeling using image processing/geographic information/spatial computer software systems with earth resources applications.
Grade Mode: Normal Grading Mode

BSC 511 Dgtl Image Proc/GIS Model **4 Credit hours**
A study of image processing/geographic information/spatial analysis systems, concurrent and parallel image processing 3-D modeling scenarios utilizing geophysical data for computer simulation modeling.
Grade Mode: Normal Grading Mode

BSC 513 Prin of Organic Evolution **3 Credit hours**
The facts and possible mechanisms underlying the unity and diversity of life with emphasis on Neo-Darwiniam concepts of the role of species in evolutionary phenomena.
Grade Mode: Normal Grading Mode

BSC 516 Plant Taxonomy **4 Credit hours**
Identification and classification of seed plants and ferns of eastern United States. Readings in history and principles of taxonomy, rules of nomenclature and related topics. 2 lec-4 lab.
Grade Mode: Normal Grading Mode

BSC 517 Biostatistics **3 Credit hours**
Statistical skills for biological/biomedical research, with emphasis on applications.Experimental design/survey sampling, estimation/ hypothesis testing procedures, regression, AVONA, multiple comparisons. Implementation using statistical software such as SAS, BMDP.
Grade Mode: Normal Grading Mode

BSC 520 Plant Physiology **4 Credit hours**
Experimental study of plant life processes to include applicable biophysical and biochemical principles. 2 lec-4 lab.
Grade Mode: Normal Grading Mode

BSC 521 Phycology **4 Credit hours**
Taxonomy and morphology of algae. Techniques used in the study of algae with emphasis upon application of ecological principles to current water quality problems. 2 lec-4 lab.
Grade Mode: Normal Grading Mode

BSC 522 Animal Physiology **3 Credit hours**
A comparative study of physiological principles in animal cells, organs, and systems. Focus on animal's reactions to their environment, and how comparative physiology applies to natural ecosystems and human health.
Grade Mode: Normal Grading Mode

BSC 524 Animal Parasitology **4 Credit hours**
Morphology, life histories, classification, and host relationships of common parasites. 2 lec-4 lab.
Grade Mode: Normal Grading Mode

BSC 525 Systematics **3 Credit hours**
Biosystematics is a unifying discipline that combines taxonomy (collecting, describing, and naming organisms), phylogenetics (evolutionary relationships among species), and classification (organization of taxa into groups which ultimately reflect evolutionary relationship.
Grade Mode: Normal Grading Mode

BSC 528 Neuroscience **3 Credit hours**
The fundamentals of cellular and systems neuroscience, with application towards understanding current research and biomedical problems.
Grade Mode: Normal Grading Mode

BSC 530 Plant Ecology **4 Credit hours**
The study of plants and their interactions with their environment at different levels of ecological organization: individuals, populations, communities, and ecosystems. Emphasis on quantitative analysis of ecological data.
Grade Mode: Normal Grading Mode

BSC 531 Limnology **4 Credit hours**
The study of inland waters; ecological factors affecting lake and stream productivity and various aquatic communities. 2 lec-4 lab.
Grade Mode: Normal Grading Mode

BSC 536 Vertebrate Embryology **4 Credit hours**
Vertebrate development based chiefly on frog, chick, pig, mouse and human embryos.
Grade Mode: Normal Grading Mode

BSC 538 Emerging Infectious Diseases **3 Credit hours**
Introduces students to infections diseases that are either newly emergent or have returned to prominence within the last decade.
Grade Mode: Normal Grading Mode

BSC 543 Microbial Genetics **3 Credit hours**
Microbial Genetics covers the essential functions of DNA replication and gene expression in prokaryotic cells. The course includes molecular genetics of bacteria and phages, bioinformatics and discussion of laboratory techniques.
Grade Mode: Normal Grading Mode

BSC 545 Microbial Ecology **3 Credit hours**
This course introduces students to the vital roles that microbes play in sustaining life on earth. Includes both theoretical and practical concepts ranging from the origin of life to biodegradation.
Grade Mode: Normal Grading Mode

BSC 550 Molecular Biology **3 Credit hours**
Advanced principles in molecular function emphasizing current research using recombinant DNA methodology.
Grade Mode: Normal Grading Mode

BSC 551 Molecular Medicine **3 Credit hours**
This course focuses on molecular biology as applied to the causes, diagnosis and treatment of select human and veterinary diseases. Therapies that are new and still in clinical trials will also be covered.
Grade Mode: Normal Grading Mode

BSC 556 Genes and Development **3 Credit hours**
An in depth study of the genetic mechanisms of complex organismal development including cell specification, induction and morphogenesis.
Grade Mode: Normal Grading Mode

BSC 560 Conservation Biology **3 Credit hours**
This course focuses on the North American model of wildlife conservation (and its history), principles of biology diversity, threats to habitats and species of concern, adn conservation policy.
Grade Mode: Normal Grading Mode

BSC 565 Biology of Reptiles **4 Credit hours**
A survey of the reptiles of the world with special emphasis placed on forms resident to West Virginia, including aspects of ecology, physiology, zoogeography, anatomy, taxonomy, and behavior.
Grade Mode: Normal Grading Mode

BSC 566 Biology of Amphibians **4 Credit hours**
A survey of the amphibians of the world with special emphasis placed on forms resident to West Virginia, including aspects of ecology, physiology, zoogeography, anatomy, taxonomy, and behavior.
Grade Mode: Normal Grading Mode

BSC 568 Wildlife Ecol and Mgt **4 Credit hours**
A study of ecological field techniques with emphasis on wildlife management and field ecology. Applications of ecological theory to managing, monitoring and assessing wildlife populations and habitats through experiential learning.
Grade Mode: Normal Grading Mode

BSC 580 Special Topics **1-4 Credit hours**
(PR: Permission)
Grade Mode: Normal Grading Mode

BSC 581 Special Topics **1-4 Credit hours**
(PR: Permission)
Grade Mode: Normal Grading Mode

BSC 582 Special Topics **1-4 Credit hours**
(PR: Permission)
Grade Mode: Normal Grading Mode

BSC 583 Special Topics **1-4 Credit hours**
(PR: Permission)
Grade Mode: Normal Grading Mode

BSC 585 Independent Study **1-4 Credit hours**
(PR: Permission)
Attributes: Onsite Learning Experience
Grade Mode: Credit/No Credit Grade Only

BSC 586 Independent Study **1-4 Credit hours**
(PR: Permission)
Attributes: Onsite Learning Experience
Grade Mode: Credit/No Credit Grade Only

BSC 587 Independent Study **1-4 Credit hours**
(PR: Permission)
Attributes: Onsite Learning Experience
Grade Mode: Credit/No Credit Grade Only

BSC 588 Independent Study **1-4 Credit hours**
(PR: Permission)
Attributes: Onsite Learning Experience
Grade Mode: Credit/No Credit Grade Only

BSC 601 Vertebrate Embryology **4 Credit hours**
Vertebrate development based on frog, chick and pig embryos. 2 lec-4 lab.
Grade Mode: Normal Grading Mode

BSC 608 Plant Growth & Developmnt **4 Credit hours**
Comprehensive advanced study of correlative growth in plants with emphasis on germination, dormancy, growth substances and physiological phenomena associated with phases of development.
Grade Mode: Normal Grading Mode

BSC 610 Adv Vert Morphology **3 Credit hours**
AVM is an intensive, laboratory-based course in vertebrate morphology. Core responsibilities include detailed dissection and comparative cranial osteology. Each student must complete an independent dissection project and term paper.
Grade Mode: Normal Grading Mode

BSC 620 Taxonomy Vascular Plants **1-2 Credit hours**
Field studies in the taxonomy of higher plants. (Limited to 4 hours credit per student).
Co-req: BSC 622
Grade Mode: Normal Grading Mode

BSC 621 Taxonomy Vascular Plants **1-2 Credit hours**
Field studies in the taxonomy of higher plants. (Limited to 4 hours credit per student).
Grade Mode: Normal Grading Mode

BSC 622 Taxonomy Vascular Plants **1-2 Credit hours**
Field studies in the taxonomy of higher plants. (Limited to 4 hours credit per student).
Co-req: BSC 620
Grade Mode: Normal Grading Mode

BSC 625 Advanced Physiology **4 Credit hours**
Lecture, current literature and introduction to research in physiological systems. 3 lec-3 lab.
Grade Mode: Normal Grading Mode

BSC 631 Animal Ecology **4 Credit hours**
A study of population and behavior ecology; community dynamics and field techniques. 2 lec-4 lab.
Grade Mode: Normal Grading Mode

BSC 632 Data Analysis in Bio Sciences **4 Credit hours**
Example-led lectures and practical sessions to build proficiency in analyzing real data in biological sciences using R. Includes data wrangling, visualization, and mapping with emphasis on reproducible research practices.
Grade Mode: Normal Grading Mode

BSC 640 Cellular/Molecular BioMedicine **4 Credit hours**
This course users an integrated lecture/journal club format to familiarize students with advanced techniques and multidisciplinary approaches in biomedical research. Intended for science and biomedical graduate students.
Grade Mode: Normal Grading Mode

BSC 644 Quantitative Ecology **3 Credit hours**
An introduction to statistical analyses using presence absence, mark-recapture, and count data to estimate population parameters, such as occupancy and survival.
Grade Mode: Normal Grading Mode

BSC 648 Landscape Ecology **3 Credit hours**
Landscape ecology is the study of landscapes at multiple scales with a focus on discerning how landscape structure affects ecological processes. Students will learn foundational concepts, methods, and computer applications.
Grade Mode: Normal Grading Mode

BSC 649 Wetland Ecology **3 Credit hours**
Grade Mode: Normal Grading Mode

BSC 650 Special Problems **1-3 Credit hours**
By permission of adviser.
Attributes: Onsite Learning Experience
Grade Mode: Credit/No Credit Grade Only

BSC 651 Special Problems **1-3 Credit hours**
By permission of adviser.
Grade Mode: Credit/No Credit Grade Only

BSC 652 Special Problems **1-3 Credit hours**
By permission of adviser.
Grade Mode: Credit/No Credit Grade Only

BSC 660 Seminar I **2 Credit hours**
Topics relevant to preparation for a career in the life sciences including: literature mining and interpretation, scientific ethics, preparation and delivery of scientific presentations, and career development tools.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

BSC 661 Topics in Biological Sciences **2 Credit hours**
In depth group discussion of current biological issues.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

BSC 662 Seminar II **1 Credit hour**
Oral presentation of individual topics.
Pre-req: BSC 660 with a minimum grade of C.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

BSC 679 Problem Report **1-4 Credit hours**
Preparation and completion of a written report from experimental or field research in biological sciences. (PR: permission)
Attributes: Onsite Learning Experience
Grade Mode: Normal Grading Mode

BSC 680 Special Topics **1-4 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

BSC 681 Thesis **1-9 Credit hours**
By permission of adviser.
Attributes: No Textbook Required, Onsite Learning Experience, Thesis
Grade Mode: Normal Grading Mode

BSC 716 Adv Cell Phys Nurse Anesthesia **2 Credit hours**
Study of structure amd function of human cells, including protein synthesis, metabolism and reproduction. Study of genetic disorders and anesthesia. Study of anti-cancer drugs. Analyze types and rules of various cell membrane receptors on anesthesia process.
Grade Mode: Normal Grading Mode

BSC 717 Adv Ana Phy Path Nurse 1 **3 Credit hours**
Anatomy, Physiology, pathophysiology and anesthetic considerations related to the respiratory and renal systems.
Grade Mode: Normal Grading Mode

BSC 718 Adv Ana Phy Path Nurse 2 **3 Credit hours**
Anatomy, physiology, pathophysiology and anesthetic considerations related to the cardiovascular system.
Grade Mode: Normal Grading Mode

BSC 719 Adv Ana Phy Path Nurse 3 **3 Credit hours**
Anatomy, physiology, pathophysiology and anesthetic considerations related to the nervous and endocrine systems.
Grade Mode: Normal Grading Mode

Biomedical Research (BMR)

BMR 601 Intro DNA, RNA & Proteins **3 Credit hours**
A molecular and cell biological study of the structure and function of nucleic acids and proteins.
Grade Mode: Normal Grading Mode

BMR 602 Intro Cells and Metabolism **3 Credit hours**
A molecular and cell biological study of the structure of cells and of cellular metabolism.
Grade Mode: Normal Grading Mode

BMR 603 Regulation Cell Function **2 Credit hours**
An advanced molecular and cell biological study of cell metabolism and the regulation of cell function.
Grade Mode: Normal Grading Mode

BMR 604 Cell Basis of Disease **1 Credit hour**
A molecular and cell biological study of the basis of diseases prevalent in Appalachia
Grade Mode: Normal Grading Mode

BMR 617 BMR Statistics Technique **3 Credit hours**
An application-oriented course in statistical concepts and techniques aimed at prospective researchers in the biomedical sciences.
Grade Mode: Normal Grading Mode

BMR 628 Neuroscience I **3 Credit hours**
To study and understand the structure and function of the nervous system and disorders of neuronal function.
Pre-req: BMR 600 with a minimum grade of C.
Grade Mode: Normal Grading Mode

BMR 629 Neuroscience II **3 Credit hours**
To study and understand the structure and function of the nervous system and disorders of neuronal function.
Pre-req: BMR 628.
Grade Mode: Normal Grading Mode

BMR 631 Neurosci/DevBio Lit Review **1 Credit hour**
Published articles in the neuroscience literature will be presented by all class members. Each presentation will include background introduction methods, results, and discussion of the neuroscience research.
Grade Mode: Credit/No Credit Grade Only

BMR 641 Molecular Development **3 Credit hours**
An in-depth discussion of current literature in developmental biology with emphasis on early embryo development, morphogenesis, lineage determination and regulation of of developmental process.
Pre-req: BIC 628.
Grade Mode: Normal Grading Mode

BMR 644 Research Conduct **1 Credit hour**
Responsible conduct of research, including human subjects, live vertebrate animals, conflict of interest, mentor.mentee responsibilities, collaborative research, peer review, data management, research misconduct, and responsible authorship, with case discussions.
Grade Mode: Credit/No Credit Grade Only

BMR 650 Neurobiology DA I **3 Credit hours**
This graduate level course is designed to give senior undergraduates and graduate students an introduction to the pharmacological, cellular, and molecular components of drug addiction. Topics that will be discussed include: dependence on, tolerance to, and relapse for a range of drugs including opiates, psychostimulants, alcohol, cannabinoids, and nicotine.
Pre-req: BMR 628 (may be taken concurrently) with a minimum grade of C.
Concurrent PR: BMR 628
Grade Mode: Normal Grading Mode

BMR 651 Cancer Biology **4 Credit hours**
An advanced graduate course on the core principles of initiation, progression, treatment and prevention of cancer, based on current literature. (PR: BMR 601, 602, 603, 604, and permission of instructor).
Pre-req: BMR 601 and BMR 602 and BMR 603 and BMR 604.
Grade Mode: Normal Grading Mode

BMR 652 Cancer Biol Colloquium **1 Credit hour**
This is a mentored journal club for graduate students covering selected areas of current interest in cancer biology research.
Grade Mode: Credit/No Credit Grade Only

BMR 660 Communication Bio Sci I **1 Credit hour**
Biomedical graduate students are trained to plan, prepare and deliver effective scientific presentations.
Grade Mode: Credit/No Credit Grade Only

BMR 661 Communication Bio Sci II **1 Credit hour**
Biomedical graduate students are trained to plan, prepare and deliver effective scientific presentations.
Grade Mode: Credit/No Credit Grade Only

BMR 664 ORDRC Colloquim **1 Credit hour**
A seminar course where published articles in the field of obesity and obesity-related diseases are presented and discussed.
Grade Mode: Credit/No Credit Grade Only

BMR 665 CDRC Colloquium **1 Credit hour**
A seminar-style series that will focus on recent advances in topics related to cardiovascular disease.
Grade Mode: Credit/No Credit Grade Only

BMR 674 Teaching Practicum **1 Credit hour**
Students gain experience in teaching using a variety of methods in a supervised setting.
Grade Mode: Credit/No Credit Grade Only

BMR 676 CBR Journal Club **1 Credit hour**
Mentored journal club preparation with monthly presentation in cellular and molecular biology research.
Grade Mode: Normal Grading Mode

BMR 679 Special Problems **1 Credit hour**
Intensive study of a selected topic or problem. Emphasizes independent study.
Grade Mode: Credit/No Credit Grade Only

BMR 680 Seminar **1 Credit hour**
Study and discussion of current topics related to the Biomedical Sciences.
Grade Mode: Credit/No Credit Grade Only

BMR 681 Thesis **1-6 Credit hours**
Grade Mode: Credit/No Credit Grade Only

BMR 785 Intro to Research **1-6 Credit hours**
Directed research activities requiring a completed prospectus for an advanced research project, a written report, or a research thesis. A minimum of three (3) hours required for all M.S. candidates.
Grade Mode: Credit/No Credit Grade Only

BMR 882 Research **1-15 Credit hours**
Grade Mode: Credit/No Credit Grade Only

Biomedical Science (BMS)

BMS 600 Biochem Cell and Molec Found **7 Credit hours**
A study of the molecular biology of the cell and its organelles, cell interactions and evolution.
Grade Mode: Normal Grading Mode

BMS 605 Micro Pharm Med Sciences **5 Credit hours**
This is an integrated introduction to human disease and treatment based on core concepts in microbiology, immunology, and pharmacology, preparing students for detailed studies in subsequent courses.
Grade Mode: Normal Grading Mode

BMS 607 Hematology & Oncology **3 Credit hours**
This course will help students develop a foundational knowledge of the fundamental concepts of hematology, oncology and embryology so they can apply these concepts to body systems.
Grade Mode: Normal Grading Mode

BMS 609 Ortho and Neural Network **6 Credit hours**
This courses will enable students to integrate the foundational and clinical concepts important to understand the disease of the musculoskeletal and nervous systems.
Grade Mode: Normal Grading Mode

BMS 612 Gastroenterol & Nutrition **3 Credit hours**
This course will use the disciplines of physiology, microbiology, pathology, and pharmacology to help students master the fundamental concepts necessary to understand the normal and diseased gastrointestinal system.
Grade Mode: Normal Grading Mode

BMS 615 Cardio Pulmonary Renal **6 Credit hours**
This course will help students master the foundational concepts and clinical correlations for diseases of three of the five vital organs, i.e., cardiovascular, renal and the respiratory systems.
Grade Mode: Normal Grading Mode

BMS 618 Endocrine & Reproductive **3 Credit hours**
This course will help students master the foundational concepts and clinical correlations for diseases of the endocrine and reproductive systems.
Grade Mode: Normal Grading Mode

BMS 620 Multisystem Disorders **2 Credit hours**
This course will bring together the concepts taught in earlier courses to address disorders of multiple organ systems.
Grade Mode: Normal Grading Mode

BMS 634 Biostat Epidem Med Sci **2 Credit hours**
This course will give students a thorough understanding of basic epidemiology and study design and the biostatistics used the medical research.
Grade Mode: Normal Grading Mode

BMS 813 Research in Biomed Sciences **1-18 Credit hours**
The goal of this course is to provide Year 4 medical students with an opportunity to conduct research in biomedical sciences under the mentorship of a basic science faculty member and to learn methods of research.
Grade Mode: Pass/Fail Grading Mode

Cardiovascular Services (CVS)

CVS 800 Essentials of EKG **1-18 Credit hours**
Grade Mode: Pass/Fail Grading Mode

CVS 801 Clinical Cardiology **1-18 Credit hours**
Grade Mode: Pass/Fail Grading Mode

CVS 816 Cardiovascular Research **4-6 Credit hours**
Grade Mode: Pass/Fail Grading Mode

Chemistry (CHM)

CHM 511 Modern Instrument Methods **4 Credit hours**
This course investigates the theory and functional aspects of modern analytical instrumentation. Emphasis is placed on the components of instruments and the applicability of various techniques to specific analytical problems.
Pre-req: CHM 307 with a minimum grade of C or CHM 357 with a minimum grade of C.
Grade Mode: Normal Grading Mode

CHM 525 Brownie, Beer, Bacon Chemistry **3 Credit hours**
The application of biochemistry and physical chemistry to foods and fermented beverages. Kitchen activities and tastings are employed to demonstrate chemical principles.
Grade Mode: Normal Grading Mode

CHM 540 Thermodynamics **3 Credit hours**
An introduction to chemical thermodynamics and statistical mechanics. 3 lec.
Grade Mode: Normal Grading Mode

CHM 542 Quantum Mechanics **3 Credit hours**
An introductory course in quantum mechanics. 3 lec.
Grade Mode: Normal Grading Mode

CHM 548 Adv Inorganic Chemistry I **4 Credit hours**
Study of physical and chemical properties and periodic relationships of inorganic materials. 3 lec, 2 lab (PR: CHM 356, CHM 307, or CHM 357)
Grade Mode: Normal Grading Mode

CHM 549 Adv Inorganic Chem II **3 Credit hours**
A detailed consideration of bonding, structure, reaction rates and equilibrium involving inorganic materials. 3 lec.
Grade Mode: Normal Grading Mode

CHM 551 Biological Mass Spectrometry **4 Credit hours**
This course investigates the theory and applications of mass spectrometry. It includes a laboratory component in which you will learn to run the mass spectrometers and interpret mass spectral results.
Grade Mode: Normal Grading Mode

CHM 565 Adv Organic Chemistry I **3 Credit hours**
Studies of the dynamics of organic reactions with emphasis on mechanisms and stereo chemistry. 3 lec.
Grade Mode: Normal Grading Mode

CHM 566 Adv Organic Chemistry II **3 Credit hours**
A continuation of Chemistry 565 with emphasis on synthetic methods. 3 lec.
Pre-req: CHM 565.
Grade Mode: Normal Grading Mode

CHM 567 Intermediate Biochemistry **3 Credit hours**
A survey course including introduction to basic biochemical concepts, bioenergetics, and information transfer.
Pre-req: CHM 365 with a minimum grade of C or BSC 365 with a minimum grade of C.
Grade Mode: Normal Grading Mode

CHM 574 Introductory Biochemistry **3 Credit hours**
A survey course including introduction to basic biochemical concepts, metabolic pathways, and bioenergetics.
Grade Mode: Normal Grading Mode

CHM 580 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CHM 581 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CHM 582 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CHM 583 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CHM 585 Independent Study **1-4 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

CHM 586 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CHM 587 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CHM 588 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CHM 604 Theories Analytical Chem **2 Credit hours**
Offered on demand.
Pre-req: CHM 556.
Grade Mode: Normal Grading Mode

CHM 607 Theoretical Organic Chem **2 Credit hours**
The application of quantitative methods to problems in structure and dynamics. 2 lec.
Pre-req: CHM 565.
Grade Mode: Normal Grading Mode

CHM 618 Kinetics **3 Credit hours**
An advanced study of reaction rates and mechanisms.
Grade Mode: Normal Grading Mode

CHM 628 Special Topics-Inorganic **1-3 Credit hours**
Offered on demand.
Grade Mode: Normal Grading Mode

CHM 629 Special Topics-Organic **1-3 Credit hours**
Offered on demand.
Grade Mode: Normal Grading Mode

CHM 630 Special Topics-Physical **1-3 Credit hours**
Offered on demand.
Grade Mode: Normal Grading Mode

CHM 631 Seminar **1 Credit hour**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

CHM 632 Seminar **1 Credit hour**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

CHM 678 Applied Micr in Research **4 Credit hours**
A combined lecture/lab/self-motivated research course that results in a microscopy based project to be presented by each student at an open forum (can augment thesis project).
Grade Mode: Normal Grading Mode

CHM 679 Problem Report **3 Credit hours**
Preparation of a comprehensive written report on a topic in Chemistry of current importance. Registration only by permission of Department.
Grade Mode: Normal Grading Mode

CHM 682 Research **1-12 Credit hours**
Credit in the course is earned by pursuing a directed original investigation in a field of chemistry. Twelve semester hours credit in research are applied toward the M.S. degree. Students may sign for one or more credit hurs per semester depending upon the time to be spent on research. A grade of PR may be reported at the close of each term or semester.
Attributes: Onsite Learning Experience, Thesis
Grade Mode: Normal Grading Mode

CHM 685 Independent Study **1-4 Credit hours**
Individual study of topics not offered in regularly scheduled classes.
Grade Mode: Normal Grading Mode

CHM 686 Independent Study **1-4 Credit hours**
Individual study of topics not offered in regularly scheduled classes.
Grade Mode: Normal Grading Mode

CHM 687 Independent Study **1-4 Credit hours**
Individual study of topics not offered in regularly scheduled classes.
Grade Mode: Normal Grading Mode

CHM 688 Independent Study **1-4 Credit hours**
Individual studt of topics not offered in regularly scheduled classes.
Grade Mode: Normal Grading Mode

CHM 723 Chemistry and Physics **3 Credit hours**
Scientific prinicples and clinical application of properties of matter, gas laws, vaporization, fluid dynamics, explosion hazards, electrical safety, acid-base balance, blood gas analysis, biochemistry in anesthesia, mechanisms of narcosis. Analyze the molecular basis for molecular bonding, stereochemistry, protein confirmation, enzyme-substrate reactions.
Grade Mode: Normal Grading Mode

Civil Engineering (CE)

CE 534 Geometric Highway Design **3 Credit hours**
Highway planning and design, including the capacity, horizontal alignment, vertical alignment, roadside design, traffic control, and other related aspects. Types of facilities discussed will include roadways, sidewalks, intersections, and interchanges.
Grade Mode: Normal Grading Mode

CE 538 Pavement Design **3 Credit hours**
Design of highway pavement systems, subgrades, subbases and bases, soil stabilization, flexible and rigid pavements; cost analysis and pavement selection; traffic data collection; drainage; earthwork; pavement evaluation and maintenance.
Grade Mode: Normal Grading Mode

CE 580 Special Topics **3 Credit hours**
Formal study of civil engineering topics of current interest.
Grade Mode: Normal Grading Mode

CE 612 Advanced Steel Design **3 Credit hours**
Background of AISC 360, emphasizing building applications. Analysis method for second-order effects. Composite member design. Plate girders. Splices and bracing connections. Eccentric connections. Wind and seismic applications.
Grade Mode: Normal Grading Mode

CE 614 Advanced Concrete Design **3 Credit hours**
Background of ACI 318, emphasizing building applications. Precast elements. Moment frames and shear walls. Continuous construction. Foundations and earth-retaining structures. Two-way slab design methods. Strut-and-tie analogies. Column supported slabs.
Grade Mode: Normal Grading Mode

CE 616 Prestressed Concrete Design **3 Credit hours**
Behavior and design of prestressed concrete beams, columns, and beam-columns, emphasizing highway bridge applications. Methods of prestressing and loss estimation for precast and cast-in-place elements.
Grade Mode: Normal Grading Mode

CE 618 Bridge Engineering **3 Credit hours**
Analysis, design, and rating of bridges according to AASHTO specifications, emphasizing steel superstructures. Detailing of elements and systems based on strength, serviceability, constructability, and fatigue requirements.
Pre-req: CE 616.
Grade Mode: Normal Grading Mode

CE 634 Traffic Engineering **3 Credit hours**
Design and application of signs, markings, and signals;timing of isolated and interconnected signals; speed regulation; one-way streets; capacity and analysis of highway facilities.
Grade Mode: Normal Grading Mode

CE 635 Eval of Transportation Systems **3 Credit hours**
Concepts of transportation economic analysis, transportation costs and benefits, needs studies, finance and taxation, methods of evaluation of plans and projects, environmental impact assessment.
Grade Mode: Normal Grading Mode

CE 636 Transportation Planning **3 Credit hours**
Techniques used to plan urban transportation systems; data collection, trip generation, trip distribution, mode choice, traffic assignment, modeling and evaluation techniques; travel demand modeling.
Grade Mode: Normal Grading Mode

CE 637 Highway Safety Engineering **3 Credit hours**
Traffic safety studies including: crash analysis, control and geometry improvements, hazard and countermeasures identification, before-and-after studies; data collection and computer tools for highway traffic and safety evaluation.
Grade Mode: Normal Grading Mode

CE 639 Infrastructure Management **3 Credit hours**
Application of decision analysis, mathematical programming, performance modeling and various heuristics to develop management plans for transportation infrastructure assets, primarily focusing on highway pavements and bridges.
Grade Mode: Normal Grading Mode

CE 650 Special Topics Civil Engr **3 Credit hours**
Selected topics of special and current interest to civil engineers.
Grade Mode: Normal Grading Mode

Classics (CL)

CL 536 Roman Civilization **3 Credit hours**
Study of ancient Roman culture, emphasizing parallels with present-day issues.
Grade Mode: Normal Grading Mode

CL 580 Special Topics **1-4 Credit hours**
PR: Consent of the instructor.
Grade Mode: Normal Grading Mode

CL 581 Special Topics **1-4 Credit hours**
PR: Consent of the instructor.
Grade Mode: Normal Grading Mode

CL 582 Special Topics **1-4 Credit hours**
PR: Consent of the instructor.
Grade Mode: Normal Grading Mode

CL 583 Special Topics **1-4 Credit hours**
PR: Consent of the instructor.
Grade Mode: Normal Grading Mode

CL 585 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CL 586 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CL 587 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CL 588 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CL 599 Humanities Seminar **3 Credit hours**
Grade Mode: Normal Grading Mode

CL 620 Theory: Ancient Literature **3 Credit hours**
A close study of ancient and modern literary approaches to and theories about ancient literature with emphasis on genre and cultural contexts.
Grade Mode: Normal Grading Mode

Clinical Translational Science (CTS)

CTS 600 Epi Used in Med Research **3 Credit hours**
Practical application of epidemiology and biostatistics used in medical research. The course will primarily focus on the design and analysis of translational studies.
Grade Mode: Normal Grading Mode

CTS 604 Diet Gut Health **1 Credit hour**
Class will examine the role of gut microbiota and diet in maintaining human health.
Grade Mode: Normal Grading Mode

CTS 610 Study Design & Stats **3 Credit hours**
Students will participate in an internship with faculty in providing consultation services in study design and statistics for medical research projects.
Grade Mode: Normal Grading Mode

CTS 611 Machine Learn Journal Club **1 Credit hour**
Articles that describe either clinical or translational research along with machine learning techniques will be discussed. Students are expected to read, describe and present at these fourteen, 1 hour weekly sessions.
Grade Mode: Credit/No Credit Grade Only

CTS 612 Intro Clin Machine Learn **3 Credit hours**
This course is designed for those who are interested in suing machine learning with a focus on translational medical research, which is concerned with bringing bioscience research discoveries into patient care. This course explores the characteristic of its methods, its benefits and limitations. Explain and describe different learning algorithm machine learning journal club is optional.
Grade Mode: Normal Grading Mode

CTS 614 Intro to Clinical Informatics **3 Credit hours**
This course will introduce Redcap, explore relational DB terms, I2B2, a research data warehouse counting tool, and data manipulation using MS SQL queries, functions, procedures along with C# using LINQ.
Grade Mode: Normal Grading Mode

CTS 615 Intro Clinical Databases **3 Credit hours**
This course is an introduction to the concepts of database processing and management especially as it relates to clinical translational research. The focus is to bring bioscience research discoveries into patient care. Primary topics include discussions of major database types, history of databases and database issues, security, database principles, DBMS, RDBMS, SQL queries, Big Data, Marshall Clinical Data Warehouse.
Grade Mode: Normal Grading Mode

CTS 616 Intro Clinical Program C# **3 Credit hours**
Course will present C#, a tool that can be used to manipulate data within the Clinical database using LINQ/other to connect the application to the database. The focus is on translational research, which is concerned with bringing bioscience research discoveries into patient care. This course is designed for those who are interested in medical research programming using console/web/smart-phone application technology.
Grade Mode: Normal Grading Mode

CTS 620 Basic Research Operations **3 Credit hours**
This course will focus on the operation of clinical research trials, providing an overview of the critical aspects involved in all stages of clinical trials.
Grade Mode: Normal Grading Mode

CTS 625 Clinical Operations Lab **1-6 Credit hours**
This course is a hands on experience in Clinical Research trial operation. The course provides an opportunity for students to work with clinical research professionals on FDA-directed clinical trials.
Pre-req: CTS 620.
Grade Mode: Credit/No Credit Grade Only

CTS 628 Intro to Java Cln Prog **4 Credit hours**
The goal of this course is to expose clinical informatics students to programming in Java for common problem solving tasks. This course will focus on topics related to object-oriented programming with emphasis on object oriented design and style, classes, recursion, searching and sorting, simple data structures, and graphical user interfaces.
Grade Mode: Normal Grading Mode

CTS 630 Fundamentals of Team Science **2 Credit hours**
This course offers practical guidance about how best to engage in team science to pursue complex science questions and work effectively with team members.
Grade Mode: Normal Grading Mode

CTS 632 Qualitative Research **1 Credit hour**
This course is designed as an introduction to qualitative research methods. It offers various approaches to designing and conducting qualitative research projects in health and health services research. Students will gain hands-on experience in various qualitative methods adn analysis techniques while carrying out a research project related to their area of interest.
Grade Mode: Credit/No Credit Grade Only

CTS 635 Writing and Peer Review **1 Credit hour**
This course teaches students to become more effective writers of scientific publications.
Grade Mode: Credit/No Credit Grade Only

CTS 637 Introduction to Tableau **3 Credit hours**
Tableau is a business/clinical intelligence tool that makes it easier to process an ever-increasing stream of clinical information through data visualization, data discovery, visual analytics, dashboards, and visual storytelling. In this course, students will learn the fundamentals of creating interactive visual displays using an industry standard visualization tool using real medical data.
Grade Mode: Normal Grading Mode

CTS 640 Clinical Trials Journal Club **1 Credit hour**
This course will be presentations and discussions of the recent literature in the area of clinical trials. Fundamental principles and new discoveries will be emphasized.
Grade Mode: Credit/No Credit Grade Only

CTS 645 Navigating Health IT **3 Credit hours**
The quality of healthcare data is critical to clinical & translational research and medical practice. Getting the right data is difficult without a basic understanding of health information systems (HIS) and medical classification standards. This course provides an overview of these HIS and standards in the healthcare industry and enables gathering and use of HIS data effectively.
Grade Mode: Normal Grading Mode

CTS 650 Rural Clinical Experience **5 Credit hours**
This course will acquaint students with the issues of rural community health and wellness, which will allow them to participate in clinical studies in a rural environment.
Pre-req: CTS 620.
Grade Mode: Credit/No Credit Grade Only

CTS 660 Appalachian Phenotype **3 Credit hours**
The course will describe the clinical presentations, epidemiology and molecular phenotype of disorders common in the Appalachian region.
Grade Mode: Normal Grading Mode

Communication Disorders (CD)

CD 515 Professional Literacies SLP **3 Credit hours**
Investigation into contemporary understandings of literacy using current communication and information technologies and resources.
Grade Mode: Normal Grading Mode

CD 563 Aural Rehabilitation **3 Credit hours**
Examination of various intervention strategies appropriate for individuals with hearing impairments; techniques for assessing degree of handicap.
Grade Mode: Normal Grading Mode

CD 570 Clinical Practicum I **1-3 Credit hours**
Supervised clinical practicum in the Marshall University Speech and Hearing Center or other site with a faculty member from Marshall University Dept. of Communication Disorders. (Permission of the Instructor).
Pre-req: CD 570L (may be taken concurrently) with a minimum grade of C.
Concurrent PR: CD 570L
Grade Mode: Normal Grading Mode

CD 570L Intro Clinical Principles **1 Credit hour**
This seminar will present the basic clinical principles and procedures including but not limited to professional communication, documentation, evidence-based practice, HIPAA compliance and safety issues within the MUSHC.
Co-req: CD 570
Grade Mode: Credit/No Credit Grade Only

CD 571 Clinical Practicum II **1-3 Credit hours**
Supervised clinical practicum in the Marshall University Speech and Hearing Center or other site with a faculty member from Marshall University Dept. of Communication Disorders. (Pre-requisite CD 570; Permission of the Instructor).
Pre-req: CD 570 with a minimum grade of C and CD 571L (may be taken concurrently) with a minimum grade of C.
Concurrent PR: CD 571L
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

CD 571L Clin Prin of Assessment **1 Credit hour**
This lab/seminar corresponds with CD 571 and will present the basic clinical principles and procedures related to the evaluation process of individuals with communication and swallowing disorders.
Pre-req: CD 570L with a minimum grade of C.
Co-req: CD 571
Attributes: No Textbook Required
Grade Mode: Credit/No Credit Grade Only

CD 580 Special Topics **1-4 Credit hours**
PR: Permission of chair.
Grade Mode: Normal Grading Mode

CD 581 Special Topics **1-4 Credit hours**
PR: Permission of chair.
Grade Mode: Normal Grading Mode

CD 582 Special Topics **1-4 Credit hours**
PR: Permission of chair.
Grade Mode: Normal Grading Mode

CD 583 Special Topics **1-4 Credit hours**
PR: Permission of chair.
Grade Mode: Normal Grading Mode

CD 585 Independent Study **1-4 Credit hours**
PR: Permission of chair.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

CD 586 Independent Study **1-4 Credit hours**
PR: Permission of chair.
Grade Mode: Normal Grading Mode

CD 587 Independent Study **1-4 Credit hours**
PR: Permission of chair
Grade Mode: Normal Grading Mode

CD 588 Independent Study **1-4 Credit hours**
PR: Permission of chair
Grade Mode: Normal Grading Mode

CD 601 Intro to Graduate Studies **3 Credit hours**
An introduction to graduate sstudies, including clinical and research application; quantitative and qualitative research methodology; critical analysis of clinical instrument and research literature.
Grade Mode: Normal Grading Mode

CD 602 Counseling in CSD **2 Credit hours**
This course provides a foundation for speech-language pathologists to counsel individuals with communication and swallowing disorders. Emphasis is on therapeutic relationships, concepts of self/identity, and issues of diversity and access.
Grade Mode: Normal Grading Mode

CD 620 CD: Cleft Palate & Voice **3 Credit hours**
Intensive study of the anatomy and physiology of laryngeal and maxillofacial structures; voice production and resonance; nature and etiology of voice and resonance disorders; principles of assessment and treatment.
Grade Mode: Normal Grading Mode

CD 622 Phonological Disorders **3 Credit hours**
Advanced study of the phonological component of the linguistic system. Emphasis on phonological disorders in children; social dialects; critical analysis of literature.
Grade Mode: Normal Grading Mode

CD 623 Fluency Disorders **3 Credit hours**
Detailed evaluation of theories of fluency disorders and relevant therapies; critical analyses of research literature.
Grade Mode: Normal Grading Mode

CD 624 Foundations Neuro Comm Dis **3 Credit hours**
Study of the neurological bases of speech; etiologies and symptoms of dysarthrias and apraxias; principles of assessment and treatment.
Grade Mode: Normal Grading Mode

CD 625 Acquired Aphasia **3 Credit hours**
Advanced study of the acquired aphasias and commonly co-occuring motor speech disorders; critical analysis of research literature. (PR: Permission of instructor)
Grade Mode: Normal Grading Mode

CD 628 Child Lang Dis: Inf/Presch **3 Credit hours**
Advanced study of the development of language; language sampling procedures, analysis and application.
Grade Mode: Normal Grading Mode

CD 629 Chld Lang Dis: Sch/Adoles **3 Credit hours**
Advanced study of current topics in language disorders in children; critical analysis of research literature.
Grade Mode: Normal Grading Mode

CD 630 Cognitive Comm Disorders **3 Credit hours**
Intensive study of the nature and etiology of communication disorders associated with traumatic brain injury, right hemisphere lesions, dementia, and other neuropathologies; diagnosis and treatment; critical analysis of research literature.[PR: Permission of instructor]
Grade Mode: Normal Grading Mode

CD 650 Special Topics **1-4 Credit hours**
Program of study not normally covered in other courses. Topics vary from semester to semester.
Grade Mode: Credit/No Credit Grade Only

CD 651 Special Topics **1-4 Credit hours**
Program of study not normally covered in other courses. Topics vary from semester to semester.
Grade Mode: Credit/No Credit Grade Only

CD 652 Special Topics **1-4 Credit hours**
Program of study not normally covered in other courses. Topics vary from semester to semester.
Grade Mode: Credit/No Credit Grade Only

CD 653 Special Topics **1-4 Credit hours**
Program of study not normally covered in other courses. Topics vary from semester to semester.
Grade Mode: Credit/No Credit Grade Only

CD 660 Augment Alternative Comm **2 Credit hours**
Comprehensive overview of theoretical and practical issues related to use of augmentative and alternative communication (AAC) systems; assessment and intervention strategies for children and adults who use AAC. (permission by instructor)
Grade Mode: Normal Grading Mode

CD 670 Advanced Clinical Practicum I **1-6 Credit hours**
Supervised clinical practicum in the Marshall University Speech and Hearing Center and in affiliated educational, rehabilitation and medical settings with corresponding professional responsibilities. (PR: CD 571 or permission of instructor)
Pre-req: CD 570 with a minimum grade of C.
Co-req: CD 670L
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

CD 670L Clin ISS In Health Care **1 Credit hour**
This seminar will present principles related to clinical services in speech-language pathology in a variety of health care settings.
Pre-req: CD 571L with a minimum grade of C.
Co-req: CD 670
Attributes: No Textbook Required
Grade Mode: Credit/No Credit Grade Only

CD 674 Clin Pract in the Schools **1 Credit hour**
This course is a supervised clinical practicum with school-aged children; fulfills student teaching requirements for West Virginia Certification as a Speech Language Pathologist. (PR: Permission of instructor)
Pre-req: CD 571 with a minimum grade of C.
Co-req: CD 674L
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

CD 674L Consideration in Public School **1 Credit hour**
This lab/seminar will persent special considerations related to providing services in speech-language pathology in the public school setting.
Pre-req: CD 571L with a minimum grade of C.
Co-req: CD 674
Attributes: No Textbook Required
Grade Mode: Credit/No Credit Grade Only

CD 675 Advanced Clin Pract II **1 Credit hour**
This is the graduate clinical capstone experience which includes a supervised clinical practicum in the MUSHC and affiliated education, rehabilitation and medical settings. (PR: CD 670: Advanced Clinical Practicum I)
Pre-req: CD 674.
Co-req: CD 675L
Grade Mode: Normal Grading Mode

CD 675L Prof Considerations **1 Credit hour**
This lab corresponds with CD 675, the graduate clinical capstone and will provide a forum for students to solidify knowledge and skills for professional practice. (co-requistie to CD 675: Advanced Clinical Practicum II)
Pre-req: CD 674.
Co-req: CD 675
Grade Mode: Normal Grading Mode

CD 681 Thesis **1-6 Credit hours**
PR: Permission of chair.
Attributes: Thesis
Grade Mode: Normal Grading Mode

CD 685 Independent Study **1-4 Credit hours**
PR: Permission of chair.
Grade Mode: Normal Grading Mode

CD 686 Independent Study **1-4 Credit hours**
PR: Permission of chair.
Grade Mode: Normal Grading Mode

CD 687 Independent Study **1-4 Credit hours**
PR: Permission of chair.
Grade Mode: Normal Grading Mode

CD 688 Independent Study **1-4 Credit hours**
PR: Permission of chair.
Grade Mode: Normal Grading Mode

CD 690 Seminar **1-4 Credit hours**
Topics in Communication Disorders not covered in other courses; topics vary from semester to semester. (PR: Permission of Chair)
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

CD 691 Dysphagia & Assoc Motor Sp Dis **3 Credit hours**
The study of normal and disordered swallowing in adults including assessment, treatment and differential diagnosis of dysphagia and associated motor speech disorders; critical analysis of the literature. (PR: CD 624 or permission of the instructor)
Grade Mode: Normal Grading Mode

CD 692 Ped Feeding & Swallowing Dis **2 Credit hours**
Discussion of prevention, assessment, and treatment of feeding and swallowing disorders from birth to school-age children including medical, nutritional, feeding skill, and/or psychosocial dysfunction. (PR: CD 691)
Grade Mode: Normal Grading Mode

CD 693 Seminar **1-4 Credit hours**
Topics in Communication Disorders not covered in other courses; topics vary from semester to semester. (PR: Permission of Chair)
Grade Mode: Normal Grading Mode

Communication Studies (CMM)

CMM 501 Organizational Communication **3 Credit hours**
Study of communication processes in business and professional settings and how applying organizational communication theory and research can address the current issues and problems that organizations experience
Grade Mode: Normal Grading Mode

CMM 506 Interviewing **3 Credit hours**
Skill development in the question-answer-response process as it applies to a variety of interiewing situations.
Grade Mode: Normal Grading Mode

CMM 508 Leadership Comm and Ethics **3 Credit hours**
Study of the role of communication leaders in fostering ethical communication climates in personal, professional, and civic contexts through effective and inclusive decision-making, problem-solving, and interpersonal or group interactions.
Grade Mode: Normal Grading Mode

CMM 509 Theory Persuasion Change **3 Credit hours**
Study of the relationship between persuasion and social change, including theories of attitude and behavioral change and contemporary theories of persuasion.
Grade Mode: Normal Grading Mode

CMM 556 Communication and Technology **3 Credit hours**
Study of the characteristics and functionality of new and emerging communication technologies. Students will apply theory and research to understand communication technology's effects on the self, others, and society.
Grade Mode: Normal Grading Mode

CMM 576 Comm Skills for Teachers **3 Credit hours**
This course focuses on developing instructional communication competence that can be applied to creating course and instructional materials, classroom management, assessing and evaluating learning and more.
Grade Mode: Normal Grading Mode

CMM 580 Special Topics **1-4 Credit hours**
PR: Permission of chair.
Grade Mode: Normal Grading Mode

CMM 581 Special Topics **1-4 Credit hours**
PR: Permission of chair.
Grade Mode: Normal Grading Mode

CMM 582 Special Topics **1-4 Credit hours**
PR: Permission of chair.
Grade Mode: Normal Grading Mode

CMM 583 Special Topics **1-4 Credit hours**
PR: Permission of chair.
Grade Mode: Normal Grading Mode

CMM 585 Independent Study **1-4 Credit hours**
PR: Permission of chair.
Grade Mode: Normal Grading Mode

CMM 586 Independent Study **1-4 Credit hours**
PR: Permission of chair.
Grade Mode: Normal Grading Mode

CMM 587 Independent Study **1-4 Credit hours**
PR: Permission of chair.
Grade Mode: Normal Grading Mode

CMM 588 Independent Study **1-4 Credit hours**
PR: Permission of chair.
Grade Mode: Normal Grading Mode

CMM 601 Quantitative Research in Comm **3 Credit hours**
Study of how basic quantitative research methods such as surveys, content analysis, and experiments are used to understand, explain, and analyze communication processes.
Grade Mode: Normal Grading Mode

CMM 602 Communication and Consulting **3 Credit hours**
An in-depth analysis of diagnostic and intervention strategies employed by communication consultants. Strategies include communication network analysis, communication process observation and consultation, communication role and norm negotiation, and team building.
Grade Mode: Normal Grading Mode

CMM 603 Nonverbal Communication **3 Credit hours**
This course examines the major dimensions of study in nonverbal communication, and the functions and effects of nonverbal messages.
Grade Mode: Normal Grading Mode

CMM 605 Qualitative Research in Comm **3 Credit hours**
Study of how qualitative research methods such as participant observation, interviewing, focus groups, and ethnography can be used to understand the role of communication in constructing social realities.
Grade Mode: Normal Grading Mode

CMM 606 Engaging Comm Theories **3 Credit hours**
Study of the philosophical foundations, theoretical perspectives, and historical development of the communication discipline and how communication theories are developed, analyzed, evaluated, and applied.
Grade Mode: Normal Grading Mode

CMM 620 Communication & Conflict **3 Credit hours**
An exploration of the theory, research, and practice of communication in understanding and negotiating interpersonal conflict.
Grade Mode: Normal Grading Mode

CMM 650 Innovative Comm Education **3 Credit hours**
Students analyze trends such as universal design for learning, classroom technology and AI, assessment-driven curricular enhancement, and social-emotional learning to understand their potential to innovate and evolve communication education practices.
Grade Mode: Normal Grading Mode

CMM 658 Communication and Technology **3 Credit hours**
Study of characteristics and functionality of new and emerging communication technologies. Students will apply theory and research to understand communication technology's effects on the self, others, and society.
Grade Mode: Normal Grading Mode

CMM 670 Interpersonal Health Comm **3 Credit hours**
Explores communication demands of human healthcare and healthcare promotion; examines communication controversies in the modern healthcare system, and examines communication strategies to resolve healthcare problems.
Grade Mode: Normal Grading Mode

CMM 671 Health Comm Campaigns **3 Credit hours**
Examines communication processes that influence human behavior and public policy through health promotion campaigns, including theories and practices of health behavior change and designing, implementing, and evaluating health communication interventions.
Grade Mode: Normal Grading Mode

CMM 673 Interpersonal Communication **3 Credit hours**
Explore how interpersonal communication influences the formation, maintenance, and dissolution of relational connections while developing interpersonal communication competence to improve relationships.
Grade Mode: Normal Grading Mode

CMM 674 Communication Pedagogy **3 Credit hours**
Explore and evaluate communication theories and research on the cognitive, rhetorical, and relational aspects of teaching and learning. Open to teachers, adjunct instructors, or graduate students in any discipline.
Grade Mode: Normal Grading Mode

CMM 675 Seminar **1-3 Credit hours**
Program of study not normally covered in other courses. Topics vary from semester to semester.
Grade Mode: Normal Grading Mode

CMM 676 Seminar **1-3 Credit hours**
Program of study not normally covered in other courses. Topics vary from semester to semester.
Grade Mode: Normal Grading Mode

CMM 677 Special Topics **1-3 Credit hours**
Program of study not normally covered in other courses. Topics vary from semester to semester.
Grade Mode: Normal Grading Mode

CMM 678 Special Topics **1-3 Credit hours**
Program of study not normally covered in other courses. Topics vary from semester to semester.
Grade Mode: Normal Grading Mode

CMM 680 Grant Writing for Nonprofits **3 Credit hours**
Provides a communication framework for analyzing a nonprofit organization; reviews the steps in grant writing; matches the needs of the nonprofit organization's needs with the grant fund; and examines the material required to write a successful grant.
Grade Mode: Normal Grading Mode

CMM 681 Thesis **1-6 Credit hours**
Attributes: No Textbook Required, Thesis
Grade Mode: Normal Grading Mode

CMM 685 Independent Study **1-4 Credit hours**
PR: Permission of chair.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

CMM 686 Independent Study **1-4 Credit hours**
PR: Permission of chair.
Grade Mode: Normal Grading Mode

CMM 687 Independent Study **1-4 Credit hours**
PR: Permission of chair.
Grade Mode: Normal Grading Mode

CMM 688 Independent Study **1-4 Credit hours**
PR: Permission of chair.
Grade Mode: Normal Grading Mode

CMM 689 Internship **1-3 Credit hours**
Supervised work experience in communication. (PR: Permission of Department Chair)
Attributes: No Textbook Required, Onsite Learning Experience
Grade Mode: Normal Grading Mode

Computer & Info Security (CYBR)

CYBR 500 Computer Security Design **3 Credit hours**
The course covers technical and analytical skills to implement comprehensive computer security that encompass designing secure systems, information security, protecting information assets, managing computer security, risk mitigation strategies, and incident response.
Grade Mode: Normal Grading Mode

CYBR 510 Intro to Cybersecurity **3 Credit hours**
This course provides an overview of the cybersecurity field, the basic foundations of the current technology and its impacts along with the predominant threat components and remediation.
Grade Mode: Normal Grading Mode

CYBR 530 Cybersec Policies & Mgmt **3 Credit hours**
The course covers risk management, integrating continuous monitoring and real-time security solutions with information systems to improve situational awareness and deployment of countermeasures.
Grade Mode: Normal Grading Mode

CYBR 535 Cyber Risk **3 Credit hours**
The functions and purposes of the latest developments in cybersecurity are covered. Topics include design, implementation, testing industrial networks and applications to ensure their security and reliability.
Pre-req: CYBR 510 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CYBR 542 Cyber Operations **3 Credit hours**
Study of various concepts and aspects in choosing, deploying, supporting, troubleshooting, and securing various local and distributed components of cyber operation.
Pre-req: CYBR 530 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CYBR 615 Cyber Vulnerability Assess **3 Credit hours**
This course focuses on the complete cycle of enterprise security from identifying vulnerabilities, detecting application exploitation and post exploitation mitigations and analysis for an enterprise level cyber infrastructure.
Grade Mode: Normal Grading Mode

CYBR 620 Cyberwarfare **3 Credit hours**
The course covers both offensive and defensive techniques pertaining to cybersecurity from techniques to find vulnerabilities and analyze the likelihood of an attack to developing solutions to secure cyber infrastructure.
Grade Mode: Normal Grading Mode

CYBR 625 Applied Cryptography **3 Credit hours**
This course introduces fundamentals of cryptography, including classical ciphers, Shannon's perfect secrecy, DES, AES, public-key crypto (RSA), as well as advanced cryptographic schemes.
Grade Mode: Normal Grading Mode

CYBR 680 Research in Cybersecurity **3 Credit hours**
This course covers various research methods and current significant findings in the field of cybersecurity.
Pre-req: CYBR 510 with a minimum grade of D.
Grade Mode: Credit/No Credit Grade Only

CYBR 681 Thesis **3 Credit hours**
Investigate a research problem of theoretical interest and practical value under mentorship of a cybersecurity faculty.
Pre-req: CYBR 680 with a minimum grade of D.
Attributes: Thesis
Grade Mode: Credit/No Credit Grade Only

CYBR 685 Independent Study **1-4 Credit hours**
Faculty supervised, individualized course of study.
Grade Mode: Normal Grading Mode

CYBR 698 Internship **1-6 Credit hours**
Supervised work experience in Cybersecurity.
Attributes: Onsite Learning Experience
Grade Mode: Credit/No Credit Grade Only

Computer Science (CS)

CS 502 Computer Architecture **3 Credit hours**
Design and analyze structure of major hardware components of computers including: ALU, instruction sets, memory hierarchy and caching, parallelism through multicore and many core, GPGPUs, storage systems and interfaces.
Grade Mode: Normal Grading Mode

CS 504 High Performance Computing **3 Credit hours**
Learn how to develop highly optimized applications for multi-core processors and clusters using software tools, parallel algorithms, performance profilers, and programming constructs in MPI, OpenMP, MapReduce, CUDA, and OpenCL.
Grade Mode: Normal Grading Mode

CS 505 Computing for Bioinformatics **3 Credit hours**
Study of computational algorithms and programming techniques for various bioinformatics tasks including parsing DNA files, sequence alignments, tree construction, clustering, species identification, principal component analysis, correlations, and gene expression arrays.
Grade Mode: Normal Grading Mode

CS 510 Advanced Database Systems **3 Credit hours**
This course introduces advanced topics in database systems including distributed systems, distributed databases, Big Data, cloud service, semantic web, web services, information security & privacy, and electronic commerce.
Grade Mode: Normal Grading Mode

CS 511 Advanced Programming **3 Credit hours**
The course covers advanced topics in Python programming including the use of parallel computation and GPU acceleration and investigate how to exploit frameworks such as Hadoop and Spark.
Grade Mode: Normal Grading Mode

CS 512 Embedded Systems **3 Credit hours**
The design of systems containing embedded computers. Micro-controller technology, assembly language and C programming, input/output interfacing, data acquisition hardware, interrupts, and timing. Real-time operating systems and application programming. Application examples.
Grade Mode: Normal Grading Mode

CS 515 Data Mining **3 Credit hours**
Covers (1) the process of knowledge discovery, (2) algorithms (association rules, classification, and clustering), and (3) real-world applications. Focuses on efficient data mining algorithms and scaling up data mining methods.
Grade Mode: Normal Grading Mode

CS 540 Digital Image Processing **3 Credit hours**
Study of mathematical techniques and algorithms for image sampling, quantization, intensity transformations, spatial filtering, Fourier transforms, frequency domain filtering, restoration and reconstruction, color imaging, wavelets, morphological image processing, and segmentation.
Grade Mode: Normal Grading Mode

CS 550 Information Retrieval **3 Credit hours**
Study of theory and algorithms for modeling and retrieving text. Text representation, IR models, query operations, retrieval evaluation, information extraction, text classification and clustering, enterprise and Web search, recommender systems.
Grade Mode: Normal Grading Mode

CS 552 Natural Lang Processing **3 Credit hours**
Fundamental algorithms and computational models for core tasks in natural language processing: word and sentence tokenization, parsing, information and meaning extraction, spelling correction, text summarization, question answering, and sentiment analysis.
Grade Mode: Normal Grading Mode

CS 580 Special Topics **1-4 Credit hours**
Study of emerging and advanced topics in Computer Science. Topics vary with instructor and change from one semester to another.
Grade Mode: Normal Grading Mode

CS 581 Special Topics **1-4 Credit hours**
Study of emerging and advanced topics in Computer Science. Topics vary with instructor and change from one semester to another.
Grade Mode: Normal Grading Mode

CS 582 Special Topics **1-4 Credit hours**
Study of emerging and advanced topics in Computer Science. Topics vary with instructor and change from one semester to another.
Grade Mode: Normal Grading Mode

CS 583 Special Topics **1-4 Credit hours**
Study of emerging and advanced topics in Computer Science. Topics vary with instructor and change from one semester to another.
Grade Mode: Normal Grading Mode

CS 600 Advanced Web Technology **3 Credit hours**
This course introduces modern web technologies and covers the concepts, practices, and technologies to design, develop, and manage scalable, reliable and secure web applications using client side and server side programming, mobile technology, web services, rest services, and cloud services that are accessible to a large number of users.
Grade Mode: Normal Grading Mode

CS 601 The Internet of Things **3 Credit hours**
This course covers the Internet of Things (IoT) Technologies. The course includes advanced topics in wireless networking technologies, mobile networks, software and hardware design for IoT applications and systems. In addition, this course offers advanced topics in cybersecurity.
Grade Mode: Normal Grading Mode

CS 602 Cloud Computing **3 Credit hours**
Study of emerging and advanced topics in Cloud Computing including theory and application development in cloud and understand the ways of increasing quality of services for hosted applications.
Grade Mode: Normal Grading Mode

CS 605 Software Specifications **3 Credit hours**
Study of software specification and verification technologies that facilitate: semantic reasoning; and verification of development artifacts including functional models, architecture, and source-code implementations.
Grade Mode: Normal Grading Mode

CS 610 Software Design **3 Credit hours**
Study of approaches to software design that meet availability, manageability, maintainability, performance, reliability, scalability, and securability goals. Emphasis is on object-oriented analysis and design, design patterns and metrics.
Grade Mode: Normal Grading Mode

CS 615 Software Testing **3 Credit hours**
Study of methods and tools to design high quality tests during all phases of software development. Topics include test design, test automation, test coverage criteria, and how to test software.
Grade Mode: Normal Grading Mode

CS 620 Applied Algorithms **3 Credit hours**
Study of clustering, graph-theoretic, genetic, probabilistic and randomized algorithms and their application to machine learning, data streams, data mining, computer vision, natural language processing, information retrieval, and bioinformatics.
Grade Mode: Normal Grading Mode

CS 625 AI Principles and Methods **3 Credit hours**
Study of machine learning and statistical pattern recognition algorithms and their application to data mining, bioinformatics, speech recognition, natural language processing, robotic control, autonomous navigation, text and web data processing.
Grade Mode: Normal Grading Mode

CS 630 Machine Learning **3 Credit hours**
Study of machine learning and statistical pattern recognition algorithms and their application to data mining, bioinformatics, speech recognition, natural language processing, robotic control, autonomous navigation, text and web processing.
Grade Mode: Normal Grading Mode

CS 645 Advanced Topics Bioinformatics **3 Credit hours**
Study of advanced algorithms, data structures, and architectures required for solving complex problems in Bioinformatics. Focus is on analysis of patterns in sequences and 3D-structures. Team taught seminar course.
Grade Mode: Normal Grading Mode

CS 650 Special Topics **1-4 Credit hours**
Study of emerging and advanced topics in Computer Science. Topics vary with instructor and change from one semester to another.
Grade Mode: Normal Grading Mode

CS 651 Special Topics **1-4 Credit hours**
Study of emerging and advanced topics in Computer Science. Topics vary with instructor and change from one semester to another.
Grade Mode: Normal Grading Mode

CS 652 Special Topics **1-4 Credit hours**
Study of emerging and advanced topics in Computer Science. Topics vary with instructor and change from one semester to another.
Grade Mode: Normal Grading Mode

CS 653 Special Topics **1-4 Credit hours**
Study of emerging and advanced topics in Computer Science. Topics vary with instructor and change from one semester to another.
Grade Mode: Normal Grading Mode

CS 660 Big Data Systems **3 Credit hours**
Learn high performance computing architectures and methods for developing and querying databases for Big Data.
Grade Mode: Normal Grading Mode

CS 670 Visual Analytics **3 Credit hours**
Study of approaches, algorithms, and tools for Big Data exploration, analysis, and interpretation to enable novel discoveries and innovation. Integrating analytic capabilities of computers and domain knowledge of human analysts.
Grade Mode: Normal Grading Mode

CS 681 Thesis **1-6 Credit hours**
Investigate a research problem of theoretical interest and practical value under mentorship of a computer science faculty.
Attributes: No Textbook Required, Thesis
Grade Mode: Credit/No Credit Grade Only

CS 685 Independent Study **1-4 Credit hours**
Pursue faculty supervised, individualized course of study of a topic which is not currently a part of the Computer Science graduate curriculum.
Grade Mode: Normal Grading Mode

CS 686 Independent Study **1-4 Credit hours**
Pursue faculty supervised, individualized course of study of a topic which is not currently a part of the Computer Science graduate curriculum.
Grade Mode: Normal Grading Mode

CS 687 Independent Study **1-4 Credit hours**
Pursue faculty supervised, individualized course of study of a topic which is not currently a part of the Computer Science graduate curriculum.
Grade Mode: Normal Grading Mode

CS 688 Independent Study **1-4 Credit hours**
Pursue faculty supervised, individualized course of study of a topic which is not currently a part of the Computer Science graduate curriculum.
Grade Mode: Normal Grading Mode

CS 690 Comprehensive Project **3 Credit hours**
Develop expertise in an emerging area of computer science through guided study under faculty mentorship.
Attributes: No Textbook Required
Grade Mode: Credit/No Credit Grade Only

CS 698 Internship **1-3 Credit hours**
Supervised work experience in computer science or related fields.
Attributes: No Textbook Required, Onsite Learning Experience
Grade Mode: Credit/No Credit Grade Only

Counseling (COUN)

COUN 509 Interv:Grp Proc/Dynamics/Thrpy **3 Credit hours**
Pre-req: (COUN 500) and (COUN 507) and (COUN 551).
Grade Mode: Normal Grading Mode

COUN 515 Humanizing Ed-Person in Proces **3 Credit hours**
Study of career choice theory, career change, counseling approaches in career selection and resources to assist in career choice.
Grade Mode: Normal Grading Mode

COUN 555 Crisis Int & Conf Res **3 Credit hours**
Students explore types, effects, and interventions for crises, disasters, and other trauma-causing events across the lifespan. Specific topics include ethics, self-care, cultural competence, suicide/homicide, intimate partner violence, sexual assault, emergency preparedness, disaster mental health, grief and bereavement.
Pre-req: COUN 600 with a minimum grade of C and COUN 609 with a minimum grade of C and COUN 574 with a minimum grade of C.
Grade Mode: Normal Grading Mode

COUN 556 Death & Grief Counseling **3 Credit hours**
Death and dying orientation for professionals, nonprofessionals about essentials of life in its terminal stages. Presents practical, theoretical, social and psychological aspects to promote healthy, accepting attitudes.
Pre-req: COUN 603 with a minimum grade of C and COUN 607 with a minimum grade of C and COUN 675 with a minimum grade of C.
Co-req: COUN 555
Grade Mode: Normal Grading Mode

COUN 560 Staff Development **1-4 Credit hours**
To meet needs of school, student personnel, mental health, and other workers. Credit may be used for certificate renewal and salary upgrading, but not degree programs. Titles vary.
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

COUN 561 Staff Development **1-4 Credit hours**
To meet needs of school, student personnel, mental health, and other workers. Credit may be used for certificate renewal and salary upgrading, but not degree programs. Titles vary. (CR/NR grading)
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

COUN 562 Staff Development **1-4 Credit hours**
To meet needs of school, student personnel, mental health, and other workers. Credit may be used for certificate renewal and salary upgrading, but not degree programs. Titles vary (CR/NR)
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

COUN 563 Staff Development **1-4 Credit hours**
To meet needs of school, student personnel, mental health, and other workers. Credit may be used for certificate renewal and salary upgrading, but not degree programs. Titles vary. (CR/NR grading)
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

COUN 571 Health & Wellness Couns **3 Credit hours**
Designed to help counselors deal with lifestyle issues related to physical well-being and demonstrate how health professionals can use counseling interventions in their work.
Grade Mode: Normal Grading Mode

COUN 574 Social & Cultural Found **3 Credit hours**
Recognize and use appropriate resources for effective counseling of people of different culturla, ethnic, social , class, racial, geographic, or other backgrounds. Learn when counseling is appropriate and in what form.
Grade Mode: Normal Grading Mode

COUN 575 Prev & Treat of Addict **3 Credit hours**
Course surveys assessment, diagnosis, and treatment of addiction from a bio-pyscho-social perspective.
Pre-req: COUN 607 with a minimum grade of C and COUN 603 with a minimum grade of C and COUN 675 with a minimum grade of C.
Grade Mode: Normal Grading Mode

COUN 577 Stress Management Counseling **3 Credit hours**
Provides beginning counselors an others with comprehensive information and strategies for successful management of stress and its consequences. Students explore theoretical and practical alternatives in counseling the stressed individual.
Pre-req: COUN 603 with a minimum grade of C and COUN 607 with a minimum grade of C and COUN 675 with a minimum grade of C.
Grade Mode: Normal Grading Mode

COUN 578 Creativity in Counseling **3 Credit hours**
Provide methods of integrating creativity and expressive therapy modalities into the therapeutic relationship in school and clinical mental health settings.
Pre-req: COUN 607 with a minimum grade of C and COUN 603 with a minimum grade of C and COUN 675 with a minimum grade of C.
Grade Mode: Normal Grading Mode

COUN 579 Pharmacology in Counseling **3 Credit hours**
Provides basic understanding of the role of therapeutic drugs in the treatment of psychiatric disorders, familiarize with most commonly used drugs, side effects, and adverse reactions in specific mental illness. (PR: COUN 600 & 601)
Pre-req: COUN 603 with a minimum grade of C and COUN 607 with a minimum grade of C and COUN 675 with a minimum grade of C.
Grade Mode: Normal Grading Mode

COUN 580 Special Topics **1-4 Credit hours**
Study, reading, and research in specialized areas of counseling and human relations. Areas of interest are offered at various times by the faculty to provide specialized study for advanced students or practicing professionals in the field of counseling. (PR: Consent)
Grade Mode: Normal Grading Mode

COUN 581 Special Topics **1-4 Credit hours**
Study, reading, and research in specialized areas of counseling and human relations. Areas of interest are offered at various times by the faculty to provide specialized study for advanced students or practicing professionals in the field of counseling. (PR: Consent)
Grade Mode: Normal Grading Mode

COUN 582 Special Topics **1-4 Credit hours**
Study, reading, and research in specialized areas of counseling and human relations. Areas of interest are offered at various times by the faculty to provide specialized study for advanced students or practicing professionals in the field of counseling. (PR: Consent)
Grade Mode: Normal Grading Mode

COUN 583 Special Topics **1-4 Credit hours**
Study, reading, and research in specialized areas of counseling and human relations. Areas of interest are offered at various times by the faculty to provide specialized study for advanced students or practicing professionals in the field of counseling. (PR: Consent)
Grade Mode: Normal Grading Mode

COUN 585 Independent Study **1-4 Credit hours**
Individual or group study and research of various issues and fields of emphasis in counseling. (PR: Consent)
Grade Mode: Normal Grading Mode

COUN 586 Independent Study **1-4 Credit hours**
Individual or group study and research of various issues and fields of emphasis in counseling. (PR: Consent)
Grade Mode: Normal Grading Mode

COUN 590 Human Sexuality in Coun **3 Credit hours**
Will provide understanding of human sexual development and examine the place of sexuality in human life, including the influences of biological, psychological, social, and cultural factors.
Pre-req: COUN 607 with a minimum grade of C and COUN 603 with a minimum grade of C and COUN 675 with a minimum grade of C.
Grade Mode: Normal Grading Mode

COUN 600 Professional Orientation **3 Credit hours**
This course provides an understanding of all aspects of professional helping in mental health including history, roles, ethics, standards and credentialing. (PR: Program admission or permission)
Grade Mode: Normal Grading Mode

COUN 601 Counsel Consulting Roles **3 Credit hours**
Th is course provides an exploration of consultation roles that are integrated into the various settings in which counselors work. Content includes an orientation to consultation and its historical development, theory and practice issues, and major models. Of special emphasis is focus upon case applications and presentations. (PR: COUN 600 and 607)
Grade Mode: Normal Grading Mode

COUN 602 Human Devel and Adjustment **3 Credit hours**
The course will explore human growth and development from birth through adulthood. Theories of character development, social maturation, abnormalities and variations in development due to gender, culture, and environmental factors will be covered. The change processes, helping relationships, and strategies for facilitating development appropriate to various phases of the life span will be addressed. (PR: COUN 600 and 603)
Grade Mode: Normal Grading Mode

COUN 603 Counseling Theories **3 Credit hours**
Survey of classical and contemporary counseling philosophies, history, and techniques as related to interpersonal relationships in the counseling process.
Pre-req: COUN 574 with a minimum grade of C and COUN 600 with a minimum grade of C and COUN 609 with a minimum grade of C.
Grade Mode: Normal Grading Mode

COUN 604 Group Coun & Tech **3 Credit hours**
Group dynamics, processes, counseling and consulting: includes theories, practices, methods, dynamics, facilitative skills, and supervised practice. (PR: COUN 574, 600, 602, EDF 621 or COUN 609)
Pre-req: COUN 603 with a minimum grade of C and COUN 607 with a minimum grade of C and COUN 675 with a minimum grade of C.
Grade Mode: Normal Grading Mode

COUN 605 Theory Prac Human Appr **3 Credit hours**
Provide an understanding of approaches to assessment and evaluation including history, theoretical and statistical aspects, applications to special populations, and legal and ethical concerns and issues. (PR: COUN 574, 600, 602, EDF 621 or COUN 609)
Pre-req: COUN 574 with a minimum grade of C and COUN 600 with a minimum grade of C and COUN 609 with a minimum grade of C.
Grade Mode: Normal Grading Mode

COUN 606 Career & Lifestyle Develop **3 Credit hours**
A study of career development theories and decision-making models that impact career development and related life factors.
Pre-req: COUN 600 with a minimum grade of C and COUN 609 with a minimum grade of C and COUN 574 with a minimum grade of C.
Grade Mode: Normal Grading Mode

COUN 607 Coun Tech & Human Relat **3 Credit hours**
Course focuses on learning and practicing individual counseling techniques from various theoretical perspective. Emphasis on basic interviewing, assessment, and counseling skills that facilitate the helping process. (PR: COUN 574, COUN 600)
Pre-req: COUN 574 with a minimum grade of C and COUN 600 with a minimum grade of C and COUN 609 with a minimum grade of C.
Grade Mode: Normal Grading Mode

COUN 608 Practicum **3 Credit hours**
A clinical experience under professional supervision preparing the student for internship; audio and video tapes, group supervision and feedback are used to achieve competency in the application of a counseling process. (PR: Consent. Students must have achieved a minimum grade of B in 606, 607, and EDF 621 or 625)
Pre-req: COUN 603 with a minimum grade of C and COUN 675 with a minimum grade of C and COUN 607 with a minimum grade of C.
Attributes: Onsite Learning Experience
Grade Mode: Normal Grading Mode

COUN 609 Research in Counseling **3 Credit hours**
Course provides the foundation of research methods including qualitative, quantitative and mixed methods. Students will also gain a fundamental understanding of basic statistical concepts.
Grade Mode: Normal Grading Mode

COUN 611 Foundations Comm Coun **3 Credit hours**
Examines the history of deinstitutionalization in human services with an emphasis on prevention in the delivery of such services in community agencies. Proposal writing for grants and needs assessmant procedures will be emphasized. (PR: COUN 603)
Grade Mode: Normal Grading Mode

COUN 612 Int-Superv Field Placement K-8 **3 Credit hours**
Pre-req: CR 599 and EDF 517 and EDF 621.
Grade Mode: Normal Grading Mode

COUN 613 Int-Suprv Field Placement 5-12 **3 Credit hours**
Pre-req: CR 599.
Grade Mode: Normal Grading Mode

COUN 616 Domestic Violence **1-3 Credit hours**
An introduction to the epidemiology, dynamics, clinical interventions and treatment of domestic violence.
Pre-req: COUN 603 with a minimum grade of C and COUN 607 with a minimum grade of C and COUN 675 with a minimum grade of C.
Co-req: COUN 555
Grade Mode: Normal Grading Mode

COUN 617 Seminar in Counseling **3 Credit hours**
Investigations in current problems of counseling agencies; content determined by needs of student.
Pre-req: CR 548 and CR 599.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

COUN 620 Workshop in Counseling **1-6 Credit hours**
Special workshops and short intensive courses on theroy, methods, supervision and other special topics in counseling, designed for advanced students and professionals in the counseling field or related fields. (PR: Consent)
Grade Mode: Normal Grading Mode

COUN 621 Intro to Child Abuse & Neglect **1 Credit hour**
Introduction to the dynamics of child abuse and neglect and to the legal and ethical issues of persons mandated to report child abuse and neglect. (PR: COUN 600 and 603)
Pre-req: (COUN 600 and COUN 603) or CR 614.
Grade Mode: Normal Grading Mode

COUN 622 Family Education **3 Credit hours**
Study of family education skills training for conducting family education groups and parent training. .
Grade Mode: Normal Grading Mode

COUN 628 FAMILY THERAPY IMMERSION **3 Credit hours**

COUN 630 Intro to Ment Health Coun **3 Credit hours**
Provides an overview of key functions of the clinical mental health counselor. Areas covered include: ethical decision making, professional identity, theory development, assessment, and diagnosis (PR: COUN 574, 600, 603, 604, 631)
Pre-req: COUN 603 with a minimum grade of C and COUN 607 with a minimum grade of C and COUN 675 with a minimum grade of C.
Grade Mode: Normal Grading Mode

COUN 631 Diag & Treatment Planning **3 Credit hours**
Provides an in-depth exploration of the knowledge and skills necessary for the practice of mental health counseling. Emphasis is given to the principles and practices that relate to psychopathology, DSM diagnosis, etiology and assessment, systematic treatment planning, interviewing, and short and long-term interventions. (PR: COUN 630)
Pre-req: COUN 675 with a minimum grade of C and COUN 603 with a minimum grade of C and COUN 607 with a minimum grade of C.
Grade Mode: Normal Grading Mode

COUN 632 Intro Mar/Coup & Fam Coun **3 Credit hours**
A comprehensive survey of the major theoretical models of marriage, couple, and family therapy from a systems perspective and the applied practices evolving from each orientation. (PR: COUN 600)
Pre-req: COUN 603 with a minimum grade of C and COUN 607 with a minimum grade of C and COUN 675 with a minimum grade of C.
Grade Mode: Normal Grading Mode

COUN 635 Core Funct Addiction Coun **3 Credit hours**
Advanced course designed to prepare students for work with clients presenting with substanace abuse, and addiction disorders. The course will address the nature and treatment of addiction with attention to the core functions of the addiction counselor. (PR: COUN 575)
Grade Mode: Normal Grading Mode

COUN 636 Couple Counseling **3 Credit hours**
This course is designed to introduce students to a variety theoretical concepts, techniques, and their application in the therapeutic setting. Emphasis is on basic interviewing, assessment, and counseling skills that facilitate the helping process through integration of various theoretical orientations.
Grade Mode: Normal Grading Mode

COUN 637 Adult/Family Dev & Transition **3 Credit hours**
Grade Mode: Normal Grading Mode

COUN 638 Interven: Mar/Coup/Fam Coun **3 Credit hours**
An intensive practical experience in marriage, couples, and family therapy techniques to prepare the student to enter the supervised internship of the program. (PR: Students must have achieved a minimum grade of B in COUN 637)
Grade Mode: Normal Grading Mode

COUN 639 Psychotheological Issues **3 Credit hours**
Specialization course offering topics germane to the concerns of Mental-Health workers, pastoral counselors, stress involved in counseling in religious settings.
Grade Mode: Normal Grading Mode

COUN 640 Sem Spirituality in Coun **3 Credit hours**
Seminar will view spirituality across many Religious traditions. The seminar interweaves spiritual bases and spiritual growth in counseling to better understand responsibility for actions and emotions.
Grade Mode: Normal Grading Mode

COUN 641 Correction Coun Seminar **1-9 Credit hours**
A critical examination of counseling models in corrections and an appraisal of current professional trends in community corrections. The course may include field experience in correctional settings. The course is designed for visiting professors and/or consultants who offer an expertise in a correctional setting. (PR: COUN 600 & 603 or Consent)
Pre-req: COUN 600 and COUN 603 or CR 614.
Grade Mode: Normal Grading Mode

COUN 646 Correctn Coun: Client Advocacy **3 Credit hours**
Techniques of collecting, recording & interpreting data.
Grade Mode: Normal Grading Mode

COUN 648 LEG/ETHIC/PROF ISSUES-MAR/FAMI **3 Credit hours**
Psychological foundations of personality development with emphasis on principles of mental health as related to problems of everyday living.
Grade Mode: Normal Grading Mode

COUN 650 Seminar Career Coun **3 Credit hours**
Counseling tools and techniques with emphasis on problem categories and patterns as related to the psychology of individual differences.
Pre-req: CR 599 and CR 548 and CR 614.
Grade Mode: Normal Grading Mode

COUN 651 Seminar Career Coun **3 Credit hours**
Practical experiences in cunseling under professional supervision.
Grade Mode: Normal Grading Mode

COUN 652 Career Coun Spec Populations **3 Credit hours**
Post-Master's Internship designated to fulfill the requirement for State certification as a school counselor. Not offered in summer terms.
Pre-req: (COUN 500) and (COUN 507).
Grade Mode: Normal Grading Mode

COUN 653 Career Asses Tech & Rept **3 Credit hours**
Supervised on-the-job experience in Agency Counseling. Supervised on-the-job experiences in counseling.
Pre-req: CR 672 and CR 651.
Grade Mode: Normal Grading Mode

COUN 654 Family Violence **3 Credit hours**
The course will examine violence in families, covering ages from infancy to elder adulthood with a focus on variations in types of assault, violence, and abuse found within, among, or pertaining to family members across all ages.
Pre-req: COUN 603 with a minimum grade of C and COUN 607 with a minimum grade of C and COUN 675 with a minimum grade of C.
Co-req: COUN 555
Grade Mode: Normal Grading Mode

COUN 655 Coun Victims Dom Violence **3 Credit hours**
This course will provide a foundation in assessment, treatment, and advocacy for victims, perpetrators, and children who have been involved in relationships or families where domestic violence has been present.
Pre-req: COUN 603 with a minimum grade of C and COUN 607 with a minimum grade of C and COUN 675 with a minimum grade of C.
Co-req: COUN 555
Grade Mode: Normal Grading Mode

COUN 656 DVIII: Children as Victims **3 Credit hours**
This course will address issues related to the cognitive, behavioral, and emotional problems of children who are primary victims or witness of domestic violence, and explore appropriate interventions.
Pre-req: CR 661 and CR 651.
Grade Mode: Normal Grading Mode

COUN 657 DVI: Working with Victims **3 Credit hours**
The course will focus on victim dynamics, diagnostic indicators that victims may present without revealing abuse, and treatment interventions that focus on victim strengths and empowerment.
Grade Mode: Normal Grading Mode

COUN 658 Community Response to DV **3 Credit hours**
This course will examine community systems and best practices associated with a centralized approach to victim and child safety and batterer accountability.
Pre-req: CR 613 and CR 651.
Grade Mode: Normal Grading Mode

COUN 660 Intro to Student Affairs **3 Credit hours**
Provides a broad, comprehensive introduction to the field of college student affairs and its role with the context of American higher education. Various student affairs functional areas, historical, and philosophical foundations of the field, professional standards, guiding theories, and models, and competencies needed to work with diverse student populations are examined.
Pre-req: CR 548 and CR 599 and COUN 603.
Grade Mode: Normal Grading Mode

COUN 662 Current Issues in Stu Affairs **3 Credit hours**
To enhance the student's awareness and understanding of the educational, environmental, administrative, legal, and ethical issues in the field of Student Affairs in colleges and universities, this course provides the opportunity to discover, discuss and analyze current issues impacting student affairs practices both nationally and internationally. (PR: COUN 603 and 607)
Pre-req: COUN 603 and COUN 607.
Grade Mode: Normal Grading Mode

COUN 663 Adv Seminar in Coun Theory **3 Credit hours**
Pre-req: (COUN 509).
Grade Mode: Normal Grading Mode

COUN 665 Community Resources **3 Credit hours**
Pre-req: (COUN 500) and (COUN 507).
Grade Mode: Normal Grading Mode

COUN 668 LEGAL/ETHIC ASP COUNS & STU PE **3 Credit hours**

COUN 669 Independent Study **1-6 Credit hours**
Grade Mode: Normal Grading Mode

COUN 670 Interv Current Issues Sch **3 Credit hours**
An in-depth examination of effective strategies for dealing with current issues in K-12 environment. Issuses such as academic failure, substance abuse, loss, violence, multicultural factors, etc. will be explored. (PR: COUN 603 and 607)
Pre-req: COUN 603 with a minimum grade of C and COUN 607 with a minimum grade of C.
Grade Mode: Normal Grading Mode

COUN 671 Voc Coun in the Schools **3 Credit hours**
A basic course for the community agency counselor, this course will introduce the student to: Diagnostics, based on the DSM III, Records, Report Writing, Ethics, and Law. (Core courses or permission)
Pre-req: CR 548 and CR 599.
Grade Mode: Normal Grading Mode

COUN 672 Current Pract in School Coun **3 Credit hours**
In-depth analysis of comprehensive developmental guidance school counseling programs, including the coordination of these program. Examination of effective strategies for dealing with current issues in K-12 environments will be covered.
Pre-req: COUN 600 with a minimum grade of C and COUN 609 with a minimum grade of C and COUN 574 with a minimum grade of C.
Grade Mode: Normal Grading Mode

COUN 673 Coun Child Adol Parents **3 Credit hours**
Consideration of effective counseling strategies and techniques appropriate for children, adolescents and parents through lecture, demonstration and laboratory experiences. Personal, social, career, academic and family related issues and dynamics will be explored. (PR: COUN 600 and 603)
Pre-req: COUN 607 with a minimum grade of C and COUN 603 with a minimum grade of C and COUN 675 with a minimum grade of C.
Grade Mode: Normal Grading Mode

COUN 674 Observe Sch Environment **3 Credit hours**
Introduction to the roles and functions of school pupil personnel professionals (general classrooms, exceptional student environments, support staff and administration), models of operation, problems, issues, and technniques. The organization and administration of school systems and philosophy of general and special education are considered. Students will spend a minimum of one-helf day a week observing in K through 12 schools.
Grade Mode: Normal Grading Mode

COUN 675 Leg/Ethical Issues for Coun **3 Credit hours**
An overview of professional issues in the field of counseling, mental health and education; an overview of legal and ethical issues specific to the field of counseling; an overview of international, national, regional and state legal and ethical cases effecting the field of counseling; an introduction to ethical and legal issues including an ethical and legal decision making models, licensure and Certification requirements, confidentiality, etc (PR: COUN 600 and COUN 603).
Pre-req: COUN 600 with a minimum grade of C and COUN 609 with a minimum grade of C and COUN 574 with a minimum grade of C.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

COUN 682 Tr in Trauma Recovery **3 Credit hours**
This course explores types of trauma experience in modern society, the inter- and intrapersonal effects those types of trauma on clients, and an introduction to treatment modalities and evidence based practice.
Pre-req: COUN 603 with a minimum grade of C and COUN 607 with a minimum grade of C and COUN 675 with a minimum grade of C.
Co-req: COUN 555
Grade Mode: Normal Grading Mode

COUN 683 Psychophys of Trauma **3 Credit hours**
This course explores effects of trauma on the central nervous system, psychomotor abilities and physiological and emotional responses to trauma, PTSD, traumatic injury.
Pre-req: COUN 603 with a minimum grade of C and COUN 607 with a minimum grade of C and COUN 675 with a minimum grade of C.
Co-req: COUN 555
Grade Mode: Normal Grading Mode

COUN 684 Treating Complex Trauma & Loss **3 Credit hours**
This course focuses on the treatment of complex trauma and loss, through investigation of trauma theory, phases of post-traumatic recovery, evidence-based treatment, and practice implications for complex cases. (PR: COUN 556 and COUN 682)
Pre-req: COUN 603 with a minimum grade of C and COUN 607 with a minimum grade of C and COUN 675 with a minimum grade of C.
Co-req: COUN 555
Grade Mode: Normal Grading Mode

COUN 685 Military Cult & Treat Vets **3 Credit hours**
This course is designed to introduce students to the nature of military culture, the unique challenges of deployment and re-entry for both military personnel and their families, and various mental health best practices specific to those affected with combat-related PTSD, TBI, and other traumatic injuries.
Pre-req: COUN 603 with a minimum grade of C and COUN 607 with a minimum grade of C and COUN 675 with a minimum grade of C.
Co-req: COUN 555
Grade Mode: Normal Grading Mode

COUN 686 Trauma and Suffering **3 Credit hours**
This course focuses on existential suffering caused by traumatic stress, and the counseling needs of affected individuals. It explores the nature of suffering, as well as a variety of philosophical, religious, and theoretical approaches to suffering. The course presents best practices for clinical approaches within professional counseling.
Pre-req: COUN 603 with a minimum grade of C and COUN 607 with a minimum grade of C and COUN 675 with a minimum grade of C.
Co-req: COUN 555
Grade Mode: Normal Grading Mode

COUN 687 Tr Rest Jus Sch Comm **3 Credit hours**
Critically examines restorative justice practices and principles in the context of traumatic stress. Reviews restorative justice both in school systems and in community settings, highlighting current best clinical practices and recent research.
Pre-req: COUN 603 with a minimum grade of C and COUN 607 with a minimum grade of C and COUN 675 with a minimum grade of C.
Co-req: COUN 555
Grade Mode: Normal Grading Mode

COUN 691 Intern Mental Health Coun **1-6 Credit hours**
Internship in Clinical Mental Health Counseling. 1-6 hrs. Supervised experience in mental health counseling. Participation in seminars on specified topics. Minimum 100 clock hours for each semester hour credit. (PR: COUN 608 and 631 with minimum grade of B or permission)
Pre-req: COUN 604 with a minimum grade of C and COUN 608 with a minimum grade of C and COUN 631 with a minimum grade of C.
Attributes: No Textbook Required, Onsite Learning Experience
Grade Mode: Normal Grading Mode

COUN 692 Intern Community Counseling **1-6 Credit hours**
Supervised experience in community counseling.
Pre-req: COUN 608 and COUN 631.
Grade Mode: Normal Grading Mode

COUN 693 Internship Marr & Fam Coun **3-6 Credit hours**
Internship in Marriage and Family Counseling. CR/NC. 3-6 hrs. Supervised experience in mental health counseling. Participation in seminars on specified topics. Minimum 100 clock hours for each semester hour credit. (PR: COUN 608 with grade of CR and minimum grade of B in COUN 638).
Pre-req: (COUN 608 and COUN 631) or CR 614.
Grade Mode: Credit/No Credit Grade Only

COUN 695 Intern in Correct Coun **3-6 Credit hours**
Supervised experience in corrections counseling. Participation in seminars on specified topics. Minimum 100 clock hours for each semester hour credit. (PR: COUN 608 and 641 with a minimum grade of B or permission)
Pre-req: (COUN 608 and COUN 641) or CR 614.
Grade Mode: Credit/No Credit Grade Only

COUN 696 Intern Career Coun **3-6 Credit hours**
Supervised experience in career counseling. Particitation in seminars on specified topics. Minimum 100 clock hours for each semester hour credit. (PR: COUN 608 and 653 with a minimum grade of B or permission)
Grade Mode: Normal Grading Mode

COUN 697 Internship Student Aff Coun **3-6 Credit hours**
Supervised experience in career counseling. Participation in seminars on specified topics. Minimum 100 clock hours for each semester hour credit. (PR: COUN 608 and 652 with a minimum grade of B or permission.)
Grade Mode: Normal Grading Mode

COUN 698 Internship in School Coun **1-6 Credit hours**
Internship in School Counseling. 1-6 hrs. Supervised experience in school counseling. Participation in seminars on specified topics. Minimum 100 clock hours for each semester hour credit. (PR: COUN 608, 670, 672, 675).
Pre-req: COUN 608 with a minimum grade of C and COUN 604 with a minimum grade of C and COUN 672 with a minimum grade of C and COUN 631 with a minimum grade of C.
Attributes: Onsite Learning Experience
Grade Mode: Normal Grading Mode

COUN 740 Internship **1-12 Credit hours**
A course designed to offer advanced graduate students an opportunity to practice under close supervision the professional skills required in the broad field of counseling in school and community settings. Instructor will indicate in course syllabus whether class is letter graded or S/U. (PR: Consent)
Pre-req: (COUN 611) or (COUN 612) or (COUN 613) or (COUN 614) or (COUN 615) or (COUN 616).
Grade Mode: Credit/No Credit Grade Only

COUN 741 Prof Devel & Advocacy **3 Credit hours**
This course prepares professional counselors for community leadership roles related to client advocacy in multicultural settings, current political trends, theories of social change, social justice, and advocacy planning.
Grade Mode: Normal Grading Mode

COUN 742 Current Issues in School Couns **3 Credit hours**
An examination of current issues affecting professional counselors and training in effectively dealing with the issues. Selected readings, guest speakers, and class discussion will center around professional issues relevant to counselors in various settings (i.e., legal and ethical considerations) (PR: Consent)
Pre-req: (COUN 509) and (ED 501) and (PSYC 584).
Grade Mode: Normal Grading Mode

COUN 746 Systems Intervention **3 Credit hours**
Examination of the major systems which may require intervention by a supervisor of counselors and training in effective intervention strategies. (PR: Consent)
Pre-req: (COUN 612) or (COUN 613).
Grade Mode: Normal Grading Mode

COUN 747 Adv Group Counseling **3 Credit hours**
The application of counseling theories in group settings, including supervised group leardership experiences. (PR: Consent)
Pre-req: COUN 604 with a minimum grade of C.
Grade Mode: Normal Grading Mode

COUN 750 Seminar **1-6 Credit hours**
For students in post-master's work who wish to discuss and study theory, principles, and techniques of counseling or other special topics. Instructor will indicate in course syllabus whether class is letter graded of S/U. (PR: Consent)
Pre-req: COUN 608 or COUN 603G or CR 614.
Grade Mode: Normal Grading Mode

COUN 755 Models of Counselor Supervisn **3 Credit hours**
A survey of theoretical approaches and techniques counseling supervision. Emphasis is placed on supervision of counselors in various settings. (PR: Consent)
Pre-req: (COUN 612) or (COUN 613).
Grade Mode: Normal Grading Mode

COUN 756 Residency in Counselor Suprvsn **6 Credit hours**
Supervised application of the knowledge and skills gained in the Ed.S. Program. Students will supervise practicing counselors in approved settings. (PR: Acceptance into the Ed.S. Program, completion of all other Ed.S. academic requirements, and consent)
Grade Mode: Normal Grading Mode

COUN 760 Special Topics **1-6 Credit hours**
Study, reading, and research in specialized areas of counseling, human relations, guidance or other special The Master of Arts
Grade Mode: Normal Grading Mode

Criminal Justice (CJ)

CJ 500 Applied Ethics in CJ **3 Credit hours**
Examines ethical issues and moral dilemmas faced by criminal justice professionals. Traditional ethical theories and practices designed to foster public trust in the criminal justice system are examined and applied.
Grade Mode: Normal Grading Mode

CJ 503 Understanding Cybercrime **3 Credit hours**
Examination of hacking, piracy, cyber stalking, cyber bullying, identity theft, and other cybercrimes through the lens of various criminological theories with an emphasis on research methodology and criminal justice policy.
Grade Mode: Normal Grading Mode

CJ 504 Theoretical Criminology **3 Credit hours**
A critical analysis of the major criminological theories and their empirical foundations. Current theory an research receive greater emphasis than historical development.
Grade Mode: Normal Grading Mode

CJ 505 Women and the CJS **3 Credit hours**
Examines factors surrounding women and the criminal justice system from a theoretical and practical perspective. Explores feminist ideologies, plus women as victims, offenders, and professionals in the justice system.
Grade Mode: Normal Grading Mode

CJ 506 Race, Ethnicity, Class,& Crime **3 Credit hours**
Examines the impact and relationship of race, ethnicity, and social class within the criminal justice system.
Grade Mode: Normal Grading Mode

CJ 510 Police Administration **3 Credit hours**
This course studies the functions and activities of police agencies, including police department organizations and responsibilities of police administrators. Current administrative and management techniques and theories are also explored.
Grade Mode: Normal Grading Mode

CJ 515 Rural Criminology **3 Credit hours**
Critical analysis of rural crime and the criminological sub-field of rural criminology. Examines the economic, racial, and cultural conditions in rural America which reproduce exploitive economies and overall destructive behaviors.
Grade Mode: Normal Grading Mode

CJ 516 Terrorism **3 Credit hours**
This course provides students with a working knowledge of the history of terrorism, the current status of terrorist groups, terrorism tactics, and methods to counteract terrorism.
Grade Mode: Normal Grading Mode

CJ 517 CJ Decision Making **3 Credit hours**
Focuses on theories of criminal justice decision-making and decision points across the criminal justice system. Topics include the decision to report crime, police decisions, jury decisions, and sentencing decisions.
Grade Mode: Normal Grading Mode

CJ 518 Crime and Pop Culture **3 Credit hours**
A critical examination of the popular culture presentations of crime, offenders, victims, and the criminal justice processes.
Grade Mode: Normal Grading Mode

CJ 520 Homeland Security **3 Credit hours**
This course takes a comprehensive approach to studying the facets of homeland security, the complexity of homeland security and terrorism, defeating terrorists, and Homeland Security's response to terrorist threats.
Grade Mode: Normal Grading Mode

CJ 522 Law of Evidence **3 Credit hours**
Leading rules and principles of exclusion and selection; burden of proof, nature and effect of presumptions; proof of authenticity and contents of writing; examinations competency and privilege of witnesses.
Grade Mode: Normal Grading Mode

CJ 526 Civil Liability Issues CJ **3 Credit hours**
This course examines various theories of civil liability that relate to Criminal Justice professionals, the civil justice system, and preventing and defending civil liability claims.
Grade Mode: Normal Grading Mode

CJ 528 Qualitative Criminology **3 Credit hours**
Presentation of the practice of qualitative research including the philosophical underpinnings of qualitative research, research questions and design, ethics, and data analysis.
Grade Mode: Normal Grading Mode

CJ 529 Environmental Criminology **3 Credit hours**
Explores theoretical, methodological, and practical approaches about environmental crime from a critical lens.
Grade Mode: Normal Grading Mode

CJ 533 Correctional Administration **3 Credit hours**
Objectives of correctional institutions; records; personnel, program development, security; educational programs.
Grade Mode: Normal Grading Mode

CJ 540 CJ Response to Dom Violence **3 Credit hours**
This course focuses on the legal response to child abuse, domestic violence, and elder abuse. Examines dynamics of abusive relationships, the effects of victimization, and current research on these issues.
Grade Mode: Normal Grading Mode

CJ 553 Seminar Crime Prevention **3 Credit hours**
This course examines theory, operation, and evaluation of crime prevention as a function of the criminal justice system. Techniques for crime prevention are analyzed from various orientations, including environmental design.
Grade Mode: Normal Grading Mode

CJ 560 Miscarriages of Justice **3 Credit hours**
This course provides a critical examination of the processes and procedures used by police, prosecutors, defense attorneys, judges, and corrections agents which may potentially produce errors or "miscarriages" of justice.
Grade Mode: Normal Grading Mode

CJ 580 Special Topics **1-4 Credit hours**
A study of special interest criminal justice topics under the supervision of a qualified faculty member.
Grade Mode: Normal Grading Mode

CJ 581 Special Topics **1-4 Credit hours**
A study of special interest criminal justice topics under the supervision of a qualified faculty member.
Grade Mode: Normal Grading Mode

CJ 582 Special Topics **1-4 Credit hours**
A study of special interest criminal justice topics under the supervision of a qualified faculty member.
Grade Mode: Normal Grading Mode

CJ 583 Special Topics **1-4 Credit hours**
A study of special interest criminal justice topics under the supervision of a qualified faculty member.
Grade Mode: Normal Grading Mode

CJ 585 Independent Study **1-4 Credit hours**
This course permits the student to undertake supervised research (field or library) in any area where there is no appropriate course.
Grade Mode: Normal Grading Mode

CJ 586 Independent Study **1-4 Credit hours**
This course permits the student to undertake supervised research (field or library) in any area where there is no appropriate course.
Grade Mode: Normal Grading Mode

CJ 587 Independent Study **1-4 Credit hours**
This course permits the student to undertake supervised research (field or library) in any area where there is no appropriate course.
Grade Mode: Normal Grading Mode

CJ 588 Independent Study **1-4 Credit hours**
This course permits the student to undertake supervised research (field or library) in any area where there is no appropriate course.
Grade Mode: Normal Grading Mode

CJ 590 Internship **1-6 Credit hours**
The placement of an individual into a criminal justice agency (police, probation, courts, jails) to observe and participate in its operation. Grading is CR/NC.
Attributes: Onsite Learning Experience
Grade Mode: Credit/No Credit Grade Only

CJ 601 Seminar Criminal Justice **3 Credit hours**
A forum to acquaint students, faculty and guests with each others' research and experiences in dealing with criminal justice issues.
Grade Mode: Normal Grading Mode

CJ 604 Adv Theory Criminal Just **3 Credit hours**
Course is designed to provide the student already familiar with the basic concepts of criminological theory the opportunity to examine in depth a selected set of theories.
Grade Mode: Normal Grading Mode

CJ 621 Contemporary Law & Society **3 Credit hours**
A review of contemporary legislation and court decisions relating to its impact on the justice system, justice officials, and members of society.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

CJ 655 Research Methods in CJ **3 Credit hours**
Elements of scientific research; interaction between research and theory; use of data processing resources.
Grade Mode: Normal Grading Mode

CJ 656 Data Applications in CJ **3 Credit hours**
Principles of data management, statistics, and program evaluation with an emphasis on their application in the criminal justice system.
Pre-req: CJ 655 with a minimum grade of C.
Grade Mode: Normal Grading Mode

CJ 679 Problem Report **3 Credit hours**
The preparation of a written report on a research problem or field study in Criminal Justice. (PR: CJ 655 and Permission)
Pre-req: CJ 655.
Grade Mode: Normal Grading Mode

CJ 681 Thesis **1-6 Credit hours**
Attributes: Onsite Learning Experience, Thesis
Grade Mode: Credit/No Credit Grade Only

CJ 699 Capstone Experience **3 Credit hours**
A culminating experience where students will apply knowledge and skills learned in their program of study to create, in collaboration with an agency or organization in the field, an original, scholarly work that addresses a current issue of concern.
Pre-req: CJ 601 and CJ 604 and CJ 655 and CJ 656.
Attributes: Onsite Learning Experience
Grade Mode: Normal Grading Mode

Cultural Studies-Humanities (CULS)

CULS 500 Stdys in Thought & Culture **3 Credit hours**
Basic concepts and cultural expressions in words, principally of area or period studies, such as classical Western, medieval Western, modern European and American.
Grade Mode: Normal Grading Mode

CULS 530 Appr to Communic Criticism **3 Credit hours**
Course examines the theoretical approaches to criticism across the broad range of media, with focus on the philosophy behind each and on their various applications.
Grade Mode: Normal Grading Mode

CULS 540 World Religions **3 Credit hours**
Study of several religions as they developed within their individual times and cultures.
Grade Mode: Normal Grading Mode

CULS 550 Ethics **3 Credit hours**
A critical examination of ethical theories as seen in a detailed examination of several works. Theories may include naturalism, intuitionism, non-cognitivism, unitarianism, and natural law.
Grade Mode: Normal Grading Mode

CULS 560 History of Ideas **3 Credit hours**
A study of the efforts of philosophers to construct general conceptions of the world. Recent approaches in the investigation of oncology and cosmology will be examined.
Grade Mode: Normal Grading Mode

CULS 600 Selected Topics in Cultural St **1-6 Credit hours**
Selected topics in an area of cultural studies. The specific topic will be announced in the schedule of classes. Students may take up to nine hours in selected topics.
Grade Mode: Normal Grading Mode

CULS 610 Seminar in Appalachian Culture **3 Credit hours**
Exploration of selected aspects of culture (e.g., art, music folklore, history, literature), emphasizing regional culture from an interdisciplinary perspective.
Grade Mode: Normal Grading Mode

CULS 611 Appal Std: Themes & Voices **3 Credit hours**
This interdisciplinary course orients students to the significant issues and research in Appalachian studies. Important political, social, and cultural issues will be considered. Research areas are introduced.
Grade Mode: Normal Grading Mode

CULS 612 Time & Place in Appalachia **3 Credit hours**
This interdisciplinary course orients students to the importance of geography, topography, and geology to the history and development fo the Appalachian region.
Grade Mode: Normal Grading Mode

CULS 620 Women/Men & Cultural Change **3 Credit hours**
A study of gender differences from sociological and philosophical perspectives. Topical areas covered include communications, law, literature, popular culture, ethics, and business.
Grade Mode: Normal Grading Mode

CULS 650 Classical Fdtns Comm Studies **3 Credit hours**
Cause surveys major contributions to rhetorical theory during the classical period and the development of rhetorical criticism in the centuries since. Philosophers/ writers will include Plato, Aristotle, Cicero and Quintilian
Grade Mode: Normal Grading Mode

CULS 651 1st Amendment-Social/Ed Issues **3 Credit hours**
Grade Mode: Normal Grading Mode

CULS 652 Communications/Social Mvmts **3 Credit hours**
Course examines the role of communication in successful social movements. Contemporary reform movements are analyzed to determine communication strategies, organizational issues, leadership concerns and rhetorical focus.
Grade Mode: Normal Grading Mode

CULS 653 Media & the Political Process **3 Credit hours**
An introduction to the study of political rhetoric, the course relates rhetorical theory to political communiction and considers the impact of political communication in government, the electoral process, and society.
Grade Mode: Normal Grading Mode

Curr & Inst (CI)

CI 501 Middle Childhood Curric **3 Credit hours**
The study of procedures for creating a functional middle childhood curriculum with emphasis upon the needs of middle childhood learners.
Grade Mode: Normal Grading Mode

CI 503 Meth Teach Mid Child Grd **3 Credit hours**
Study of methods appropriate for teaching in the middle childhood grades and the production and utilization of materials and resources in these grades. Middle school clinical experience is required.
Grade Mode: Normal Grading Mode

CI 511 Analysis Teach Early Yrs **2 Credit hours**
The analysis and appraisal of teaching strategies employed in the teaching of young children.
Grade Mode: Normal Grading Mode

CI 515 Int Meth & Mat: Sec Ed **3 Credit hours**
General scaondary/middle school course with emphasis on instructional standards and objectives, methods, and materials of the disciplines. A clinical experience provides observation and teaching.
Co-req: EDF 537
Grade Mode: Normal Grading Mode

CI 517 Classroom Discipline Tech **3 Credit hours**
Identification of common classroom discipline problems and techniques for dealing with behavioral incidents in school settings K-12.
Grade Mode: Normal Grading Mode

CI 542 Instr & Clrm Mgt in Elem Ed **3 Credit hours**
This course allows elementary education students to critically examine a variety of classroom management strategies and educational issues that impact instruction.
Grade Mode: Normal Grading Mode

CI 549 Instr & Clrm Mgt Sec Ed **3 Credit hours**
Classroom management with an emphasis on practical techniques for dealing with management problems in secondary and middle school settings.
Grade Mode: Normal Grading Mode

CI 551 Writing to Learn/Content Area **3 Credit hours**
Designed to introduce teachers to successful approaches and strategies to foster thinking and learning through writing, and experiment with a variety of approaches and techniques in their classrooms.
Grade Mode: Normal Grading Mode

CI 552 WV Writing Project **3-6 Credit hours**
Participants will examine problems in the teaching of writing, present and demonstrate approaches to the teaching of writing, study current and past research in the field.
Grade Mode: Normal Grading Mode

CI 559 Diversity Equity Incl in Ed **3 Credit hours**
Considers diversity, equity, and inclusion with an emphasis on theory and practice for teaching students with diverse perspectives and backgrounds.
Grade Mode: Normal Grading Mode

CI 560 Staff Development **1-4 Credit hours**
Courses and activities designed to meet the specific inservice need of public school personnel. Credit in these courses may be used for certificate renewal and salary upgrading if approved but not in degree programs.
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

CI 561 Staff Development **1-4 Credit hours**
Courses and activities designed to meet the specific inservice need of public school personnel. Credit in these courses may be used for certificate renewal and salary upgrading if approved but not in degree programs. CR/NC grading.
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

CI 562 Staff Development **1-4 Credit hours**
Courses and activities designed to meet the specific inservice needs of public school personnel. Credit in these courses may be used for certificate renewal and salary upgrading if approved but not in degree programs. CR/NC grading.
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

CI 563 Staff Development **1-4 Credit hours**
Courses and activities designed to meet the specific inservice needs of public school personnel. Credit in these courses may be used for certificate renewal and salary upgrading if approved but not in degree programs. CR/NC grading.
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

CI 564 Staff Development **1-4 Credit hours**
Courses and activities designed to meet the specific inservice needs of public school personnel. Credit in these courses may be used for certificate renewal and salary upgrading if approved but not in degree programs. CR/NC grading.
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

CI 580 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CI 581 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CI 582 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CI 583 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CI 584 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CI 585 Independent Study **1-4 Credit hours**
Permission of Chair and GPA 3.0 to take class. Limit of 6 hrs. of Independent Study to be used in master's degree program.
Grade Mode: Normal Grading Mode

CI 586 Independent Study **1-4 Credit hours**
Permission of Chair and GPA 3.0 to take class. Limit of 6 hrs. of Independent Study to be used in master's degree program.
Grade Mode: Normal Grading Mode

CI 587 Independent Study **1-4 Credit hours**
Permission of Chair and GPA 3.0 to take class. Limit of 6 hrs. of Independent Study to be used in master's degree program.
Grade Mode: Normal Grading Mode

CI 588 Independent Study **1-4 Credit hours**
Permission of Chair and GPA 3.0 to take class. Limit of 6 hrs. of Independent Study to be used in master's degree program.
Grade Mode: Normal Grading Mode

CI 591 Workshop **1-4 Credit hours**
A study of practical applications in teacher education and related fields for advanced students and professionals. Experience in new techniques and application of new knowledge.
Grade Mode: Normal Grading Mode

CI 592 Workshop **1-4 Credit hours**
A study of practical applications in teacher education and related fields for advanced students and professionals. Experience in new techniques and application of new knowledge.
Grade Mode: Normal Grading Mode

CI 593 Workshop **1-4 Credit hours**
A study of practical applications in teacher education and related fields for advanced students and professionals. Experience in new techniques and application of new knowledge.
Grade Mode: Normal Grading Mode

CI 594 Workshop **1-4 Credit hours**
A study of practical applications in teacher education and related fields for advanced students and professionals. Experience in new techniques and application of new knowledge.
Grade Mode: Normal Grading Mode

CI 605 Trauma Res. Child Guid. in ECE **3 Credit hours**
Analysis of research-based, developmentally appropriate child guidance methods through a trauma-responsive lens that can be implemented by those who work with young children.
Grade Mode: Normal Grading Mode

CI 609 Curric Modern Elem School **3 Credit hours**
Examination of traditional and current assumptions undergiriding the modern elementary school curriculum with emphasis on converting theoretical bases into plans for curriculum change and modernization.
Grade Mode: Normal Grading Mode

CI 610 Curric Modern Sec School **3 Credit hours**
Analysis of the social and political factors which affect secondary school curriculum and emphasis upon trends and developments in high schools today.
Grade Mode: Normal Grading Mode

CI 618 Inform Learn Prim Mid Sch **3 Credit hours**
Informal learning in the primary and middle school with emphasis on the significance of natural child development, learning through games and play, and the British model for infant and junior schools, and related activities for the middle years (ages 10-14) in middle school settings.
Grade Mode: Normal Grading Mode

CI 623 Instruct Models Assess Tech **3 Credit hours**
Selected teaching models are analyzed with implications for the role of the teacher; assessment of influences of the teacher.
Grade Mode: Normal Grading Mode

CI 624 Adv Instruction Strategy **3 Credit hours**
Performance-based laboratory experiences in a micro-teaching laboratory development of a personalized teaching repertoire. (PR: CI 515 or permission)
Pre-req: CI 515.
Grade Mode: Normal Grading Mode

CI 627 Program Plan and Evaluation **3 Credit hours**
Explicitly links program planning in/for organizations with advances in evaluation research practice in education and closely related fields. Designed for students engaged in varying levels of professional practice.
Grade Mode: Normal Grading Mode

CI 630 Practicum Early Childhood Ed **1-3 Credit hours**
Supervised experience in teaching pre-kindergarten and/or kindergarten
Attributes: Onsite Learning Experience
Grade Mode: Satisfactory/Unsatisfactory

CI 631 Early Child. Approach & Method **3 Credit hours**
Exploration of research-based and instructional-focused approaches to early childhood education in and out of the classroom environment.
Grade Mode: Normal Grading Mode

CI 632 Early Childhood Programs **3 Credit hours**
An examination of past and present programs for young children with opportunity provided for curriculum development.
Grade Mode: Normal Grading Mode

CI 633 Adult Involve in Early Ed **3 Credit hours**
Ways of communicating and involving paraprofessionals, parents, volunteers, staff in the education of young children.
Grade Mode: Normal Grading Mode

CI 634 Lang/Cog Early Childhood **3 Credit hours**
Examination of selected studies in language acquisition and cognitive development of children from birth to eight years of age.
Grade Mode: Normal Grading Mode

CI 638 Curriculum Planning **3 Credit hours**
A study of the fundamental skills needed to evaluate educational progress at the classroom, program, and school levels.
Grade Mode: Normal Grading Mode

CI 640 Literature **1-3 Credit hours**
A program of reading, either extensive or intensive, and reports on a group of outstanding contributions to education; readings selected with guidance of advisor. Only one registration for Curriculum and Instruction 640 is permitted.
Grade Mode: Normal Grading Mode

CI 641 Seminar **1-6 Credit hours**
A guided program of readings, reports and discussions. No student may register for this course a second time.
Grade Mode: Normal Grading Mode

CI 656 Teaching Language Arts **3 Credit hours**
A unified Reading-Language instructional approach to develop a basic understanding of reading-language related principles derived from disciplines, research, and innovation classroom practices.
Grade Mode: Normal Grading Mode

CI 657 Adv Tchg Elem/Mdle Sch Math **3 Credit hours**
Historical, social, psychological, and philosophical foundations of mathematics education; investigation of current trends and issues in contemporary programs.
Grade Mode: Normal Grading Mode

CI 659 Symposium Elem/Sec Ed I **3 Credit hours**
The symposium is the culmination of the master's degree program in Elementary Education. Secondary Education, and Early Childhood Education. This is the first of a twopart sequence. (PR: Consent)
Grade Mode: Credit/No Credit Grade Only

CI 670 Adv Tchg Elem/Mdle Sch SOS **3 Credit hours**
Materials and procedures for teaching social studies with emphasis on a survey of succesful programs of instruction.
Grade Mode: Normal Grading Mode

CI 671 Adv Tchg Elem/Mdle Sch Science **3 Credit hours**
Intensive concentration on helping children inquire into the earth, physical, and biological sciences through modern methods and media.
Grade Mode: Normal Grading Mode

CI 672 Practicum in Education **3-6 Credit hours**
Clinical Experience: Directed activity in a clinical setting.
Attributes: Onsite Learning Experience
Grade Mode: Credit/No Credit Grade Only

CI 675 Curriculum Theory **3 Credit hours**
Analysis of the assumptions undergirding curriculum development.
Grade Mode: Normal Grading Mode

CI 676 Program Evaluation **1-3 Credit hours**
An examination of program evaluation models and techniques for instructional supervisors.
Grade Mode: Normal Grading Mode

CI 677 Writing Publicatn Prof Ed **3 Credit hours**
For professional educators and students who wish to study and practice writing articles for publication in scholarly journals in the field of education.
Grade Mode: Normal Grading Mode

CI 678 The Supervising Teacher **3 Credit hours**
Duties and responsibilities of the teacher who supervises student teachers.
Grade Mode: Normal Grading Mode

CI 679 Classrm Mgt Elem Teachers **3 Credit hours**
This course is designed for elementary teachers. The content includes methods of managing the physical and social environment in the classroom.
Grade Mode: Normal Grading Mode

CI 680 Symposium Elem/Sec Ed II **3 Credit hours**
The comprehensive assessment requirement is met within the framework of this course. (PR: Consent.)
Grade Mode: Satisfactory/Unsatisfactory

CI 681 Thesis **1-6 Credit hours**
Students completing 681 must defend their thesis in an oral examination.
Attributes: Thesis
Grade Mode: Normal Grading Mode

CI 690 Capstone Experience **3 Credit hours**
This course is designed as a culminating experience that allows participants to demonstrate professional knowledge and skills related to program experiences.
Grade Mode: Credit/No Credit Grade Only

CI 701 Curriculum Development **3 Credit hours**
To review Curriculum Development and Planning from the historic perspective, the four bases of curriculum and the interpretation into the assumptions that can be translated into instructional design.
Grade Mode: Normal Grading Mode

CI 702 Curriculum Theories **3 Credit hours**
This course will give the students a basic foundation in the theories and paradigms underlying curriculum from the past, present and future.
Grade Mode: Normal Grading Mode

CI 703 Theory Models & Res. of Teach **3 Credit hours**
It is the intent of this course to analyze and synthesize the historical development as it correlates to the development of curriculum and ultimately has implication on instructional design. Besides behaviorism, cognitivism, and constructivism, this course will discuss humanism, brain-based learning, developmental appropriateness, multiple intelligence and thinking styles.
Grade Mode: Normal Grading Mode

CI 704 Soc Cult Pol Determ Curr **3 Credit hours**
This course critically analyzes the social, cutural, and political determinants of curriculum, and examines issues of difference and equity in curriculum. (PR: Admission to C&I doctoral program or permission)
Grade Mode: Normal Grading Mode

CI 705 Higher Education Curriculum **3 Credit hours**
This course is an introduction to the development and management of the curriculum in higher education instititutions.
Grade Mode: Normal Grading Mode

CI 706 Multicultural/Diversity Issues **3 Credit hours**
This course attempts to understand the issue of differences and equity through personal and critical analyses of the philosophical, social, and cultural perspectives that inform and shape curriculum and teaching.
Grade Mode: Normal Grading Mode

CI 707 Curriculum Change **3 Credit hours**
This course will explore current developments in curriculum transformation and change theory. This course will examine the impace of change theory on curriculum development.
Grade Mode: Normal Grading Mode

CI 735 Policy Studies **3 Credit hours**
This course focuses on current organizational policy issues and provides conceptual and analytical tools for their critical examination.
Grade Mode: Normal Grading Mode

CI 780 Special Topics in Curr/Inst **1-9 Credit hours**
This course requires study, reading and research in an advisor/chair approved area of curriculum and instruction. This course limited to Ed.D and Ed.S. students.
Grade Mode: Normal Grading Mode

CI 785 Independent Study **3 Credit hours**
Independent Study
Grade Mode: Normal Grading Mode

CI 797 Curr & Inst Dissertation Res **1-9 Credit hours**
This course is designed to support the student's doctoral research. The major focus is competion of the dissertation. (PR: Admitted to Candidacy of C & I Doctoral Program. First Term Offered: Spring 2004)
Attributes: Thesis
Grade Mode: Credit/No Credit Grade Only

Curr & Inst - Educa Computing (CIEC)

CIEC 534 Appli Software Class Curr Area **3 Credit hours**
Offers hands-on experience using applications software (databases, multimedia, spreadsheets, word processing) and explores a range of related topics for schools, including state/national standards, current trends/issues, Internet/communications technologies, and hardware accessories.
Grade Mode: Normal Grading Mode

CIEC 560 Staff Development **1-4 Credit hours**
Courses and activities designed to meet the inservice needs of public school personnel. Credit in these courses may be used for certificate renewal and salary upgrades if approved but may not be used for degree programs. CR/NC grading.
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

CIEC 561 Staff Development **1-4 Credit hours**
Courses and activities designed to meet the inservice needs of public school personnel. Credit in these courses may be used for certificate renewal and salary upgrades if approved, but may not be used for degree programs. CR/NC grading.
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

CIEC 562 Staff Development **1-4 Credit hours**
Courses and activities designed to meet the inservice needs of public school personnel. Credit in these courses may be used for certificate renewal and salary upgrades if approved but may not be used for degree programs. CR/NC grading.
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

CIEC 563 Staff Development **1-4 Credit hours**
Courses and activities designed to meet the inservice needs of public school personnel. Credit in these courses may be used for certificate renewal and salary upgrades if approved but may not be used for degree programs. CR/NC grading.
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

CIEC 564 Staff Development **1-4 Credit hours**
Courses and activities designed to meet the inservice needs of public school personnel. Credit in these courses may be used for certificate renewal and salary upgrades if approved but may not be used for degree programs. CR/NC grading.
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

CIEC 580 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CIEC 581 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CIEC 582 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CIEC 583 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CIEC 585 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CIEC 586 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CIEC 587 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CIEC 588 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CIEC 591 Workshop **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CIEC 592 Workshop **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CIEC 593 Workshop **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CIEC 594 Workshop **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CIEC 600 Instructional Design & Tech **3 Credit hours**
An analysis of current systems of educational computing based on models of instruction, learning modalities, and desired learning outcomes. (PR: CIEC 534 or equivalent or consent).
Grade Mode: Normal Grading Mode

CIEC 610 Local Area Net/Telecom in Sch **3 Credit hours**
A hands-on approach to managing and using local area networks and telecommunications to meet the instructional needs of the school. (PR: CIEC 534 or equivalent or censent)
Grade Mode: Normal Grading Mode

CIEC 615 Online Course Devel/Delivery **3 Credit hours**
This course offers participates the opportunity to explore strategies and issues related to the development and delivery of online courses.
Grade Mode: Normal Grading Mode

CIEC 620 Software Eval & Selection **3 Credit hours**
In-depth evaluation of software based on studentdeveloped criteria. (PR: CIEC 600 or equivalent)
Grade Mode: Normal Grading Mode

CIEC 625 Exploring AI in Education **3 Credit hours**
Provides foundational knowledge and practical, ethical applications of Generative Artificial Intelligence for educators from preschool through higher education. Covers use of AI in assessment, teaching, learning, and various educational tasks.
Grade Mode: Normal Grading Mode

CIEC 630 Authoring Systems & Multimedia **3 Credit hours**
Explores multimedia design as process and product while providing hands-on experience using authoring systems for planning, creating, editing, and publishing text, graphics/images, animations, audio, video and interactive projects.
Grade Mode: Normal Grading Mode

CIEC 635 Using Internet in Classroom **3 Credit hours**
This course provides an introduction to the Internet, with an emphasis on the World Wide Web and its potential uses for teaching and learning.
Grade Mode: Normal Grading Mode

CIEC 660 Computers in Instruction **3 Credit hours**
This course is designed for inservice teachers who are familiar with the "BASIC programming" language and who wants to learn how the microcomputer can be utilized in a content area. (PR: CI 530)
Grade Mode: Normal Grading Mode

CIEC 699 Final Project in Curr Area **3 Credit hours**
A final project related to the student's curriculum area which demonstrates the ability to design and implement a computer-based curriculum application. (PR: CIEC 630 or equivalent)
Grade Mode: Normal Grading Mode

CIEC 700 Technology and Curriculum **3 Credit hours**
This course provides an overview of current issues related to technology in education while also providing participants with the opportunity to improve personal technology skills and use.
Grade Mode: Normal Grading Mode

Curr & Inst - Math Educa (CIME)

CIME 500 Math for the Elem Teach I **3 Credit hours**
Systems of numeration, sets, relations, binary operations, decimal and other base systems, natural numbers, integers, rational numbers, and real numbers with emphasis on the algebraic structure.
Grade Mode: Normal Grading Mode

CIME 501 Math for the Elem Tchr II **3 Credit hours**
Continuation of CIME 500.
Grade Mode: Normal Grading Mode

CIME 555 Technical Math for Math Educa **3 Credit hours**
Specialized mathematical knowledge for teaching: An in-depth analysis of the foundations of mathematics: numbers and operations, ratio and proportion, and numbering systems, with emphasis on workplace applications and mathematical tools.
Grade Mode: Normal Grading Mode

CIME 556 Finite Math for Math Educa **3 Credit hours**
Specialized mathematical knowledge for teaching: A study of set theory; probability; data analysis; elements of discrete mathematics, such as combinatorics and graph theory; and the mathematics of finance.
Grade Mode: Normal Grading Mode

CIME 560 Staff Development **1-4 Credit hours**
Courses and activities designed to meet the inservice needs of public school personnel. Credit in these courses may be used for certificate renewal and salary upgrades if approved, but may not be used for degree programs. CR/NC grading.
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

CIME 561 Staff Development **1-4 Credit hours**
Courses and activities designed to meet the inservice needs of public school personnel. Credit in these courses may be used for certificate renewal and salary upgrades if approved, but may not be used for degree programs. CR/NC grading.
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

CIME 562 Staff Development **1-4 Credit hours**
Courses and activities designed to meet the inservice needs of public school personnel. Credit in these courses may be used for certificate renewal and salary upgrades if approved, but may not be used for degree programs. CR/NC grading.
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

CIME 563 Staff Development **1-4 Credit hours**
Courses and activities designed to meet the inservice needs of public school personnel. Credit in these courses may be used for certificate renewal and salary upgrades if approved, but may not be used for degree programs. CR/NC grading.
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

CIME 564 Staff Development **1-4 Credit hours**
Courses and activities designed to meet the inservice needs of public school personnel. Credit in these courses may be used for certificate renewal and salary upgrades if approved, but may not be used for degree programs. CR/NC grading.
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

CIME 580 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CIME 581 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CIME 582 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CIME 583 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CIME 584 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CIME 585 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CIME 586 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CIME 587 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CIME 588 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CIME 591 Workshop **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CIME 592 Workshop **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CIME 593 Workshop **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CIME 594 Workshop **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CIME 650 Algebra for Math Educator **3 Credit hours**
Specialized mathematical knowledge for teaching: An in-depth study of topics typically found in a college algebra course.
Grade Mode: Normal Grading Mode

CIME 657 Precalculus for Math Educa **3 Credit hours**
Specialized mathematical knowledge for teaching: A study of advanced algebraic structures and functions of change, including an introduction to calculus.
Grade Mode: Normal Grading Mode

CIME 658 Geometry for Math Educat **3 Credit hours**
Specialized mathematical knowledge for teaching: Basic concepts of logic and mathematical proofs. Topics include angle relationships, parallel, and perpendicular lines, circles, polygons, solids, triangles, elementary trigonometry, and use of geometry software.
Grade Mode: Normal Grading Mode

CIME 670 Teaching Mathematics **3 Credit hours**
Emphasis will be on planning for instruction based on how students learn mathematics, state or district standards, research on best practices, NCLB goals, and data from a variety of assessments.
Grade Mode: Normal Grading Mode

CIME 673 Elem Math Methds Practice K-6 **3 Credit hours**
Culmination course that provides a setting for examining research-based elementary math methods and leadership, and a supervised practicum teaching experience in an educational field-based environment.
Pre-req: CIME 500 with a minimum grade of C and CIME 501 with a minimum grade of C and CIME 555 with a minimum grade of C and CIME 650 with a minimum grade of C and CIME 658 with a minimum grade of C.
Attributes: Onsite Learning Experience
Grade Mode: Normal Grading Mode

CIME 675 Superv Field Prac/Math 5-8 **3 Credit hours**
Supervised practicum in which the student demonstrates and is assessed in mathematics teaching skills in a clinical setting in grades 5-9.
Attributes: Onsite Learning Experience
Grade Mode: Credit/No Credit Grade Only

CIME 677 Superv Field Pract/Math 5-12 **3 Credit hours**
Supervised practicum in which the student demonstrates and is assessed in mathematics teaching skills in a clinical setting in grades 9-12.
Attributes: Onsite Learning Experience
Grade Mode: Credit/No Credit Grade Only

Curr & Inst - Deaf And Hard Of Hearing (CIDH)

CIDH 501 American Sign Language I **3 Credit hours**
This course emphasizes the learning of basic person-to person conversational signing skills as a second language, including use and comprehension of ASL vocabulary, syntax and fingerspelling.
Grade Mode: Normal Grading Mode

CIDH 502 American Sign Language II **3 Credit hours**
For professionals serving deaf/hard of hearing (D/HH) individuals. Includes deaf culture, functional language and legal issues in deaf education. (PR: CIDH 501)
Pre-req: CIDH 501.
Grade Mode: Normal Grading Mode

CIDH 503 American Sign Language III **3 Credit hours**
For professionals serving deaf/hard of hearing (D/HH). Includes deaf culture, the impact of cross-cultural perspectives on D/HH children, language in the Deaf Education classroom. (PR: CIDH 502)
Pre-req: CIDH 502.
Grade Mode: Normal Grading Mode

CIDH 504 Auditory Habilitation **3 Credit hours**
Course will consist of lecture, demonstration, discussion, & student presentations. Graduate students in the course will be required to develop a web-based instructional module illustrating one of the major communication approaches used with children with hearing loss. (PR: Instructor Consent)
Grade Mode: Normal Grading Mode

CIDH 505 Intro Deaf & Hard of Hearing **3 Credit hours**
Introduction to the education of deaf and hard of hearing students (PreK-12) for prospective teachers and other professionals serving deaf/hard of hearing students. (PR: Instructor Consent)
Grade Mode: Normal Grading Mode

CIDH 506 Curr & Meth Deaf/Hard of Hear **3 Credit hours**
Study of curriculum, methods, techniques and materials used in the education of deaf/hard of hearing students. Includes information on classroom organization, classroom management.
Grade Mode: Normal Grading Mode

CIDH 601 Teach Intern & Pract I **3 Credit hours**
This course represents a residential placement in which the student works with deaf and hard of hearing students in a classroom under the direction of a licensed teacher. (PR: Instructor Consent)
Attributes: Onsite Learning Experience
Grade Mode: Credit/No Credit Grade Only

CIDH 602 Tech Intern & Pract II **3 Credit hours**
This course represents a residential placement in which the student works with deaf and hard of hearing students in a classroom under the direction of a licensed teacher. (PR: Instructor Consent)
Attributes: Onsite Learning Experience
Grade Mode: Credit/No Credit Grade Only

CIDH 607 Dev & Remed of Rdg/Writ/Disc **3 Credit hours**
Pre-req: CIDH 505.
Grade Mode: Normal Grading Mode

Curr & Inst - Literacy Educa (CIRG)

CIRG 509 Rdg Recovery Theor Concerns **6 Credit hours**
Grade Mode: Normal Grading Mode

CIRG 560 Staff Development **1-4 Credit hours**
Courses and activities designed to meet the inservice needs of public school personnel. Credit in these courses may be used for renewal and salary upgrades if approved, but may not be used for degree programs. CR\NC grading.
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

CIRG 561 Staff Development **1-4 Credit hours**
Courses and activities designed to meet the inservice needs of public school personnel. Credit in these courses may be used for certificate renewal and salary upgrades if approved but may not be used for degree programs. CR\NC grading.
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

CIRG 562 Staff Development **1-4 Credit hours**
Courses and activities designed to meet the inservice needs of public school personnel. Credit in these courses may be used for certificate renewal and salary upgrades if approved but may not be used for degree programs. CR\NC grading.
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

CIRG 563 Staff Development **1-4 Credit hours**
Courses and activities designed to meet the inservice needs of public school personnel. Credit in these courses may be used for certificate renewal and salary upgrades if approved but may not be used for degree programs. CR\NC grading.
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

CIRG 564 Staff Development **1-4 Credit hours**
Courses and activities designed to meet the inservice needs of public school personnel. Credit in these courses may be used for certificate renewal and salary upgrades if approved but may not be used for degree programs. CR\NC grading.
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

CIRG 580 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CIRG 581 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CIRG 582 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CIRG 583 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CIRG 585 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CIRG 586 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CIRG 587 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CIRG 588 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CIRG 601 Prof Guid Lit Spec **3 Credit hours**
Professional guidance for the Literacy Specialist is an elective course for candidates in the Master's in Reading Education. It supports the program's assessment
Grade Mode: Credit/No Credit Grade Only

CIRG 610 Multimodal Literacy **3 Credit hours**
This graduate class examines the theories, processes, and strategies of multi-modal classroom literacy. Intended for literacy specialists, the course investigates relevant theory, research, and practical applications to classroom literacy.
Grade Mode: Normal Grading Mode

CIRG 613 Children's Literature **3 Credit hours**
An examination of teaching methods and of children's literature that are conductive to promoting permanent interests, skills, and interests in reading for ECE and MCE.
Grade Mode: Normal Grading Mode

CIRG 614 Rdg 9-Adult Lit Skill Dev **3 Credit hours**
Analysis of the roles of the teacher in developing a reading program for the late adolescent and adult. The utilization of children's literature as a medium for bridging the content fields with the process of reading will be a major concept that will be utilized.
Grade Mode: Normal Grading Mode

CIRG 615 Writing in Literacy Curriculum **3 Credit hours**
Examine, develop, implement and evaluate traditional and electronic writing within a balanced literacy framework.
Grade Mode: Normal Grading Mode

CIRG 616 Lang Structures **3 Credit hours**
This graduate class examines an approach to spelling instruction based on an understanding of English orthography and the way students develop as sellers, readers, and writers.
Grade Mode: Normal Grading Mode

CIRG 621 Curr Issues & Prob Reading **3 Credit hours**
A seminar course especially designed to explore problems and issues in reading, K-12. Professional literature, empirical research, and practical experience will be used to identify problems and solutions. (PR: CIRG 643)
Pre-req: CIRG 615 with a minimum grade of C and CIRG 622 with a minimum grade of C and CIRG 637 with a minimum grade of C and CIRG 644 with a minimum grade of C and CIRG 653 with a minimum grade of C and CIRG 636 with a minimum grade of C.
Grade Mode: Normal Grading Mode

CIRG 623 Lit Facilitator Pract **3 Credit hours**
Practicum experiences requiring demonstration of literacy leadership including demonstration teaching, classroom support. Of literacy instruction, and developing, implementing, and evaluating the literacy curriculum within the school setting.
Pre-req: CIRG 615 with a minimum grade of C and CIRG 622 with a minimum grade of C and CIRG 637 with a minimum grade of C and CIRG 644 with a minimum grade of C and CIRG 653 with a minimum grade of C.
Attributes: Onsite Learning Experience
Grade Mode: Normal Grading Mode

CIRG 636 Developmental Reading **3 Credit hours**
Principles and practices of teaching developmental reading.
Grade Mode: Normal Grading Mode

CIRG 637 Literacy Assessment **3 Credit hours**
Study and the causes of reading difficulties, devices and techniques, and remedial methods and materials. (PR: CIRG 636 and 644)
Grade Mode: Normal Grading Mode

CIRG 642 Special Needs in Reading **3 Credit hours**
Study of research findings, methodology and instructional materials for atypical learners, illiterate adults and others.
Pre-req: CIRG 654.
Grade Mode: Normal Grading Mode

CIRG 643 Tch Strug Readers Practicum **3 Credit hours**
Clinical experiences in the diagnosis and corrective treatment of reading disabilities. (PR: CIRG 654)
Pre-req: CIRG 654.
Attributes: Onsite Learning Experience
Grade Mode: Normal Grading Mode

CIRG 644 Literacy in the Content Area **3 Credit hours**
Principles underlying the teaching of reading in the content fields.
Grade Mode: Normal Grading Mode

CIRG 651 Prin of Family Literacy **3 Credit hours**
This course examines different family literacy programs and anchors the literacy needs of family members in what is know about linguistic, cognitive, and literacy development.
Grade Mode: Normal Grading Mode

CIRG 652 Develop/Eval Fam Lit Prog **3 Credit hours**
This is a development and evaluation course in family literacy intended for active practitioners.
Grade Mode: Normal Grading Mode

CIRG 653 Literacy Acquisition **3 Credit hours**
Literacy acquisition is a foundation course open to professionals whose interests require understanding of the process involved in becoming literate.
Grade Mode: Normal Grading Mode

CIRG 654 Aligning Assess with Instruct **3 Credit hours**
Experiences in analyzing diagnostic test results, preparing diagnostic reports, and selecting appropriate materials and procedures to meet specific reading needs. (PR: CIRG 637)
Pre-req: CIRG 615 with a minimum grade of C and CIRG 622 with a minimum grade of C and CIRG 637 with a minimum grade of C and CIRG 644 with a minimum grade of C and CIRG 653 with a minimum grade of C.
Grade Mode: Normal Grading Mode

CIRG 701 Seminar I **3 Credit hours**
An investigation of research in reading that has made a difference in education, pupil achievement in reading, the role of reading, and role of the reading specialist. (PR: Master's degree, consent of instructor)
Grade Mode: Normal Grading Mode

CIRG 702 Seminar II **3 Credit hours**
An examination of research that has the potential to bring about changes in reading education and school curriculum.
Grade Mode: Normal Grading Mode

CIRG 703 Reading Tests & Techniques **3 Credit hours**
An examination of research related to the development of reading and reading-related diagnostic procedures. A detailed study will be made of standardized tests, the Informal Reading Inventory (IRI) and other similar diagnostic measures and competency-based instruments.
Grade Mode: Normal Grading Mode

CIRG 704 Advanced Instructional Tech **3 Credit hours**
A study of advanced instructional techniques in reading. Attention will be given to such concepts as self-concept, intelligence, nature/nurture, interaction, perception, physiological differences, and exceptionalities.
Grade Mode: Normal Grading Mode

CIRG 705 Applied Research **3-6 Credit hours**
Planning and implementing a study investigating aspects of reading theory. The study will necessitate deriving empirical data under field conditions.
Grade Mode: Normal Grading Mode

CIRG 706 Applied Research **3-6 Credit hours**
Planning and implementing a study investigation aspects of reading theory. The study will necessitate deriving empirical data under field conditions.
Grade Mode: Normal Grading Mode

CIRG 707 Issues in Reading **3 Credit hours**
A review of trends and issues in reading education focusing on the complexity of the reading process.
Grade Mode: Normal Grading Mode

CIRG 708 Phil & Hist of Reading Educa **3 Credit hours**
A study of the philosophical foundation of current reading programs. This course will review the historical background and progress in reading education.
Grade Mode: Normal Grading Mode

CIRG 709 Inservice: Aspect of Rdng Ed **3 Credit hours**
A field-based course designed to study the theory, preparation, presentation, and evaluation of inservice education. Emphasis will be placed on the refinement of teacher education in specialized areas of the curriculum.
Attributes: Onsite Learning Experience
Grade Mode: Normal Grading Mode

CIRG 710 Independent Study **3 Credit hours**
Individualized study of advanced topics in reading.
Grade Mode: Normal Grading Mode

Curr & Inst - Visually Impaired (CIVI)

CIVI 500 Intro Visual Impair **3 Credit hours**
introduction to educational programs and services for students with visual impairments, history, definitions, incidence and prevalence, development, psychosocial aspects, service delivery models, issues, professionalism.
Grade Mode: Normal Grading Mode

CIVI 501 Reading/Writing Strat Vis Imp **3 Credit hours**
Knowledge and skills in reading and writing the literary braille code, writing with braillewriter and slate and stylus, proofreading, interlining, basic Nemeth mathematics code, basic textbook formatting, computer translation, overview of other braille codes.
Grade Mode: Normal Grading Mode

CIVI 502 Anat Phys Human Vis Sys **3 Credit hours**
Structure and function of the eye, development of the visual system, causes and implications of eye conditions, clinical and functional, vision assessments, environmental modifications, relationship to other disabilities, and neurological aspects of visual impairment.
Grade Mode: Normal Grading Mode

CIVI 503 Assess/Prog Plan Vis Impaired **3 Credit hours**
Strategies for designing and adapting instruction for students with visual impairments in academic programs, expanded core curriculum, principles of special methods, teaching literacy and other communication skills, formal and informal assessment strategies, early childhood intervention parent involvemnt, collaboration skills.
Grade Mode: Normal Grading Mode

CIVI 504 Assess/Plan Vis Imp Add'l Dis **3 Credit hours**
Strategies for designing specialized instruction for students with visual impairments who also have severe/ multiple disabilities, interaction of sensory disabilities with other disabilities, functional curricula, alternative communication and movility systems, collaboration with classroom teachers and other specialists.
Grade Mode: Normal Grading Mode

CIVI 505 Braille **3 Credit hours**
This course will provide the student with basic skills in literary braille transcription and codes. Students will acquire competence in reading and writing braille and the use of the Perkins braillewriter, slate and stylus, and Perky Duck Software. Techniques for braille instruction of school-aged students and techniques for pre-braille activities for younger children will also be taught.
Grade Mode: Normal Grading Mode

CIVI 580 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CIVI 581 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CIVI 582 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CIVI 583 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CIVI 585 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CIVI 586 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CIVI 587 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CIVI 588 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CIVI 600 Math Methods/Visual Impairment **3 Credit hours**
An exploration of scientifically-based instructional math research will be developed and applied to the visually impaired. Emphasis will be placed on Nemeth Code and linkage to content standards and objectives.
Pre-req: CIVI 500 and CIVI 501.
Grade Mode: Normal Grading Mode

CIVI 601 Practicum Vis Imp I **1-6 Credit hours**
Three hundred documented hours of supervised practicum experiences with students with visual impairments, including those with severe/multiple disabilities ranging from infancy to early adulthood.
Attributes: Onsite Learning Experience
Grade Mode: Satisfactory/Unsatisfactory

CIVI 602 Pract in Visual Imp II **3 Credit hours**
The graduate student will complete an advanced selection of experiences in clusive and residential settings in order to demonstrate competence as an entry-level teacher.
Attributes: Onsite Learning Experience
Grade Mode: Satisfactory/Unsatisfactory

CIVI 603 Orientation & Mobility Skills **3 Credit hours**
Grade Mode: Normal Grading Mode

Curr & Inst Science Educa (CISE)

CISE 560 Staff Development **1-4 Credit hours**
Courses and activities designed to meet the inservice needs of public school personnel. Credit in these courses may be used for certificate renewal and salary upgrades if approved but may not be used for degree programs. CR\NC grading.
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

CISE 561 Staff Development **1-4 Credit hours**
Courses and activities designed to meet the inservice needs of public school personnel. Credit in these courses may be used for certificate renewal and salary upgrades if approved, but may not be used for degree programs. CR\NC grading.
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

CISE 562 Staff Development **1-4 Credit hours**
Courses and activities designed to meet the inservice needs of public school personnel. Credit in these courses may be used for certificate renewal and salary upgrades if approved but may not be used for degree programs. CR\NC grading.
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

CISE 563 Staff Development **1-4 Credit hours**
Courses and activities designed to meet the inservice needs of public school personnel. Credit in these courses may be used for certificate renewal and salary ungrades if approved, but may be used for degree programs. CR/NC grading.
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

CISE 564 Staff Development **1-4 Credit hours**
Courses and activities designed to meet inservice needs of public school personnel. Credit in these courses may be used for certificate renewal and salary upgrades if approved, but may not be used for degree programs. CR/NC grading.
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

CISE 570 Flora & Fauna K-9 **3 Credit hours**
A study of the flora, fauna, and physical geography of West Virginia. Field-based experiences will lead to a greater understanding of the forces that shaped Appalachia and flora and fauna that live here.
Grade Mode: Normal Grading Mode

CISE 571 Dev Thematic Sci Elem/Mdle Sch **3 Credit hours**
A study of the strategies and techniques needed to plan, implement and evaluate a thematic, coordinated, and integrated science program in the schools.
Grade Mode: Normal Grading Mode

CISE 572 Environ Ed Elem/Mdle Sch Tchr **3 Credit hours**
A study of man's interactions with the environment. Awareness, conservation, problem-solving and stressed using strategies and techniques appropriate for the elementary/middle school student.
Grade Mode: Normal Grading Mode

CISE 573 Chem for Elem/Middle School **3 Credit hours**
A study of the fundamental principles of chemistry focusing on developmentally appropriate methods, strategies and techniques to assist with concept development and attainment.
Grade Mode: Normal Grading Mode

CISE 574 Integrated Sci for Elem Sch **3 Credit hours**
Study an application of the concepts and activities included in an integrated science program for the elementary school.
Grade Mode: Normal Grading Mode

CISE 575 Integrated Sci/Middle School **3 Credit hours**
Study and applications of the concepts and activities included in an integrated science program for the middle school.
Grade Mode: Normal Grading Mode

CISE 576 Phy Wave Phen & Elect K-9 **3 Credit hours**
A study of the fundamental principals of physics focusing on wave phenomena and electricity for the elementary/ middle school teacher.
Grade Mode: Normal Grading Mode

CISE 577 Physics: Energy & Matter K-9 **3 Credit hours**
A study of the fundamental principles of physics focusing on energy and matter for elementary and middle school teachers.
Grade Mode: Normal Grading Mode

CISE 580 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CISE 581 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CISE 582 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CISE 583 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CISE 585 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CISE 586 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CISE 587 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CISE 588 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CISE 591 Workshop **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CISE 592 Workshop **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CISE 593 Workshop **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CISE 594 Workshop **1-4 Credit hours**
Grade Mode: Normal Grading Mode

Curr & Inst Second Lang (CISL)

CISL 550 Second Language Acquisition **3 Credit hours**
This course examines current theories of second language acquisition and their implications for second language teaching and learning.
Grade Mode: Normal Grading Mode

CISL 551 Linguistics for ESL **3 Credit hours**
This course examines major linguistic theories on firstand second-language acquisition, emphasizing acquisition of English by non-native students in prekindergarten through twelfth grade.
Grade Mode: Normal Grading Mode

CISL 552 Intercultural Comm/ESL **3 Credit hours**
This courses focuses on the interrelationship of language and culture and includes analyses of world cultures, with literature and the arts as bridges. Participants develop teaching materials for ESL classrooms.
Grade Mode: Normal Grading Mode

CISL 560 Staff Development **1-4 Credit hours**
Designed to meet the staff development needs of public school personnel. Credit may be used for certificate renewal and salary classification, if approved, but is not applicable to degree programs. CR/NC grading.
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

CISL 561 Staff Development **1-4 Credit hours**
Designed to meet the staff development needs of public school personnel. Credit may be used for certificate renewal and salary classification, if approved, but is not applicable to degree programs. CR/NC grading.
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

CISL 562 Staff Development **1-4 Credit hours**
Designed to meet the staff development needs of public school personnel. Credit may be used for certificate renewal and salary classification, if approved, but is not applicable to degree programs. CR/NC grading.
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

CISL 563 Staff Development **1-4 Credit hours**
Designed to meet the staff development needs of public school personnel. Credit may be used for certificate renewal and salary classification, if approved, but is not applicable to degree programs. CR/NC grading.
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

CISL 564 Staff Development **1-4 Credit hours**
Designed to meet the staff development needs of public school personnel. Credit may be used for certificate renewal and salary classification, if approved, but is not applicable to degree programs. CR/NC grading.
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

CISL 653 Methods ESL:Language **3 Credit hours**
Approaches to developing and assessing listening and speaking skills among second language populations at different stages in academic development, with an overview of traditional ESL methods.
Grade Mode: Normal Grading Mode

CISL 654 Methods ESL: Literacy **3 Credit hours**
Approaches to developing and assessing writing and reading skills among second language populations at different stages in academic development. Focus also includes literacy acquisition in content areas.
Grade Mode: Normal Grading Mode

CISL 655 Practicum for ESL **3 Credit hours**
A culminating practicum that involves participation in ESL curriculum evaluation and development.
Attributes: Onsite Learning Experience
Grade Mode: Credit/No Credit Grade Only

Curr Inst Special Ed (CISP)

CISP 510 Instructional Prac/Excep Child **3 Credit hours**
An introductory course on applied planning and instructional approaches for the exceptional child. The course will introduce students to validated classroom practices for the beginning classroom teacher.
Grade Mode: Normal Grading Mode

CISP 520 Intro to Exceptional Child **3 Credit hours**
An introduction to the study of children who deviate from the average in mental, physical, and social characteristics, including a study of the characteristics of such children and the adaptation of educational procedures to their abilities and disabilities.
Grade Mode: Normal Grading Mode

CISP 521 Child w Exceptionalities **3 Credit hours**
Behavioral characteristics of children with exceptional development, dynamics of family-community interaction, and attitudes toward exceptional conditions. Implications for amelioration and educational planning. (Not for Special Education majors)
Grade Mode: Normal Grading Mode

CISP 526 Introduction to Gifted **3 Credit hours**
An overview of giftedness in children, definitions, etiology, observable characteristics and implications for educational agencies.
Grade Mode: Normal Grading Mode

CISP 527 Introduction to Autism **3 Credit hours**
This is an online course designed to survey current issues in the education and treatment of students with autism spectrum disorder (ASD). The course is the first in a two-course sequence that leads to the WV Autism Teaching Endorsement.
Grade Mode: Normal Grading Mode

CISP 529 Intro to Develop Disabilities **3 Credit hours**
Introduction to the characteristics and needs of young children with developmental disabilities addressing the physical, neurological, health, and environmental problems that impact atypical grown and development.
Grade Mode: Normal Grading Mode

CISP 535 Gen Spec Ed Programming **3 Credit hours**
Address the educational/curricular needs of students with mild learning problems in the categorical areas of mental retardation, behavior disorders, and specific learning disabilities. (PR: CI 320/520 and 433/533 or 423/523 or 424/524 or permission of instructor)
Grade Mode: Normal Grading Mode

CISP 553 Characteristics Methods ID **3 Credit hours**
Characteristics and effective instructional strategies appropriate for students with intellectual disabilities are considered. Emphasis will be on evidence and research based practices to address academic achievement and functional performance.
Pre-req: CISP 520.
Grade Mode: Normal Grading Mode

CISP 554 Families of Except Students **3 Credit hours**
Principles and information designed to give the student an understanding of the needs and rights of parents of exceptional children and techniques to involve parents successfully in their child's education.
Grade Mode: Normal Grading Mode

CISP 560 Staff Development **1-4 Credit hours**
Courses and activities designed to meet the inservice needs of public school personnel. Credit in these courses may be used for certificate renewal and salary upgrades if approved, but may not be used for degree programs. CR/NC grading.
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

CISP 561 Staff Development **1-4 Credit hours**
Courses and activities designed to meet the inservice needs of public school personnel. Credit in these courses may be used for certificate renewal and salary upgrades if approved, but may not be used for degree programs. CR/NC grading.
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

CISP 562 Staff Development **1-4 Credit hours**
Courses and activities designed to meet the inservice needs of public school personnel. Credit in these courses may be used for certificate renewal and salary upgrades if approved but may not be used for degree programs. CR/NC grading.
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

CISP 563 Staff Development **1-4 Credit hours**
Courses and activities designed to meet the inservice needs of public school personnel. Credit in these courses may be used for certificate renewal and salary upgrades if approved but may not be used for degree programs. CR/NC grading.
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

CISP 564 Staff Development **1-4 Credit hours**
Courses and activities designed to meet the inservice needs of public school personnel. Credit in these courses may be used for certificate renewal and salary upgrades if approved but may not be used for degree programs. CR/NC grading.
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

CISP 580 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CISP 581 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CISP 582 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CISP 583 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CISP 585 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CISP 586 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CISP 587 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CISP 588 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CISP 600 Grant Writing in Sp Ed **3 Credit hours**
A review of the federal and state guidelines for writing grants in Special Education. The priority areas of special education in which monies are currently available will also be examined.
Grade Mode: Normal Grading Mode

CISP 601 Psych Found Giftedness **3 Credit hours**
A study of measures used to identify the gifted and interpretation of results, psychological development of the gifted and psychological pressures, problems and adjustments strategies towards mental health in the gifted child.
Grade Mode: Normal Grading Mode

CISP 602 Education Gifted Children **3 Credit hours**
Educational models, identification techniques, teaching strategies and resources availiable for gifted children. Current trends in curriculum development for the gifted are also examined. (PR: CISP 526)
Grade Mode: Normal Grading Mode

CISP 603 Field Experience: Gifted **3 Credit hours**
Supervised experiences (one semester) in field work with children who exhibit potential giftedness.
Pre-req: CISP 602.
Attributes: Onsite Learning Experience
Grade Mode: Credit/No Credit Grade Only

CISP 604 Pract Emotional Disturb **3 Credit hours**
An initial participation and observation experience with children experienceing behavior problems. Course evolves around bi-weekly seminar and selected projects.
Attributes: Onsite Learning Experience
Grade Mode: Credit/No Credit Grade Only

CISP 606 Reading Strat Except Student **3 Credit hours**
This course examines research-strategies in reading instruction for students with high-incidence disabilities. This includes application of appropriate techniques in assessment, materials, and instructional strategies for adapted reading lessons.
Grade Mode: Normal Grading Mode

CISP 607 Math Strat Except Students **3 Credit hours**
Examines mathematics curriculum, methods, and adapted materials for students with mild to moderate disabilities in K-12 classrooms. Emphasizes strategies for accessing the general education curriculum, higher-level courses, and technology.
Grade Mode: Normal Grading Mode

CISP 611 Special Ed Research I **3 Credit hours**
The study of problems related to the area of exceptionality receiving emphasis in the student's degree program. (PR: CI 603, 649, 651 or 674, EDF 621 or 625)
Grade Mode: Normal Grading Mode

CISP 615 Special Ed Research II **3 Credit hours**
As a part of the requirements for this course, the student will submit a written, bound document, which will be added to the college library collection. (PR: CISP 611)
Pre-req: CISP 611.
Grade Mode: Normal Grading Mode

CISP 626 Diagnostic-Clin Practices **3 Credit hours**
Collaborative/consultative multi-disciplinary and curriculum-based assessment process and their use in developing appropriate interventions linking instruction to content standards and objectives.
Pre-req: CISP 520.
Grade Mode: Normal Grading Mode

CISP 627 Issues Special Education **3 Credit hours**
An in-depth look at current issues effecting all areas of special education as well as issues specific to each special education category.
Grade Mode: Normal Grading Mode

CISP 629 Special Education Seminar **3 Credit hours**
Research methods and current significant findings in special education. Guest speakers. Advanced special education students only.
Grade Mode: Normal Grading Mode

CISP 645 Characteristics Methods E/BD **3 Credit hours**
Recognition of socio-emotional issues, assessment of educational needs, establishment of programs to implement behavioral change and provision of necessary modification in educational programs to remediate learning and behavioral difficulites of children.
Grade Mode: Normal Grading Mode

CISP 646 Field Exper Learn Disability **3 Credit hours**
Field Experience (practicum) affords graduate students an oopportunity to demonstrate the skill-based competences required by CEC standards and to qualify for an LD teaching license.
Pre-req: (CI 523 or CISP 523) and (CI 647 or CISP 647).
Attributes: Onsite Learning Experience
Grade Mode: Credit/No Credit Grade Only

CISP 647 Char/Mthd Spec Lrn Disabilties **3 Credit hours**
Recognition of learning disabilities, assessment of educational needs, and understanding of evidence-based teaching techniques and interventions to promote success of students with or at-risk of learning disabilities.
Pre-req: CISP 520 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CISP 648 Field Exp Phys Handicap **3 Credit hours**
Attributes: Onsite Learning Experience
Grade Mode: Credit/No Credit Grade Only

CISP 649 Field Exper Emotional Distur **3 Credit hours**
Supervised field experiences (one semester) working with children who exhibit symptoms of emotional disturbancesbehavioral disorders. (PR: CISP 520 and CISP 624)
Pre-req: (CI 524 or CISP 524) and (CI 645 or CISP 645).
Attributes: Onsite Learning Experience
Grade Mode: Credit/No Credit Grade Only

CISP 650 Sp Ed Evaluate Teach Tech **3 Credit hours**
Educational assessment and diagnostic evaluation for remediation-amelioration; advanced course for providing understanding and utilization of evaluation, teacher assessment, and analysis for programming for exceptional individuals. (PR: CISPO 626)
Grade Mode: Normal Grading Mode

CISP 651 Field Exper Mental Impairment **3 Credit hours**
Field Experience (practicum) allows candidates to demonstrate skill-based competencies required by CEC and to qualify for a teaching license in mild/moderate Mental Impairment.
Pre-req: (CI 533 or CISP 533) and (CI 553 or CISP 553).
Attributes: Onsite Learning Experience
Grade Mode: Credit/No Credit Grade Only

CISP 652 Reading & Spell for Learn Dis **3 Credit hours**
An integrated, in-depth study of current LD reading and written language programs as determined by research studies. Tutoring of LD student is required.
Grade Mode: Normal Grading Mode

CISP 655 Field Exp: Multi-Categorical **3 Credit hours**
Field Experience (Practicum) affords graduate students an opportunity to demonstrate the skill-based competencies required by CEC Standards and to qualify for the multicategorical teaching license. (PR: CISP 553, 645, and 647)
Attributes: Onsite Learning Experience
Grade Mode: Credit/No Credit Grade Only

CISP 656 Field Experience Non Public **3 Credit hours**
Field experience in a non-public setting affords graduate students an opportunity to demonstrate the skill-based competencies required by CEC Standards and to qualify for the multi-categorial teaching license.
Pre-req: CISP 520 and CISP 553 and CISP 645 and CISP 647.
Grade Mode: Credit/No Credit Grade Only

CISP 660 Grant Writing Sp Ed **3 Credit hours**
Grade Mode: Normal Grading Mode

CISP 661 Intro Preschool Sp Ed **3 Credit hours**
An overview of early childhood special education programs including historical events, legislation, the population served, program models and components and current issues and trends.
Grade Mode: Normal Grading Mode

CISP 662 Instruct Char of Autism **3 Credit hours**
This online course provides information on evidence-based practices used to teach students with autism spectrum disorder (ASD). The course is the second in a two-course sequence that leads to the WV Autism Teaching Endorsement (PR: CISP 527).
Pre-req: CISP 527 with a minimum grade of C or CI 527 with a minimum grade of C or CISP 527E with a minimum grade of C.
Grade Mode: Normal Grading Mode

CISP 663 Dev Issue Preschool Disability **3 Credit hours**
An examination of the normal development of young children, the interrelated effects of disabilities in various areas of development, and strategies for intervention.
Grade Mode: Normal Grading Mode

CISP 664 Practicum in Autism **3 Credit hours**
This course contains two components: A competency-based practicum experience with students with autism spectrum disorders (ASD) and a seminar with regular discussion and readings on practical issues concerning the education of students with ASD.
Pre-req: CISP 527 or CI 527 and CISP 662 or CI 662.
Attributes: Onsite Learning Experience
Grade Mode: Normal Grading Mode

CISP 665 Assess Preschool Sp Ed **3 Credit hours**
An overview of issues in the identification, screening and assessment of young handicapped children, specific assessment techniques for working with families and interdisciplinary teams in the assessment process.
Grade Mode: Normal Grading Mode

CISP 666 Curr/Meth Preschool Sp Ed **3 Credit hours**
A review of curriculum development and methodology used to teach young children with handicaps. Evaluation techniques, program development and management, adaptation of materials and equipment and program models are presented.
Grade Mode: Normal Grading Mode

CISP 673 Clirical: Preschool Sp Ed **3 Credit hours**
Attributes: Onsite Learning Experience
Grade Mode: Credit/No Credit Grade Only

CISP 674 Field Exp: Preschool Sp Ed **3 Credit hours**
Clinical Preschool Special Education. 3 hrs. Emphasis on infants and toddlers identified as at-risk or with special needs. Clinical field observations of practitioners (developmental specialists/service coordinator) and service providers are required.
Attributes: Onsite Learning Experience
Grade Mode: Credit/No Credit Grade Only

Cyber Forensics and Security (CFS)

CFS 500 Intro to Digital Forensics **3 Credit hours**
Introduces students to core digital forensic concepts, including data storage, imaging, the digital forensics process, common Windows artifacts, and the fundamentals of the forensic examination of digital media using AccessData.
Grade Mode: Normal Grading Mode

CFS 505 OSINT Practicum I **3 Credit hours**
Students will learn how to use advanced tools that can aid investigators in searching the Internet and resources that can be applied to domestic and international investigations.
Grade Mode: Normal Grading Mode

CFS 520 Incident Response **3 Credit hours**
Course examines forensic and investigate aspects of incident response. Topics include pre-incident preparation, developing leads, scoping an incident, data collection, forensic duplication, evidence from hosts, networks, application and enterprise environments.
Grade Mode: Normal Grading Mode

CFS 545 Mobile and Web Pen Testing **3 Credit hours**
Students will learn the advanced skills and techniques required to test mobile and web applications. This advanced pen-testing course uses a combination of lecture, real-world experiences, and hands-on exercises.
Grade Mode: Normal Grading Mode

CFS 548 Multimedia Forensics **3 Credit hours**
Course will introduce principles of multimedia forensics (images, audio, and video) and their application to cyber forensics. Practical forensics enhancement, analysis, and reporting tools and techniques are covered.
Grade Mode: Normal Grading Mode

CFS 554 Adv Network Defense **3 Credit hours**
Tools and techniques used to protect, monitor, analyze, detect and respond to unauthorized activity computers and networks.
Grade Mode: Normal Grading Mode

CFS 561 Applied Cyber Warfare **3 Credit hours**
Latest developments and advancement in cyber warfare facing nation-state and non-nation-state actors.
Grade Mode: Normal Grading Mode

CFS 562 Network Forensics **3 Credit hours**
Examination of techniques and tools used to investigate, search, collect, analyze and report on network based breaches and events.
Grade Mode: Normal Grading Mode

CFS 564 Network and Cyber Crime **3 Credit hours**
Examines fundamental security concepts, protocols, and procedures commonly in use today. Topics include governance, access control, cryptography, physical security, security architecture, and application development security.
Grade Mode: Normal Grading Mode

CFS 567 Mobile Device Forensics **3 Credit hours**
Identification, preservation, collection, analysis, and reporting techniques and tolls used in the forensic examination of mobile devices such as mobile phones, tablets and GPS units.
Grade Mode: Normal Grading Mode

CFS 581 Special Topics **3 Credit hours**
Study of emerging and advanced topics in Cyber Forensics and Security. Topics vary with instructor and change from one semester to another.
Grade Mode: Normal Grading Mode

CFS 630 Cyber Threat Intelligence **3 Credit hours**
A detailed study of the cyber threat intelligence process and its products. Topics include threat modeling, structured analysis, adversary groups, tactical, operations, and strategic threat intelligence.
Grade Mode: Normal Grading Mode

CFS 640 Adv Cyber Forensics **3 Credit hours**
An advanced study of cyber forensics focusing on artifacts from a variety of evidentiary sources and environments. Topics include Windows and Apple computer systems as well as mobile and network devices.
Grade Mode: Normal Grading Mode

CFS 650 Adv Cyber Defense **3 Credit hours**
An advanced study cyber defense, including coverage of topics such as social engineering, authorization techniques, security models, trusted computing, network architecture security, operating system security, endpoint security, database security, and physical security.
Grade Mode: Normal Grading Mode

CFS 660 Red Team **3 Credit hours**
Students will learn how to plan and execute and end-to-end adversary emulation and build a red team program, leverage threat intelligence to map against adversary tactic and tool automation.
Grade Mode: Normal Grading Mode

CFS 665 Cyber Sec IoT and ICS **3 Credit hours**
Students will learn the tools and techniques to defend IoT and ICS systems that run teh Power Grid and other critical systems.
Grade Mode: Normal Grading Mode

CFS 670 Practicum **3-6 Credit hours**
Students will gain experience and practical knowledge working with professionals in the field of Cyber Forensics and Security as well as gaining real-world experience.
Attributes: Onsite Learning Experience
Grade Mode: Normal Grading Mode

CFS 675 Research in CFS **1-6 Credit hours**
Students will plan, implement, research and present a solution to a real-world problem within cyber forensics & defense, demonstrating their technical and professional skills. Must be pre-approved before registering.
Attributes: Thesis
Grade Mode: Normal Grading Mode

CFS 680 Special Topics **3 Credit hours**
Grade Mode: Normal Grading Mode

CFS 690 Capstone **3 Credit hours**
This capstone course is the culminating experience for the Masters Degree in Cyber Forensics and Security. This course builds on the concepts covered within the program of study.
Attributes: Onsite Learning Experience
Grade Mode: Normal Grading Mode

Dermatology (DERM)

DERM 800 Clinical Dermatology **1-18 Credit hours**
You will develop the ability to examine a core curriculum of skin diseases, understand the methods of differential diagnosis and techniques for skin testing, and formulate a diagnostic and therapeutic plan of treatment.
Grade Mode: Pass/Fail Grading Mode

DERM 827 Dermatology Sub-I **1-18 Credit hours**
This selective Dermatology course is organized as a sub-internship to provide medical students with key dermatology experience to prepare the students for future careers in dermatology and prepare for dermatology residency.
Grade Mode: Pass/Fail Grading Mode

DERM 858 In-State Externship in Derm **1-18 Credit hours**
Clinical course to allow students to complete clinical training at approved sites within the State of West Virginia that is not an MUSOM site.

DERM 868 Out-of-State Extern in Derm **1-18 Credit hours**
Clinical course to allow students to complete clinical training at approved sites outside the State of West Virginia that is not an MUSOM site.
Grade Mode: Pass/Fail Grading Mode

Dietetics (DTS)

DTS 508 Nutrition Cardiac Disease **3 Credit hours**
Role of nutrition in cardiac rehabilitation. Teaching methods in working with families to improve patient compliance.
Grade Mode: Normal Grading Mode

DTS 580 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

DTS 581 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

DTS 585 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

DTS 586 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

DTS 670 Adv Med Nutrition Therapy I **3 Credit hours**
Pathophysiology, medical nutrition therapy, and current research of common and unique disease states and conditions.
Grade Mode: Normal Grading Mode

DTS 671 Sports Nutrition **3 Credit hours**
An in-depth investigation of sports nutrition, with emphasis on nutrient functions and their roles in physical activity as well as nutrition counseling strategies for athletes.
Grade Mode: Normal Grading Mode

DTS 672 Diabetes & Nutrition Mngt **3 Credit hours**
In-depth investigation of diabetes mellitus, including disease state, types, diagnosis and treatment options, medications to treat, exercise, complications, and medical nutrition therapy and counseling strategies.
Grade Mode: Normal Grading Mode

DTS 673 Administrative Dietetics **3 Credit hours**
Overview of management/administrative concepts for directing resources within a variety of food and nutritional service/ programs. Planning, implementing, and evaluation techniques to measure organizational performance. Applied research in dietetics. (PR: Dietetic Internship Students or permission)
Grade Mode: Normal Grading Mode

DTS 674 Food Allergies & Intoler **3 Credit hours**
Advanced study of food allergies and intolerances and the roles of nutrition in food allergy prevention and lifestyle management.
Grade Mode: Normal Grading Mode

DTS 675 Dietetic Internship I **3 Credit hours**
Supervised practice experience focusing on the nutritional screening assessment and education of individuals and groups across the lifespan in a variety of community and long-term settings.
Grade Mode: Normal Grading Mode

DTS 676 Dietetic Internship II **3 Credit hours**
Supervised practice experience focusing on the procurement, production, distribution, and service within school and hospital based food service management systems.
Pre-req: DTS 675 with a minimum grade of C.
Grade Mode: Normal Grading Mode

DTS 677 Dietetic Internship III **3 Credit hours**
Supervised practice experience focusing on skills required to become a dietitian in a clinical setting. Nutritional screening assessment and education of individuals with complex medical conditions will be emphasized.
Pre-req: DTS 676.
Grade Mode: Normal Grading Mode

DTS 679 Adv Med Nutrition Therapy II **3 Credit hours**
The continued study of pathophysiology, medical nutrition therapy, and current research of common and unique disease states and conditions.
Pre-req: DTS 670 with a minimum grade of C.
Grade Mode: Normal Grading Mode

DTS 681 Thesis **1-6 Credit hours**
Attributes: Thesis
Grade Mode: Normal Grading Mode

DTS 690 Sem DTS Research Comm **1-4 Credit hours**
Extensive reading and reports from current literature in selected areas of dietetics.
Grade Mode: Normal Grading Mode

Doctor-Business Administration (DBA)

DBA 701 Res Bus & Econ Dev **3 Credit hours**
This course describes key business and economic research issues. It shows how matters such as jobs, unemployment, policymaking, budget, taxes, and public investment apply to business research and practice.
Grade Mode: Normal Grading Mode

DBA 702 Cur Research Bus Innovation **3 Credit hours**
Students will be introduced to contemporary research and pedagogical topics in business innovation including design thinking, disruptive innovation, corporate innovation, and the pedagogy of business innovation.
Grade Mode: Normal Grading Mode

DBA 703 Cur Research Issues Bus Tech **3 Credit hours**
This course covers research topics related to business technology including investments, strategy, economic value, cybersecurity, privacy, adoption, diffusion, and development methods. Students will explore the academic literature in this area.
Grade Mode: Normal Grading Mode

DBA 704 Research Global & Intl Bus **3 Credit hours**
Students are exposed to key topics in global and international business. They will investigate academic research on multinationalism, global competition and strategic management, and global marketing to develop research questions.
Grade Mode: Normal Grading Mode

DBA 705 Ped in Bus Schools **3 Credit hours**
this course focuses on pedagogical practices in business schools including both traditional and innovative teaching methods. Students will understand effective teaching and learning practices in business schools.
Grade Mode: Normal Grading Mode

DBA 710 Bus Research Design Method **3 Credit hours**
Students will be introduced to business research designs, including exploratory, descriptive, casual, experimental, case study, cross-sectional, and longitudinal research designs. Students will be exposed to both quantitative and qualitative methods.
Grade Mode: Normal Grading Mode

DBA 711 Bus Quant Methods I **3 Credit hours**
This course covers techniques and applications of regression analysis and ANOVA models using statistical software. Students will apply the methods to real world problems and making valid statistical conclusions.
Grade Mode: Normal Grading Mode

DBA 712 Bus Quant Method II **3 Credit hours**
The purpose of this course is to familiarize students with conceptual bases of SEM as well as applications necessary to undertake doctoral-level research and to answer questions of casual interest.
Grade Mode: Normal Grading Mode

DBA 713 Bus Quant III **3 Credit hours**
This course extends the basic linear model frameworks learned in DBA 711 and 712 to non-linear regressions and non-parametric statistical tools and data-driven techniques.
Grade Mode: Normal Grading Mode

DBA 714 Qual Methods **3 Credit hours**
This course introduces major qualitative approaches in business research including case study research, ethnography, narrative inquiry, discourse analysis, grounded theory, text analysis, and action research.
Grade Mode: Normal Grading Mode

DBA 720 Research Sem in Man Acct **3 Credit hours**
This course includes a study of managerial accounting research topics and methods. Students will review and critically analyze research articles on budgeting, performance measures, enterprise risk management, innovation, and methodologies.
Grade Mode: Normal Grading Mode

DBA 721 Research Sem in Audit **3 Credit hours**
Seminal and contemporary research articles on the audit environment, auditor decision making, auditor independence, the effects of auditing on the financial reporting process, and auditor fees will be introduced.
Grade Mode: Normal Grading Mode

DBA 722 Research Sem in Fin Acct **3 Credit hours**
Students in this course will learn to critically analyze financial accounting research to identify potential areas for future study that can advance the current body of knowledge.
Grade Mode: Normal Grading Mode

DBA 730 Research Sem in HC Delivery **3 Credit hours**
This course studies health care delivery research topics. Students will review and critically analyze literature on integrated health care delivery systems, clinical effectiveness, innovative technologies, workforce issues, and other topics.
Grade Mode: Normal Grading Mode

DBA 731 Res Mgr Epidemiology **3 Credit hours**
This course provides insight into research topics that explore managerial epidemiology including disease control and transmission; population health measurement; planning and quality management; incidence, prevalence, morbidity, and mortality; and others.
Grade Mode: Normal Grading Mode

DBA 732 Res Sem HC Inform Mgt **3 Credit hours**
This course addresses contemporary research issues in health care information management research. Research relating to electronic health records, data analytics, safety, privacy, and health information technology will be discussed.
Grade Mode: Normal Grading Mode

DBA 740 Research Sem HRM **3 Credit hours**
This seminar is a review and analysis of the theories, models, and concepts utilized in the research of organizational behavior and human resource management.
Grade Mode: Normal Grading Mode

DBA 741 Res Op Bus Models & Strat **3 Credit hours**
This course addresses issues in operations, business models, and strategic management with extensive reviews of research areas such as sustainable operations, strategic positioning, organizational structure and performance, and corporate governance.
Grade Mode: Normal Grading Mode

DBA 742 Res Sem in Entr, Sm Bus, & FF **3 Credit hours**
Students in the seminar will study seminal and current research on the idiosyncratic nature of entrepreneurship, small business, and family firms. They will discuss theory and make connections among findings.
Grade Mode: Normal Grading Mode

DBA 790 Dissertation Design **3-6 Credit hours**
This course is an individualized scholarly investigation of an important topic in business. It prepares students for the dissertation process and focuses on issues such as dissertation committee selection. Repeatable.
Grade Mode: Credit/No Credit Grade Only

DBA 791 Dissertation **1-18 Credit hours**
Coursework supports and guides doctoral candidates in their research and the development and defense of the dissertation. The course provides individual time with members of the student's dissertation committee. Repeatable.
Attributes: Thesis
Grade Mode: Credit/No Credit Grade Only

Early Childhood Education (ECE)

ECE 530 Preschool Curriculum/Methods **3 Credit hours**
Historical and contemporary curriculum and methods for preschool children with emphasis on current best practices.
Grade Mode: Normal Grading Mode

ECE 535 Adm Early Child Programs **3 Credit hours**
This course examines the administration and educational aspects of early childhood education programs. Classroom observation is required.
Grade Mode: Normal Grading Mode

Economics (ECN)

ECN 501 Economic Analysis **3 Credit hours**
A survey of essential economics principles and techniques, including both microeconomic and macroeconomics topics. For students who have not had a two semester principles of economics sequence as undergraduates.
Grade Mode: Normal Grading Mode

ECN 515 Regional Economics **3 Credit hours**
A study of location theory and regional development within a framework of economic theory.
Grade Mode: Normal Grading Mode

ECN 561 Economic Educ Workshop **3 Credit hours**
Intensive review of subject matter and teaching methods in economics for elementary and high school teachers.
Grade Mode: Normal Grading Mode

ECN 580 Special Topics **1-4 Credit hours**
Members of the department may teach, when necessary, any economics subject not listed amoung the current course offerings.
Grade Mode: Normal Grading Mode

ECN 630 Managerial Economics **3 Credit hours**
Utilization of microeconomic theory and optimization techniques for management decision making.
Pre-req: (MGT 601 with a minimum grade of C or MGT 500 with a minimum grade of C) and ECN 501 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ECN 650 Special Topics **1-3 Credit hours**
Members of the department may teach, when necessary, any economics subject not listed among current course offerings.
Grade Mode: Normal Grading Mode

ECN 651 Special Topics **1-3 Credit hours**
Members of the department may teach, when necessary, any economics subject not listed among current course offerings.
Grade Mode: Normal Grading Mode

ECN 660 Independent Study **1-4 Credit hours**
Independent study of a specific nature under the supervision of a qualified faculty member. Hours of credit are determined by the magnitude of the project. (PR: Permission of division head and of GSM academic advisor)
Grade Mode: Normal Grading Mode

ECN 681 Thesis **3-6 Credit hours**
(PR: Permission of division head and full M.B.A. admissions)
Attributes: Thesis
Grade Mode: Normal Grading Mode

ECN 699 Bus Policy & Strategy **3 Credit hours**
Study of administrative decisions making under conditions of uncertainty. Policy constuction at top administrative level with emphasis on strategy with consideration of major functions of the business organization.
Grade Mode: Normal Grading Mode

Educational Foundations (EDF)

EDF 502 Psy Mid Childhood Student **3 Credit hours**
A course in the study of developmental principals relating to the physical, cognitive, social, and moral development of the middle childhood student 10-14 years old.
Grade Mode: Normal Grading Mode

EDF 513 Human Growth Dev Birth-8 Yr **3 Credit hours**
This course examines the relationship between developmental principles in childhood and educational practice.
Grade Mode: Normal Grading Mode

EDF 514 Human Growth Dev Adolescence **3 Credit hours**
This course examines the relationship between developmental principles in adolescence and educational practice.
Grade Mode: Normal Grading Mode

EDF 515 History Modern Education **3 Credit hours**
Our debt to the ancient Hebrews, Greeks, and Romans. Emphasis also is placed upon the movements since the beginning of the Renaissance.
Grade Mode: Normal Grading Mode

EDF 537 MAT Level I Clinical Exper **0 Credit hours**
Thirty-five hours public school clinical experience in middle/secondary schools designed to provide an opportunity for MAT students to work with faculty, staff and students in a teaching environment. (CR: CI 515)
Co-req: CI 515
Attributes: Onsite Learning Experience
Grade Mode: Credit/No Credit Grade Only

EDF 580 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

EDF 581 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

EDF 582 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

EDF 583 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

EDF 585 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

EDF 586 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

EDF 587 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

EDF 588 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

EDF 610 Trends & Issues in Education **3 Credit hours**
An investigation of current trends and issues in education through extensive reading, research and discussion. Implications for schools, classrooms, and teachers are the focus of the course.
Grade Mode: Normal Grading Mode

EDF 612 Educational Evaluation **3 Credit hours**
A study of the fundamental skills needed to evaluate educational progress at the individual, classroom, program, and school levels.
Grade Mode: Normal Grading Mode

EDF 615 Hist of Education in US **3 Credit hours**
Development of public and private educational systems in the United States.
Grade Mode: Normal Grading Mode

EDF 616 Adv Studies Human Develop **3 Credit hours**
The nature of human growth and development from infancy to adulthood.
Grade Mode: Normal Grading Mode

EDF 617 Multiple Regression **3 Credit hours**
A first course in Multiple Regression Analysis and its application to educational research. (PR: EDF 517 or Equivalent)
Grade Mode: Normal Grading Mode

EDF 618 Multilevel Analysis **3 Credit hours**
An introduction to applied multilevel analysis and growth curve modeling for nested educational data. The nested data may have a repeated measures dependent variable.
Grade Mode: Normal Grading Mode

EDF 619 Educational Psychology **3 Credit hours**
Study of learning theories and their applications to teaching.
Grade Mode: Normal Grading Mode

EDF 620 Mixed Methods Research **3 Credit hours**
Integrates quantitative and qualitative approaches and applications to research, couching these models within developing theories for and approaches to mixed methods research in education and closely related fields.
Grade Mode: Normal Grading Mode

EDF 621 Educ Research & Writing **3 Credit hours**
Research methods and techniques and their application.
Grade Mode: Normal Grading Mode

EDF 622 Action Research in Education **3 Credit hours**
Study of action research as a systematic method carried out by practitioners to improve educational practice.
Grade Mode: Normal Grading Mode

EDF 625 Qualitative Research Educ **3 Credit hours**
Study of qualitative research methods: understanding historical and philosophical foundations of qualitative research and developing expertise in qualitative research strategies including participant observation, interviewing and inductive content analysis of data.
Grade Mode: Normal Grading Mode

EDF 630 Comparative Education **3 Credit hours**
The study of the origins, nature, scope, basic literature and methodology of comparative education.
Grade Mode: Normal Grading Mode

EDF 636 Advanced Classroom Assessment **3 Credit hours**
History, philosophy and advanced statistical methods for testing, measuring and evaluating pupil behavior are studied.
Grade Mode: Normal Grading Mode

EDF 637 MAT Level II Clinical Exper **0 Credit hours**
Seventy-five hour secondary public school experience provides opportunity for preservice, master's-level teachers to put theory into classroom practice through observation, participation, reflection, individual/small group teaching, and up-front classroom teaching. (PR: EDF 537 and CI 515)
Pre-req: EDF 537 with a minimum grade of C and CI 515 with a minimum grade of C.
Attributes: Onsite Learning Experience
Grade Mode: Credit/No Credit Grade Only

EDF 640 Literature **1-3 Credit hours**
A program of reading, either extensive or intensive, and reports on a group of outstanding conributions to education; readings selected with guidance of advisor. Only one registration for this course is permitted.
Grade Mode: Normal Grading Mode

EDF 641 Seminar **2-3 Credit hours**
A guided program of readings, reports and discussions. No student may register for this course a second time.
Grade Mode: Normal Grading Mode

EDF 660 Philosophy of Education **3 Credit hours**
Surveys basic philosophy schools and concepts and their application to educationsal practice.
Grade Mode: Normal Grading Mode

EDF 665 Sociology of Amer Schools **3 Credit hours**
American school organizational patterns interpreted sociologically; role of power and bureaucracy, social and cultural change, stratification and social mobility, and values; analysis of school rituals and ceremonies.
Grade Mode: Normal Grading Mode

EDF 676 Statistical Methods **3 Credit hours**
A foundation course in descriptive and inferential statistics as applied in education and the social sciences.
Grade Mode: Normal Grading Mode

EDF 677 MAT Level III Clinical Exper **3-9 Credit hours**
Culminating clinical experience through directed activity in a clinical setting for MAT/PBC student.
Pre-req: EDF 537 with a minimum grade of C and EDF 637 with a minimum grade of C.
Attributes: Onsite Learning Experience
Grade Mode: Credit/No Credit Grade Only

EDF 679 Problem Report **3 Credit hours**
The preparation of a written report on a research problem, experiment or field project in education. This report is not a thesis.
Grade Mode: Credit/No Credit Grade Only

EDF 681 Thesis **3-6 Credit hours**
May be taken for 3 hours of credit by students whose reports in 679 were excellent and are of such character as to warrant further research. Students completing 679 and 681 for a total of 6 hours may qualify for the master's degree by earning an additional 26 hours of credit. Students completing 681 must defend their thesis in an oral examination.
Attributes: Thesis
Grade Mode: Normal Grading Mode

EDF 703 Research Design **3 Credit hours**
The purpose of this doctoral research methods course is to prepare College of Education doctoral students to design and carry out research at the doctoral level (PR: Admission to EdD Program)
Grade Mode: Normal Grading Mode

EDF 711 Survey Research in Education **3 Credit hours**
Advanced research, theories, methods and procedures for conducting survey research in education.
Grade Mode: Normal Grading Mode

EDF 719 Intro to Doctoral Studies **3 Credit hours**
This course is designed to introduce students to the tasks and processes involved in the completion of the doctoral requirements (PR: Admission to the Cooperative Doctoral Program)
Grade Mode: Normal Grading Mode

EDF 725 Adv Qualitative Research **3 Credit hours**
Advanced study of selected topics in qualitative research. Emphasis on application of qualitative research knowledge and skills.
Grade Mode: Normal Grading Mode

EDF 776 Comp Analysis in Doctoral Res **3 Credit hours**
This course provides the development of computer-based skills and competencies for applying statistical concepts and procedures when conducting research. (PR: EDF 676 or similar)
Pre-req: EDF 676 with a minimum grade of C or EDF 517 with a minimum grade of C.
Grade Mode: Normal Grading Mode

Electrical Engineering (EE)

EE 502 Instrumentation **3 Credit hours**
Grade Mode: Normal Grading Mode

EE 503 Power Systems **3 Credit hours**
Grade Mode: Normal Grading Mode

EE 504 Principles and Practices-EE **2 Credit hours**
Grade Mode: Normal Grading Mode

EE 510 Design Digital Systems **3 Credit hours**
This course provides fundamental understanding of Digital circuits. Students learn the essentials of digital circuit operation, design and simulate digital circuits using the techniques of practicing electrical and computer engineers.
Grade Mode: Normal Grading Mode

EE 511 Analog Computation **3 Credit hours**
Grade Mode: Normal Grading Mode

EE 514 Linear Systems **3 Credit hours**
Grade Mode: Normal Grading Mode

EE 515 Digital Signal Processing **3 Credit hours**
Grade Mode: Normal Grading Mode

EE 529 Linear Systems & Control **3 Credit hours**
The course provides a rigorous introduction to the analysis and control of linear dynamical systems in the time domain. The course introduces the fundamentals of linear spaces and linear operator theory.
Grade Mode: Normal Grading Mode

EE 530 Cyber-Physical Systems **3 Credit hours**
This course provides an introduction to modeling and analysis of cyber-physical systems. Several models of continuous-time systems and discrete-time systems are introduced.
Grade Mode: Normal Grading Mode

EE 535 Power System Protection **3 Credit hours**
This course covers the power system faults and application of relays for power system protection. Symmetrical components as applied fault currents. Introduction to digital filtering, microprocessor, computer simulation for relays.
Grade Mode: Normal Grading Mode

EE 585 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

EE 586 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

EE 587 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

EE 588 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

EE 601 Power Systems Analysis **3 Credit hours**
Grade Mode: Normal Grading Mode

EE 602 Random Signals & Noise **3 Credit hours**
This course provides an introduction to the fundamentals of random variables, random signals, and simulation of random phenomena.
Grade Mode: Normal Grading Mode

EE 603 Protectve Relaying in Powr Sys **3 Credit hours**
Grade Mode: Normal Grading Mode

EE 604 Electrical Machinery **3 Credit hours**
Grade Mode: Normal Grading Mode

EE 605 Comptr Meth in Power Sys Anly **3 Credit hours**
Grade Mode: Normal Grading Mode

EE 606 Electrical Analysis **3 Credit hours**
This course covers Laplace transform for boundary-value problem, applications to control theory, frequency response of ordinary differential equations, linear algebra techniques; eigenvalue analysis of linear systems and in multivariate optimization.
Grade Mode: Normal Grading Mode

EE 607 Adv Electrical Engr **3 Credit hours**
This course covers complex functions, complex integration, vectors, matrices, functions of matrices, Cayley-Hamilton theorem, state-space modeling, optimization techniques, least squares technique, total least squares, and numerical techniques.
Grade Mode: Normal Grading Mode

EE 608 Research Methods **3 Credit hours**
Overview of research methods in engineering. Research theory, design, ethics, and practice. Research plan and proposal. Experimental, numerical, and analytical research. Reviewing literatures, collect and analyze data quantitatively and qualitatively.
Grade Mode: Normal Grading Mode

EE 611 Digital Design **3 Credit hours**
This course covers the CMOS circuits. Design approaches with emphasis placed on structured full custom design, MOS device, critical interconnect and gate characteristics. CMOS logic design from transistor to fabrication.
Grade Mode: Normal Grading Mode

EE 615 Real Time Systems **3 Credit hours**
This course covers the Designing real-time embedded systems from a hardware and software perspective. Communications and signal processing systems. Applications to seismic monitoring, process control, and biomedical systems.
Grade Mode: Normal Grading Mode

EE 618 Data & Comm Networks **3 Credit hours**
This course introduces the underlying concepts behind networking using the internet and its protocols as examples.
Grade Mode: Normal Grading Mode

EE 624 Wireless Communication **3 Credit hours**
This course introduces fundamental technologies for wireless communication.
Grade Mode: Normal Grading Mode

EE 630 Robust Control **3 Credit hours**
Linear systems, norms for signals and systems, stability and performance, uncertainty and robustness, parameterization of stabilizing controllers, algebraic Riccati equations, H2 control, and H infinity control.
Grade Mode: Normal Grading Mode

EE 631 Optimal Control **3 Credit hours**
The course introduces the theory of Optimal Control. It covers evaluation methods for control signals that satisfy some physical constraints and minimize or maximize some performace measures.
Grade Mode: Normal Grading Mode

EE 636 Power System Operation **3 Credit hours**
This course covers modern power systems, operational, control problems, solution techniques. State estimation, contingency analysis, load-frequency control and automatic generation control, load flow analysis and external equivalents for steady-state operations.
Grade Mode: Normal Grading Mode

EE 638 Nonlinear Sys & Control **3 Credit hours**
The course provides a rigorous introduction to the analysis and control of nonlinear dynamical systems in time domain.
Grade Mode: Normal Grading Mode

EE 639 Renew Energy & Dist Generation **3 Credit hours**
This course covers the fundamentals of energy and sustainability; power efficiency; hydro, wind, solar, fuel systems; Converters and controllers for integration of renewable energy sources; Smart grid, hybrid generation systems.
Grade Mode: Normal Grading Mode

EE 642 Pattern Recognition 1 **3 Credit hours**
Grade Mode: Normal Grading Mode

EE 643 Pattern Recognition 2 **3 Credit hours**
Grade Mode: Normal Grading Mode

EE 650 Special Topics **1-4 Credit hours**
Subject matter to be selected from topics of current interest.
Grade Mode: Normal Grading Mode

EE 651 Special Topics **1-4 Credit hours**
Subject matter to be selected from topics of current interest.
Grade Mode: Normal Grading Mode

EE 652 Special Topics **1-4 Credit hours**
Subject matter to be selected from topics of current interest.
Grade Mode: Normal Grading Mode

EE 653 Special Topics **1-4 Credit hours**
Subject matter to be selected from topics of current interest.
Grade Mode: Normal Grading Mode

EE 656 Semiconductr Switchng Circuits **3 Credit hours**
Grade Mode: Normal Grading Mode

EE 658 Linear Syst-State Space Appro **3 Credit hours**
Grade Mode: Normal Grading Mode

EE 661 Continuous & Digital Cntrl Sys **3 Credit hours**
Grade Mode: Normal Grading Mode

EE 681 Microprocessors-Prin & Appl 1 **3 Credit hours**
Grade Mode: Normal Grading Mode

EE 682 Microprocessors-Prin & Appl 2 **3 Credit hours**
Grade Mode: Normal Grading Mode

EE 683 Microcomputer-Based Design **3 Credit hours**
Surface and subsurface geology, geotechnical properties of soil and rock. Geotechnical engineering design aspects of landfills, groundwater barriers, tunneling. Mechnics of ground movements, sediment and erosion control. (PR: Engineering or Geology degree)
Grade Mode: Normal Grading Mode

EE 684 Unknown **3 Credit hours**

EE 685 Independent Study **1-4 Credit hours**
Independent study in which a student meets regularly with a faculty member to discuss assignments.
Grade Mode: Normal Grading Mode

EE 686 Independent Study **1-4 Credit hours**
Independent study in which a student meets regularly with a faculty member to discuss assignments.
Grade Mode: Normal Grading Mode

EE 687 Independent Study **1-4 Credit hours**
Independent study in which a student meets regularly with a faculty member to discuss assignments.
Grade Mode: Normal Grading Mode

EE 688 Independent Study **1-4 Credit hours**
Independent study in which a student meets regularly with a faculty member to discuss assignments.
Grade Mode: Normal Grading Mode

EE 690 Special Topics **1-6 Credit hours**
Grade Mode: Normal Grading Mode

EE 698 Design Project **3 Credit hours**
The course introduces the principles of product design: specifications, evaluation of design alternatives, technical reports and oral presentations. Intellectual property, industry standards and conventions, engineering economics, reliability, safety, engineering ethics.
Grade Mode: Normal Grading Mode

EE 699 Thesis **1-6 Credit hours**
This represents the course designation for a Master's Degree Research Thesis. Successful completion of a thesis fulfills the research requirement for the M.S. degree in Electrical Engineering.
Attributes: Thesis
Grade Mode: Normal Grading Mode

EE 790 Advanced Independent Study **3 Credit hours**

Emergency Medical Services (EMS)

EMS 710 Emergency Medicine **1-18 Credit hours**
Grade Mode: Pass/Fail Grading Mode

EMS 720 Advanced Cardiac Life Support **1 Credit hour**
ACLS: basic and advanced cardiac life support per American Heart Association Protocol.
Grade Mode: Pass/Fail Grading Mode

EMS 721 Essentials of EKG **1 Credit hour**
To prepare students for ACLS
Grade Mode: Pass/Fail Grading Mode

EMS 744 Required Emergency Medicine **1-18 Credit hours**
This required course will allow students to experience the workings of Emergency Medicine.
Grade Mode: Pass/Fail Grading Mode

EMS 745 Residency Survival Skills **1-18 Credit hours**
To assist graduating students prepare for residency
Grade Mode: Pass/Fail Grading Mode

EMS 780 Elective Special Projects **1 Credit hour**
Grade Mode: Normal Grading Mode

EMS 800 Adv Skills in Clinical Epidemi **1-18 Credit hours**
Grade Mode: Normal Grading Mode

EMS 858 In-State Externship in Em Med **1-18 Credit hours**
Clinical course to allow students to complete clinical training at approved sites within the State of West Virginia that is not a MUSOM site.
Grade Mode: Pass/Fail Grading Mode

EMS 868 Emergency Med Externship **1-18 Credit hours**
Grade Mode: Pass/Fail Grading Mode

EMS 888 Rural Emergency Medicine **1-18 Credit hours**
Grade Mode: Normal Grading Mode

Engineering & Science (ENGR)

ENGR 502 Microcomputer Wordprocessing **1 Credit hour**

ENGR 503 Microcomputer Telecommunicati **1 Credit hour**

ENGR 504 Microcomputer Database Appl **1 Credit hour**

ENGR 509 Microcomputer Applications **3 Credit hours**

ENGR 511 Technical Seminars **3 Credit hours**

ENGR 570 Finite Elements **3 Credit hours**
Theory and applications of the finite element method to problems in the area of static and dynamic structural analysis, heat transfer, fluids, and analogous solution.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

ENGR 610 Applied Statistics **3 Credit hours**
Practical application of statistical techniques to decision-making, forecasting, optimization, experimental design. Interpretation of data using central tendency and dispersion, t-test, F-test, variance analysis, correlation, and linear regression.
Grade Mode: Normal Grading Mode

ENGR 620 Computer Applications **3 Credit hours**
Introduction to current software technology to solve problems of interest to technical professionals. Covers the use of tables, databases, modeling, curve fitting, and solution of equations.
Grade Mode: Normal Grading Mode

ENGR 650 Special Topics **1-4 Credit hours**
Formal study of engineering topics of current interest. (PR: Consent)
Grade Mode: Normal Grading Mode

ENGR 651 Special Topics **1-4 Credit hours**
Formal study of engineering topics of current interest. (PR: Consent)
Grade Mode: Normal Grading Mode

ENGR 652 Special Topics **1-4 Credit hours**
Formal study of engineering topics of current interest. (PR: Consent)
Grade Mode: Normal Grading Mode

ENGR 653 Special Topics **1-4 Credit hours**
Formal study of engineering topics of current interest. (PR: Consent)
Grade Mode: Normal Grading Mode

ENGR 670 Advanced Stress Analysis **3 Credit hours**
Three-dimensional stress and strain, failuer criteria, advanced topics in structural mechanics, energy methods, introduction to the theory of elasticity, fundamentals of fracture mechanics.
Grade Mode: Normal Grading Mode

ENGR 682 Research **1-6 Credit hours**
Completion of research under the supervision of a faculty member. Six semester hours of credit in research are applied toward the Thesis Option in the engineering MS degrees.
Grade Mode: Credit/No Credit Grade Only

ENGR 685 Independent Study **1-4 Credit hours**
An approved study of special interest concerning engineering under the supervision of a faculty member. (PR: Consent)
Grade Mode: Normal Grading Mode

ENGR 686 Independent Study **1-4 Credit hours**
An approved study of special interest concerning engineering under the supervision of a faculty member. (PR: Consent)
Grade Mode: Normal Grading Mode

ENGR 687 Independent Study **1-4 Credit hours**
An approved study of special interest concerning engineering under the supervision of a faculty member. (PR: Consent)
Grade Mode: Satisfactory/Unsatisfactory

ENGR 688 Independent Study **1-4 Credit hours**
An approved study of special interest concerning engineering under the supervision of a faculty members. (PR: Consent)
Grade Mode: Normal Grading Mode

ENGR 695 Internship in Engineering **3 Credit hours**
Supervised on-the-job experience. The student will work in a technology or engineering company or department with an organization. (PR: Permission)
Attributes: Onsite Learning Experience
Grade Mode: Credit/No Credit Grade Only

ENGR 699 Comprehensive Project **3 Credit hours**
Completion of comprehensive project under the supervision of a faculty member. Includes final written submittal and public oral presentation. Fulfills engineering MS requirement for Project Option.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

ENGR 701 Research Methods for Doc **3 Credit hours**
An overview of research methodology, including basic concepts employed in quantitative and qualitative research, defining research problems, collecting, analyzing, recording, and interpreting data to prepare a proposal.
Grade Mode: Credit/No Credit Option

ENGR 702 Dissertation Research **1-12 Credit hours**
This course is to develop a dissertation with substantial research to contribute to the field of study under the supervision of a dissertation advisor and dissertation committee.
Pre-req: ENGR 701 with a minimum grade of C.
Grade Mode: Credit/No Credit Option

Engineering Management (EM)

EM 580 Special Topics **3 Credit hours**
Formal study of engineering management topics of current interest.
Grade Mode: Normal Grading Mode

EM 620 Mgt Tech HR & Orgs **3 Credit hours**
Principles leading to better management and development of technical human resources and organizations. Included are concepts technical managers need to positively change themselves and to lead others toward desired bahavior.
Grade Mode: Normal Grading Mode

EM 650 Special Topics **1-4 Credit hours**
Study of special topics of an advanced nature. (PR: Consent)
Grade Mode: Normal Grading Mode

EM 660 Project Management **3 Credit hours**
Provides the student with a practical knowledge of how to integrate effectively the functional efforts of many in the execution of programs and projects.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

EM 661 Project Mgmt in Practice **3 Credit hours**
Covers the Project Management Body of Knowledge. Designed to prepare project managers to pass the Project Management Professional exam, and to improve their skills as a project manager.
Grade Mode: Normal Grading Mode

EM 665 Mgt Engineering Organizations **3 Credit hours**
Techniques and methods for effective management of engineering firms, departments, and personnel. (PR: EM 601)
Grade Mode: Normal Grading Mode

EM 668 Operations Management **3 Credit hours**
Examination of the quantitative and conceptual tools for generating goods and services in manufacturing and non-manufacturing organizations.
Grade Mode: Normal Grading Mode

EM 670 Seminar in Engineering Mgt **3 Credit hours**
Provides the student an opportunity to examine issues in engineering management and to evaluate their consequences in organizations, in the profession, and in society. (PR: Consent)
Grade Mode: Normal Grading Mode

EM 675 Engineering Economics **3 Credit hours**
The concepts and methods for the financial calculations involving time, value of money and uncertainty. Capital and departmental budgeting processes and engineering inputs to cost accounting. (PR: Consent)
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

EM 694 Engineering Law **3 Credit hours**
The American legal system, contracts and specifications, liability of professional engineers, product liability, agency relationships, patent and proprietary rights, and special problems in contracts are studied.
Grade Mode: Normal Grading Mode

EM 699 Comprehensive Project in EM **3 Credit hours**
Grade Mode: Satisfactory/Unsatisfactory

English (ENG)

ENG 500 Listening/Speaking in Context **3 Credit hours**
This course promotes the development of English language fluency by nonnative speakers of English. It specifically targets the language skills necessary for successful oral communication within a graduate school context.
Grade Mode: Normal Grading Mode

ENG 501 Reading in Context **3 Credit hours**
This course prepares nonnative speakers of English to meet the challenges of reading for academic purposes at the graduate college level by improving their reading skills and English language proficiency.
Grade Mode: Normal Grading Mode

ENG 502 Comp & Rhet for Teachers **3 Credit hours**
Study of rhetorical invention and models of composing process, with intensive practice in writing.
Grade Mode: Normal Grading Mode

ENG 505 History English Language **3 Credit hours**
The phonology, spelling, grammar, syntax, and vocabulary of previous language periods as background to Modern English.
Grade Mode: Normal Grading Mode

ENG 506 Composition in Context **6 Credit hours**
This course for nonnative speakers of English focuses on written English within a graduate school context. Attention is placed on grammar, mechanics, research, American English rhetorical conventions, and process writing.
Grade Mode: Normal Grading Mode

ENG 507 Writing, Editing & Doc Design **3 Credit hours**
Study of the principles and practices of professional writing, editing, and document design.
Grade Mode: Normal Grading Mode

ENG 508 Writing in the Digital World **3 Credit hours**
Development of writing skills and strategies with an emphasis on digital texts and genres.
Grade Mode: Normal Grading Mode

ENG 509 Milton **3 Credit hours**
Biographical and critical study, including Milton's English poetry and prose, and his literary and intellectual milieu.
Grade Mode: Normal Grading Mode

ENG 510 Shaks Comedy Tragedy & Rom **3 Credit hours**
Intensive study of Shakespeare's comedies, tragicomedies and late romances. Also includes the Sonnets and Venus and Adonis.
Grade Mode: Normal Grading Mode

ENG 511 Chaucer **3 Credit hours**
The poetry of Chaucer, including the Canterbury Tales, in the light of medieval tradition and critical analysis.
Grade Mode: Normal Grading Mode

ENG 512 Shaks Hist & Tragedies **3 Credit hours**
Intensive study of Shakespeare's histories and Tragedies.
Grade Mode: Normal Grading Mode

ENG 514 19th Cent English Novel **3 Credit hours**
Austen, Scott, the Brontes, Eliot, Dickens, Thackeray, Trollope, Meredith, Hardy, Butler, Wilde, and their contemporaries.
Grade Mode: Normal Grading Mode

ENG 515 Victorian Poetry **3 Credit hours**
Emphasis on Tennyson, the Brownings, Arnold, Hopkins, Christina Rossetti, Hardy and the pre-Raphaelites.
Grade Mode: Normal Grading Mode

ENG 516 Victorian Nonfiction **3 Credit hours**
Essays, speeches, treasties, and other works from Britain's Victorian age. Includes such authors as Arnold, Carlyle, Darwin, Huxley, Eliot, Martineau, Mill, Newman, and others.
Grade Mode: Normal Grading Mode

ENG 517 English Drama to 1642 **3 Credit hours**
Non-Shakespearean English drama from its beginnings to the closing of the theatres.
Grade Mode: Normal Grading Mode

ENG 519 Approaches Teaching Lit **3 Credit hours**
The intensive study of the pedagogy of literature and literary critical theory and its classroom applications.
Grade Mode: Normal Grading Mode

ENG 521 American Lit to 1830 **3 Credit hours**
Study of American literature of the Puritan, Colonial, and Federal periods, including such authors as Jonathan Edwards, Edward Taylor, Anne Bradstreet, Benjamin Franklin, Phillis Wheatley, Washington Irving, and Catharine Maria Sedgwick.
Grade Mode: Normal Grading Mode

ENG 522 American Lit 1830-1865 **3 Credit hours**
American literature of the Romantic Period, including such authors as Emerson, Poe, Melville, Hawthorne, Dickinson, Whitman, Fuller, Douglass, Stowe, and other figures of the period.
Grade Mode: Normal Grading Mode

ENG 523 American Lit 1865-1914 **3 Credit hours**
American literature of the Realistic and Naturalistic periods, including such authors as Howells, Twain, James, Dreiser, Chesnutt, Wharton, Crane, and Chopin.
Grade Mode: Normal Grading Mode

ENG 524 American Literature after 1914 **3 Credit hours**
American literature after 1914, including such authors as Faulkner, Hemingway, Cather, Mailer, Carver, Vonnegut, Morrison and others.
Grade Mode: Normal Grading Mode

ENG 526 Appalachian Lit & Theory **3 Credit hours**
Appalachian Literature and Theory conducts an in-depth study of aspects of Appalachian culture and literature through the lens of select literary and social theories such as multiculturalism, feminism, or post-colonialism.
Grade Mode: Normal Grading Mode

ENG 528 International Literature **3 Credit hours**
Readings in contemporary literature from the non Anglo-European world. Texts by Asian, African, South American, Australian, and other authors.
Grade Mode: Normal Grading Mode

ENG 530 Young Adult Literature **3 Credit hours**
Critical study of literature intended for adolescent and pre-adolescent readers. Focus on coming-of-age and identity issues, and on texts representing cultural, ethnic, and social diversities of U.S. and world literatures.
Grade Mode: Normal Grading Mode

ENG 531 Writing for Nonprofit **3 Credit hours**
This course focuses on the genres and strategic applications of writing for nonprofit organizations. Students will analyze relevant texts and resources while writing and producing materials that nonprofits require.
Grade Mode: Normal Grading Mode

ENG 532 Contemporary Literature **3 Credit hours**
Examines literature of the present and its influences, including the inter-relationship between literature and other forms of textual/cultural production (e.g., cinema, television, popular music, comix/managa, 'zines, blogs, hypertext).
Grade Mode: Normal Grading Mode

ENG 533 Contemp English Poetry **3 Credit hours**
Principle poetry since the Victorian period.
Grade Mode: Normal Grading Mode

ENG 534 Contemp American Poetry **3 Credit hours**
Principle poetry since 1900.
Grade Mode: Normal Grading Mode

ENG 535 Modernism **3 Credit hours**
A study of trans-Atlantic Modernist writers, including both poetry and prose.
Grade Mode: Normal Grading Mode

ENG 536 Medieval English Lit **3 Credit hours**
Old English elegiac and heroic poetry; Middle English lyrics and romances; the Ricardian poets and Malory
Grade Mode: Normal Grading Mode

ENG 537 Tudor Lit 16th Century **3 Credit hours**
Survey may include works by More, Skelton, Wyatt, Sidney, Spenser, Nashe, Marlowe, Raleigh, Lyly, Sidney, Mary Sidney, and Shakespeare, excluding drama.
Grade Mode: Normal Grading Mode

ENG 538 17th Century Lit **3 Credit hours**
Survey may include Donne and the Metaphysical poets, the Cavalier lyricists, Bacon, Browne, Wroth, Cary, Lanyer, Herbert, Jonson, Burton, Walton, Hobbes, and Bunyan.
Grade Mode: Normal Grading Mode

ENG 547 English Romantic Poets **3 Credit hours**
Emphasis on Blake, Wordsworth, Coleridge, Byron, Shelly, and Keats.
Grade Mode: Normal Grading Mode

ENG 555 Literary Criticism **3 Credit hours**
Historical study, with application of principles.
Grade Mode: Normal Grading Mode

ENG 560 Comp and Writing Center Theory **4 Credit hours**
Introduces students to the study of teaching writing in a classroom setting and in one-to-one tutoring. (PR: graduate program admission)
Grade Mode: Normal Grading Mode

ENG 566 Literacy Studies **3 Credit hours**
Theories of writing and reading development with a focus on cultural, linguistic, and rhetorical influences on literacy acquisition.
Grade Mode: Normal Grading Mode

ENG 567 Visual Rhetoric **3 Credit hours**
Study of the production, strategies, reception, and persuasive effects of visual texts.
Grade Mode: Normal Grading Mode

ENG 569 Creative Writing Pedagogy **3 Credit hours**
A study of the professional and pedagogical methods and theories related to teaching and designing courses in creative writing.
Grade Mode: Normal Grading Mode

ENG 570 Form/Theory: Creative Writing **3 Credit hours**
Readings in contemporary literature (fiction, non-fiction, and poetry) addressing the work in terms of the formal and theoretical concerns that drive it. Course text will challenge notions of genre, form, theory, and practice.
Grade Mode: Normal Grading Mode

ENG 575 Intro to Linguistics **3 Credit hours**
The structural and descriptive approach to study of the English language.
Grade Mode: Normal Grading Mode

ENG 576 Structures of English Language **3 Credit hours**
Study of the structures of English grammar, including how these structures relate to punctuation, language acquisition, dialect variation, and the history of English.
Grade Mode: Normal Grading Mode

ENG 578 Intro to Sociolinguistics **3 Credit hours**
Sociolinguistics is the study of the effects of language in society, relevant to discourse practices, language attitudes, variations, shifts, and changes.
Grade Mode: Normal Grading Mode

ENG 580 Special Topics **1-4 Credit hours**
(PR: Permission of the chair)
Grade Mode: Normal Grading Mode

ENG 581 Special Topics **1-4 Credit hours**
(PR: Permission of the chair)
Grade Mode: Normal Grading Mode

ENG 582 Special Topics **1-4 Credit hours**
(PR: Permission of the chair)
Grade Mode: Normal Grading Mode

ENG 583 Special Topics **1-4 Credit hours**
(PR: Permission of the chair)
Grade Mode: Normal Grading Mode

ENG 585 Independent Study **1-4 Credit hours**
(PR: Permission of the chair)
Grade Mode: Normal Grading Mode

ENG 586 Independent Study **1-4 Credit hours**
(PR: Permission of the chair)
Grade Mode: Normal Grading Mode

ENG 587 Independent Study **1-4 Credit hours**
(PR: Permission of the chair)
Grade Mode: Normal Grading Mode

ENG 588 Independent Study **1-4 Credit hours**
(PR: Permission of the chair)
Grade Mode: Normal Grading Mode

ENG 591 Poetry Workshop **3 Credit hours**
A practical and intensive class in exploring the varieties of creative expression; exercises on the creating of verse in different forms and styles.
Grade Mode: Normal Grading Mode

ENG 592 Fiction Workshop **3 Credit hours**
A forum for presentation, discussion, and refinement of the student's work, either short stories or novels.
Grade Mode: Normal Grading Mode

ENG 593 Creative Nonfiction Workshop **3 Credit hours**
A writing workshop where students develop and refine their original creative nonfiction (memoir, biography, essays, travel/leisure writing, etc.), employing techniques typically reserved for fiction (dialogue, narrative, poetic language, etc.).
Grade Mode: Normal Grading Mode

ENG 615 TESOL Methods **3 Credit hours**
This course aims at teaching English for academic purposes, ranging from teaching language skills to pragmatics to cultural understanding, in relation to theories of language and language learning.
Grade Mode: Normal Grading Mode

ENG 617 TESOL Curriculum Dev **3 Credit hours**
This course introduces students to core principles of curriculum development for the language classroom. Students develop the abilities to critique and adapt textbooks and to design and create classroom materials.
Grade Mode: Normal Grading Mode

ENG 618 Language Assessment **3 Credit hours**
Students are introduced to core principles of language assessment. By exploring a varietyh of assessment techniques, students develop the ability to critique current assessments and to build their own assessments.
Grade Mode: Normal Grading Mode

ENG 622 Second Language Learning **3 Credit hours**
This course starts with an overview of disciplinary frameworks of language development, then addresses the four major theoretical perspectives: linguistics, cognitive, sociolinguistic and sociocultural.
Grade Mode: Normal Grading Mode

ENG 624 20th Century British Novel **3 Credit hours**
Major British novelists of the twentieth century.
Grade Mode: Normal Grading Mode

ENG 625 20th Century American Novel **3 Credit hours**
Major American novelists of the twentieth century.
Grade Mode: Normal Grading Mode

ENG 626 Systemic Functional Grammar **3 Credit hours**
This course is a general introduction to the principles and practice of Systemic Functional Grammar with an emphasis on the paradigmatic meaning making potential of language systems.
Grade Mode: Normal Grading Mode

ENG 627 Text Analysis **3 Credit hours**
Text analysis compares crucial aspects of English syntax, discourse pragmatics, and prepositional and lexical semantics with those of other languages.
Grade Mode: Normal Grading Mode

ENG 628 20th Cent African-American Lit **3 Credit hours**
An intensive study of selected novels, plays and poems of the period.
Grade Mode: Normal Grading Mode

ENG 630 Materials & Meth Research **3 Credit hours**
Instruction and practice in scholarly literary research. Required among first 12 hours of course work and prior to admission to candidacy for the Master of Arts degree with a major in English.
Grade Mode: Normal Grading Mode

ENG 631 Major American Authors **3 Credit hours**
An intensive study of selected American authors.
Grade Mode: Normal Grading Mode

ENG 632 Topics in American Lit **3 Credit hours**
Concentrated study of continuing themes or influences in American literature; for example, narrative perspectives, regional influences, or conflictinag agrarian and industrial values.
Grade Mode: Normal Grading Mode

ENG 633 ENG Research Applied Lin **3 Credit hours**
To inform students of various approaches to research in applied linguistics. To equip students with the critical skills to evaluate research with the end result of conducting their own research.
Grade Mode: Normal Grading Mode

ENG 634 Teaching EAP **3 Credit hours**
To help students understand the characteristics of academic English, and to train pre-service ESL or EFL teachers on how to teach English for academic purposes.
Grade Mode: Normal Grading Mode

ENG 635 Major Texts **3 Credit hours**
An intensive study of a single major text from any period of British, American, or anglophone literature, leading to mastery of the text, its critical responses, and its influences.
Grade Mode: Normal Grading Mode

ENG 636 Selected English Writers **3 Credit hours**
An intensive study of a small group of selected English writers such as the Metaphysical Poets, the Cavalier Poets, or the Bloomsbury Group.
Grade Mode: Normal Grading Mode

ENG 637 Topics in English Lit **3 Credit hours**
A concentrated study of themes or influences in English literature; for example, narrative strategies, medievalism, the pastsoral mode, or conflicting moral, social or literay values.
Grade Mode: Normal Grading Mode

ENG 638 Language and Context **3 Credit hours**
Survey of genre and register analysis research from the three perspectives of ESP (English for Special Purpose), New Rhetoric, and Systemic Functional Linguistics.
Grade Mode: Normal Grading Mode

ENG 639 CALL **3 Credit hours**
This graduate seminar course introduces students to general topics of computer-assisted language learning (CALL), focusing on the use and research of computer technologies in second-language teaching and learning. Students will gain updated pedagogical knowledge on the integration of CALL in language classes, and also develop competence to evaluate and conduct research in CALL.
Grade Mode: Normal Grading Mode

ENG 640 Composition Pedagogy **3 Credit hours**
This course builds on composition theory to address the various pedagogies and strategies most commonly practiced in the beginning composition classroom. Required for graduate assistants in English.
Pre-req: ENG 560 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ENG 645 Res Method Comp & Rhet **3 Credit hours**
An applied survey course in the theories, methods, and designs of research in the discipline of Composition and Rhetoric.
Pre-req: ENG 560.
Grade Mode: Normal Grading Mode

ENG 646 Topics Rhetoric Composition **3 Credit hours**
Study of prevailing topics in Rhetoric and Composition. Topics may include Eco-Rhetoric, Assessment, and the Rhetoric of Science, among others.
Grade Mode: Normal Grading Mode

ENG 648 Feminist Rhetorics **3 Credit hours**
Study of the ways language shapes and is influenced by gender and identity.
Grade Mode: Normal Grading Mode

ENG 650 Special Topics **3 Credit hours**
Topics designed by individual professors according to special interests (outside of strictly English or American literature subjects) and approved departmentally on a year-to-year basis, to be offered the following year.
Grade Mode: Normal Grading Mode

ENG 651 Special Topics **3 Credit hours**
Grade Mode: Normal Grading Mode

ENG 652 Special Topics **3 Credit hours**
Grade Mode: Normal Grading Mode

ENG 653 Special Topics **3 Credit hours**
Topics designed by individual professors according to special interests (outside of strictly English or American literature subjects) and approved departmentally on a yearto-year basis, to be offered the following year.
Grade Mode: Normal Grading Mode

ENG 660 Literary Theory **3 Credit hours**
Intensive introduction to one or more literary or cultural theories, familiarizing students with the major developments, terms, premises, and debates of the theory or theories in question.
Grade Mode: Normal Grading Mode

ENG 661 Studies in Genre **3 Credit hours**
An intensive study of one or more literary genres, familiarizing students with the major developments, terms, premises, and debates concerning the genre or genres in question.
Grade Mode: Normal Grading Mode

ENG 662 Topics in Film and Media **3 Credit hours**
Intensive study of a specific theme or genre in film, television, digital media, video games, and other new media.
Grade Mode: Normal Grading Mode

ENG 665 Creative Writing Workshop **3 Credit hours**
An intensive multi-genre study of the best practices for the writing and revising of creative writing.
Grade Mode: Normal Grading Mode

ENG 670 TESOL Practicum I **3 Credit hours**
This supervised practicum engages students in classroom observation and promotes their ability to reflect on classroom practice.
Pre-req: ENG 615 or ENG 617 or ENG 651.
Grade Mode: Credit/No Credit Grade Only

ENG 671 TESOL Practicum II **3 Credit hours**
In this supervised practicum, students design and implement lessons in language classrooms. Students receive feedback on their teaching and engage in the practice of reflection.
Pre-req: ENG 670.
Grade Mode: Credit/No Credit Grade Only

ENG 675 Professional Topics in Writing **3 Credit hours**
A study of professional topics on the writing, editing/publishing and teaching of writing in the current literacy and job markets.
Pre-req: ENG 630 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ENG 681 Thesis **1-9 Credit hours**
Pre-req: ENG 630 with a minimum grade of C.
Attributes: No Textbook Required, Thesis
Grade Mode: Credit/No Credit Grade Only

ENG 682 Portfolio **1-9 Credit hours**
Extensive revision and creation of new original writing for the purposes of demonstrating knowledge and ability, as well as preparing students for further graduate study or the job market.
Attributes: No Textbook Required
Grade Mode: Credit/No Credit Grade Only

ENG 683 Comprehensive Exams **1-9 Credit hours**
Preparation and extensive reading for exams in three areas of study. Students are expected to demonstrate expertise in these three areas through completion of essay exams.
Grade Mode: Credit/No Credit Grade Only

ENG 685 Independent Study **1-4 Credit hours**
Independent Study
Grade Mode: Normal Grading Mode

ENG 686 Independent Study **1-4 Credit hours**
Independent Study
Grade Mode: Normal Grading Mode

ENG 687 Independent Study **1-4 Credit hours**
Independent Study
Grade Mode: Normal Grading Mode

ENG 688 Independent Study **1-4 Credit hours**
Independent Study
Grade Mode: Normal Grading Mode

ENG 689 Internship **1-4 Credit hours**
Supervised work experience in English.
Attributes: Onsite Learning Experience
Grade Mode: Normal Grading Mode

Entrepreneurship (ENT)

ENT 680 Entrepreneurship **3 Credit hours**
The management of small business emphasizes how they are started and financed, how they produce and market their products and services and how they manage their human resources.
Grade Mode: Normal Grading Mode

Environmental Engineering (ENVE)

ENVE 580 Special Topics **3 Credit hours**
Formal study of environmental engineering topics of current interest.
Grade Mode: Normal Grading Mode

ENVE 600 Special Topics in Envr Engr **1-3 Credit hours**
Grade Mode: Normal Grading Mode

ENVE 615 Environmental Chemistry **3 Credit hours**
Fundamental principles governing the various aspects of chemistry relevant to the environment will be addressed. The chemistry of waste treatment, cycle processes and other applications will be evaluated. (PR: Consent)
Grade Mode: Normal Grading Mode

ENVE 616 Wastewater Treatment Fac Dsgn **3 Credit hours**
Fundamental principles and applied practices of wastewater treatment facilities. Includes performance analysis, component selection, and system design for physical, chemical, and biological processes. (PR: ENVE 615)
Pre-req: ENVE 615.
Grade Mode: Normal Grading Mode

ENVE 617 Water Treatment Fac Design **3 Credit hours**
Fundamental principles and applied practices of water quality and water treatment facilities. Includes analysis of source waters, and design of physical and chemical system components. (PR: ENVE 615)
Grade Mode: Normal Grading Mode

ENVE 620 Solid Waste Management **3 Credit hours**
Solid waste management and minimization: options, methods, laws and regulations. Landfill design, testing, operation, monitoring, and closure. Use of composting in landfills. Incinerator design and operation. Separation and recycling approaches.
Grade Mode: Normal Grading Mode

ENVE 625 Hazardous Waste Manangement **3 Credit hours**
Options and methods of managing hazardous waste. Landfill design, testing, operation, monitoring, and closure. Incinerator design, testing, operation, and monitoring. Design and operation of treatment facilities. Waste reduction practices.
Grade Mode: Normal Grading Mode

ENVE 650 Special Topics **1-4 Credit hours**
Occasional special offerings in Environmental Engineering. (PR: Consent)
Grade Mode: Normal Grading Mode

ENVE 670 Hydrology and Drainage Control **1-6 Credit hours**
The goal of this course is to develop an understanding of watershed processes, including precipitation, generation of runoff, infiltration, stream flow, soil erosion, sediment transport and deposition, and fluvial geomorgphology.
Grade Mode: Normal Grading Mode

ENVE 671 Hydraulic Structures **3 Credit hours**
Analysis and design of water conveyance channels and hydraulic structures, such as siphons, chutes, weirs, flumes, dams, spillways, gates, locks, storm surge barriers, and outlet works.
Grade Mode: Normal Grading Mode

ENVE 672 Watershed Modeling **3 Credit hours**
Setup, execution, and calibration of numerical watershed models. Includes the rational method, TR-55, HEC-1, and HEC-HMS. Emphasis on watershed analysis for decision making and drainage design.
Grade Mode: Normal Grading Mode

ENVE 673 Industrial Ventilation **3 Credit hours**
The design and analysis of industrial ventilation systems, including properties of air contaminants; hood, duct, and fan design; system performance; mine ventilation; air cleaning devices; testing; diagnosis; troubleshooting, cost analysis. (PR: Consent)
Grade Mode: Normal Grading Mode

ENVE 681 Environmental Engr Design **3 Credit hours**
Principles of engineering design of water and wastewater treatment systems and processes, including physical, chemical and biological treatment and handling of treatment residuals. Includes coverage of relevant water quality concepts.
Grade Mode: Normal Grading Mode

ENVE 682 Environmental Remediation Tech **3 Credit hours**
Decontamination or removal of pollutants from soil. Aeration of excavated soil on site. Use of solvants and surfactants as removal aids. Removal of soil for treatment at an off-site facility. (PR: ES 651)
Grade Mode: Normal Grading Mode

Environmental Science (ES)

ES 514 Risk Assessment and Toxicology **3 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

ES 550 Environmental Law & Policy **3 Credit hours**
Introduction to major federal environmental legislation and related state programs, judicial review, and practical effects, and to processes for formulation and development of environmental policy.
Grade Mode: Normal Grading Mode

ES 554 Watershed Protection **3 Credit hours**
This course reviews key components of watershed structure and functions before investigating and applying concepts for managing and restoring aquatic ecosystems.
Grade Mode: Normal Grading Mode

ES 575 Intro to Environmental Science **3 Credit hours**
The principles of chemistry, geology and mathematics used in pollution control. Topographic maps, environmental regulations, field testing and compliance. Econonmics of use of pollution control devices.
Grade Mode: Normal Grading Mode

ES 582 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ES 583 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ES 585 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ES 586 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ES 587 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ES 588 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ES 602 Study of WV Environment **3 Credit hours**
An overview of the diversity of the local natural environment, including the plants, insects, amphibians, reptiles, other wildlife, and the impact of human activities on the local environment.
Grade Mode: Normal Grading Mode

ES 603 Seminar In Current Envr Issues **3 Credit hours**
The influence of environmental laws, common law, contract law, tort law, and regulatory interpretations, as well as the impact of citizens' groups, professional societies, and trade associations on current practice. (PR: Consent)
Grade Mode: Normal Grading Mode

ES 604 Air Pollution **3 Credit hours**
Major air pollution sourcs; meteorological concepts; physical and chemical characterization; effects on plant and animal life; and development of air pollution laws, with emphasis on West Virginia regulations. (PR: Consent)
Grade Mode: Normal Grading Mode

ES 605 Analy Prin Environ Sampling **3 Credit hours**
Identifying and measuring contaminants in air, water, soil, and sludge. Methods of analysis including gas chromatography nuclear magnetic resonance, colorimetry, infrared absorption untraviolet absorption, atomic absorption, and mass spectroscopy. (PR: Chemistry and ES 600, or equivalent experience)
Grade Mode: Normal Grading Mode

ES 609 Topics in Bioscience Education **1-6 Credit hours**
Selected topics of interest to teachers of biology. (PR: Consent)
Grade Mode: Normal Grading Mode

ES 610 Envr Sampling Practice **3 Credit hours**
Current practice in environmental testing and monitoring. Traditional wastewater tests, bioassay analysis, aquatic toxicity. Current procedures in gas chromatographic analysis, mass spectrometry. Sample preservation, quality control, and quiality assurance. (PR: analytical chemistry and instrumental methods, or ES 605)
Grade Mode: Normal Grading Mode

ES 620 Environmental Management Sys **3 Credit hours**
EMS principles and elements; environmental, health and safety regulatory issues; ISO 14000 EMS specifications and guidelines; environmental auditing; environmental performance evaluation; life cycle assessment and environmental labeling.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

ES 626 Remote Sensing & Map Use **3 Credit hours**
Introduction to topographic, soil, and geologic maps and aerial and satellite photography as sources of environmental information. Application of various data sources to specific types of environmental problems.
Grade Mode: Normal Grading Mode

ES 630 Environmental Site Assessment **3 Credit hours**
Site inspection and investigation, emphasizing the "due diligence" clause of Saction 107 of the Comprehensive Environmental Response Compensation Liability Act of 1980, site remediation, and data analysis and reporting.
Grade Mode: Normal Grading Mode

ES 640 Groundwater Princ & Monitoring **3 Credit hours**
Introduction to groundwater hydrogeology; including porosity hydraulic conductivity, aquifers, groundwater flow, well hydraulics, groundwater geology, and water chemistry. (PR: A background in environmental science or geology is recommended)
Grade Mode: Normal Grading Mode

ES 645 Applied Hydrogeology **3 Credit hours**
The fundamentals of hydrogeology are utilized to implement a case study investigation of a contaminated groundwater site from the planning stage through a final report. (PR: ES 640 or equivalent experience)
Grade Mode: Normal Grading Mode

ES 646 Dynamics of Ecosystems **3 Credit hours**
Species interaction; population, community and ecosystem ecology; productivity; nutrient cycling; physiological ecology, population dynamics; pollution and conservation; and aquatic, marine, and terrestrial ecosystems. (PR: Consent)
Grade Mode: Normal Grading Mode

ES 648 Vegetation of West Virginia **3 Credit hours**
Grade Mode: Normal Grading Mode

ES 651 Environmental Microbiology **3 Credit hours**
Grade Mode: Normal Grading Mode

ES 652 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ES 655 Environmental Ethics **3 Credit hours**
Introduction to the subject of ethics, environmental ethical theory, moral reasoning, free market regulation, right to know, proprietary information, product liability cost-benefit analysis, risk assessment, waste disposal, and resource depletion. (PR: Consent)
Grade Mode: Normal Grading Mode

ES 656 Prep Eval Environ Impact State **3 Credit hours**
A practical course designed to provide students with the ability to prepare and evaluate impact statements. The course is based on the concepts of the environment as a single interrelated system.
Grade Mode: Normal Grading Mode

ES 660 Environmental Law I **3 Credit hours**
Introduction to major federal environmental legislation and related state programs, including policy issues, judicial review, and practical effects. Includes CERCLA, RCRA, Clean Water Act, NEPA, ESA and SDWA.
Grade Mode: Normal Grading Mode

ES 661 Environmental Regulations **3 Credit hours**
Practical applications and concentrated study of regulations under all major federal environmental programs, including permitting, reporting, and other compliance issues. Includes discussion of procedures used in development of regulations.
Grade Mode: Normal Grading Mode

ES 663 Environmental Law II **3 Credit hours**
Course covers three general topic areas: environmental assessment and biodiversity assessment (NEPA and ESA), risk management and the regulation of toxic substances (TSCA, FIFRA, and SDWA), and international environmental law.
Pre-req: ES 660.
Grade Mode: Normal Grading Mode

ES 665 Water Resources Management **3 Credit hours**
Course surveys the processes that govern the earth's hydrologic cycle and the human activities which effect that cycle. It seeks to provide an integrated science/managment/policy approach to water resource issues.
Grade Mode: Normal Grading Mode

ES 670 Sustainable Energy **3 Credit hours**
The course focuses on the technological and cost fundamentals of what is generally considered sustainable energy technologies, including solar, wind, biomass and other energy sources.
Grade Mode: Normal Grading Mode

ES 674 Epidemiological Hlth Res Tech **3 Credit hours**
An introduction to techniques of epidemiological health research. The primary focus will be health problems in the industrial setting.
Grade Mode: Normal Grading Mode

ES 675 Brownfields Management **3 Credit hours**
Environmental management and development of abandoned, idoled or underused industrial or commercial facilities where expansion or redevelopment is complicated by real or perceived environmental contamination.
Grade Mode: Normal Grading Mode

ES 680 Thesis **1-6 Credit hours**
Students completing ES 680 must defend their thesis in an oral examination.
Attributes: No Textbook Required, Onsite Learning Experience, Thesis
Grade Mode: Credit/No Credit Grade Only

Exercise Science and Sport (ESS)

ESS 515 PE in Pre Elem Mid School **3 Credit hours**
Grade Mode: Normal Grading Mode

ESS 517 Teaching College Phys Ed **3 Credit hours**
Grade Mode: Normal Grading Mode

ESS 542 Strength and Cond **3 Credit hours**
Delivery of strength and conditioning principles related to musculoskeletal movement and the utilization of energy systems for the development and administration of sport-based exercise programs.
Pre-req: ESS 543 (may be taken concurrently) with a minimum grade of D.
Concurrent PR: ESS 543
Grade Mode: Normal Grading Mode

ESS 543 Strength and Cond Lab **1 Credit hour**
Direct application of strength and conditioning principles in the development and administration of sport-based exercise programs. Emphasis will be on the training and demonstration of proper communication and technique regarding the components of flexibility, resistance training, power-lifting, Olympic weightlifting, and speed and agility.
Pre-req: ESS 542 (may be taken concurrently) with a minimum grade of D.
Concurrent PR: ESS 542
Grade Mode: Normal Grading Mode

ESS 560 Professional Development **1-4 Credit hours**
Grade Mode: Credit/No Credit Grade Only

ESS 561 Professional Development **1-4 Credit hours**
Grade Mode: Credit/No Credit Grade Only

ESS 562 Professional Development **1-4 Credit hours**
Grade Mode: Credit/No Credit Grade Only

ESS 563 Professional Development **1-4 Credit hours**
Grade Mode: Credit/No Credit Grade Only

ESS 564 Professional Development **1-4 Credit hours**
Grade Mode: Credit/No Credit Grade Only

ESS 569 Curriculum Development PE **3 Credit hours**
Grade Mode: Normal Grading Mode

ESS 576 Theo Prac Aspect Coaching **3 Credit hours**
An in depth study of the principles and problems of coaching.
Grade Mode: Normal Grading Mode

ESS 578 Exercise Metabolism **3 Credit hours**
Addresses the principles of sport nutrition and its effects on physiological systems, body composition, and human exercise performance.
Grade Mode: Normal Grading Mode

ESS 580 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ESS 581 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ESS 582 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ESS 583 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ESS 585 Independent Study **1-4 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

ESS 586 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ESS 587 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ESS 588 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ESS 591 Worskhop in Physical Ed **1-3 Credit hours**
Grade Mode: Normal Grading Mode

ESS 592 Workshop in Physical Ed **1-3 Credit hours**
Grade Mode: Normal Grading Mode

ESS 593 Workshop in Physical Ed **1-3 Credit hours**
Grade Mode: Normal Grading Mode

ESS 594 Workshop in Physical Ed **1-3 Credit hours**
Grade Mode: Normal Grading Mode

ESS 600 Adv. Readings in Sports Ethics **3 Credit hours**
A critical analysis of and engagement with leading ethical thinking as applied to sport.
Grade Mode: Normal Grading Mode

ESS 601 Adv Exercise Testing **3 Credit hours**
Exercise testing techniques presented to determine the biological responses to exercise stress and to investigate the physiological limitations to human performance as it relates to disease and/or sport performance.
Grade Mode: Normal Grading Mode

ESS 608 Motor Learning & Perform **3 Credit hours**
Grade Mode: Normal Grading Mode

ESS 610 Phys Growth & Motor Devel **3 Credit hours**
Grade Mode: Normal Grading Mode

ESS 621 Adv Exercise Physiology I **3 Credit hours**
Topics would include bioenergetics, integration of metabolism, metabolic response to exercise, neuroendocrine control of metabolism during exercise, cardiovascular control and adaptation during exercise and respiratory control and adaptation during exercise.
Grade Mode: Normal Grading Mode

ESS 622 PE for Atypical Individ **3 Credit hours**
Grade Mode: Normal Grading Mode

ESS 623 Adv Ex Phys II **3 Credit hours**
Addresses neuromuscular plasticity and physiological adaptations to environmental stimuli during exercise.
Grade Mode: Normal Grading Mode

ESS 626 Hist & Phil PE & Sports **3 Credit hours**
An investigation of historical events, political and social climates, and personalities as well as philosophies which have influenced physical education and sport from early civilizations to the present.
Grade Mode: Normal Grading Mode

ESS 631 Perform Tech & Analysis **3 Credit hours**
Analysis of lead-up, intermediate and advanced techniques of a selected team, individual or dual sports. Emphasis given to mechanics of performance psychological stress components, psychological factors, strategies and teaching/coaching methodology.
Grade Mode: Normal Grading Mode

ESS 632 Perform Tech & Analysis **3 Credit hours**
Analysis of lead-up, intermediate and advanced techniques of a selected team, individual or dual sports. Emphasis given to mechanics of performance psychological stress components, psychological factors, strategies and teaching/coaching methodology.
Grade Mode: Normal Grading Mode

ESS 633 Perform Tech & Analysis **3 Credit hours**
Analysis of lead-up, intermediate and advanced techniques of a selected team, individual or dual sports. Emphasis given to mechanics of performance psychological stress components, psychological factors, strategies and teaching/coaching methodology.
Grade Mode: Normal Grading Mode

ESS 634 Perform Tech & Analysis **3 Credit hours**
Analysis of lead-up, intermediate and advanced techniques of a selected team, individual or dual sports. Emphasis given to mechanics of performance psychological stress components, psychological factors, strategies and teaching/coaching methodology.
Grade Mode: Normal Grading Mode

ESS 636 Structural Kinesiology **3 Credit hours**
Instruction and laboratory experiences involving musculoskeletal anatomy and biomechanics as applied to human movement.
Grade Mode: Normal Grading Mode

ESS 641 Theor/Factor Ath Perform **3 Credit hours**
Grade Mode: Normal Grading Mode

ESS 642 Devise Train & Cond Prog **3 Credit hours**
Application of neuromuscular and physiological knowledge to the examination of the administration and content of existing exercise programs as well as the development of new programs.
Grade Mode: Normal Grading Mode

ESS 644 Cardio Exer Physiol **3 Credit hours**
Detailed study of the anatomy and physiology of the cardiovascular system and its response to acute and chronic exercise.
Pre-req: ESS 621.
Grade Mode: Normal Grading Mode

ESS 645 Respir Exer Physiol **3 Credit hours**
Detailed study of the anatomy and physiology of the respiratory system and its response to acute and chronic exercise.
Pre-req: ESS 621 and ESS 623 and ESS 670.
Grade Mode: Normal Grading Mode

ESS 646 Neuro Exer Physiol/Plas **3 Credit hours**
This course is a detailed study of the structure and function of the neuromuscular system along with the etiology and functional consequences of numerous neuromuscular diseases.
Pre-req: ESS 621 and ESS 623 and ESS 670.
Grade Mode: Normal Grading Mode

ESS 650 Drug and Sport **3 Credit hours**
Grade Mode: Normal Grading Mode

ESS 651 Mech Analysis Motor Skill **3 Credit hours**
Analysis of motor skills through the application of the principles of physics.
Grade Mode: Normal Grading Mode

ESS 654 Contemp & Compar Phys Ed **3 Credit hours**
A study of objectives, methods, personnel, facilities, and program uniqueness of the physical education of selected nations and world regions. National sport programs, international sport programs and competition, and international professional organizations are considered.
Grade Mode: Normal Grading Mode

ESS 660 Internship **3-6 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

ESS 665 Adv Test & Measure Phy Ed **3 Credit hours**
Grade Mode: Normal Grading Mode

ESS 670 Research Meth in Kinesiology **3 Credit hours**
An examination of experimental research design, laboratory methods, construction of instruments, execution of research, and presentation of research papers with an emphasis on science.
Grade Mode: Normal Grading Mode

ESS 681 Thesis **1-6 Credit hours**
Attributes: No Textbook Required, Thesis
Grade Mode: Normal Grading Mode

ESS 682 Prev & Rehab Physiology **3 Credit hours**
An examination of experimental research design, laboratory methods, construction of instruments, execution of research, and presentation of research papers with an emphasis on science.
Grade Mode: Normal Grading Mode

ESS 683 Cardiovascular Assessment **3 Credit hours**
Considers cardiovascular assessment strategies, including EKG interpretation, related medical profile variables, patient/client/athlete screening and risk stratification.
Grade Mode: Normal Grading Mode

ESS 685 Admin Prev Rehab Med Prog **3 Credit hours**
Grade Mode: Normal Grading Mode

ESS 686 Behav Asp Well Dis Rehab **3 Credit hours**
Grade Mode: Normal Grading Mode

ESS 687 Cardiac Life Support **3 Credit hours**
Grade Mode: Normal Grading Mode

ESS 692 Strength & Condit Clin Fld Exp **3 Credit hours**
The application and development of Strength and Conditioning Specialist skills in real-world settings.
Pre-req: ESS 621 with a minimum grade of C and ESS 642 with a minimum grade of C and DTS 671 with a minimum grade of C and HS 505 with a minimum grade of C and HS 566 with a minimum grade of C and ESS 601 (may be taken concurrently).
Concurrent PR: ESS 601
Grade Mode: Normal Grading Mode

Family Community Health (FCH)

FCH 610 Appalachian Cult & Geog **3 Credit hours**
An overview of the geograpby and culture of Appalachian. Development of a historical perspective on the health and medical care of its people. Identification of current health care resources. Preparation for successful integration into communities as a health care provider. Recognition of the impact of any culture and geography on health.
Grade Mode: Normal Grading Mode

FCH 615 Health Care Admin **3 Credit hours**
Descriptive overview of the structure, organization and function of health care systems. Introductin of analytic issues through case studies.
Grade Mode: Normal Grading Mode

FCH 620 Community Diag & Treatmnt **4 Credit hours**
The assessment of community health strengths and weaknesses. Development and implementation of practical solutions with special emphasis on environmental health.
Grade Mode: Normal Grading Mode

FCH 625 Health Care Research Meth **3 Credit hours**
The development of skills necessary to investigate community health problems in a scientific manner. The effective organization and presentation of data.
Grade Mode: Normal Grading Mode

FCH 630 Educational Skills **3 Credit hours**
The development of skills necessary for successful continuing personal education, effective medical resident and student teaching, and patient and community education.
Grade Mode: Normal Grading Mode

FCH 635 Epidemiology **3 Credit hours**
The office-based application of epidemiologic methods to community health problems. Evaluation and application of the literature.
Grade Mode: Normal Grading Mode

FCH 636 Health Statistics **3 Credit hours**
The practical application of statistics to community health and research. Use of statistics in epidemiologic studies.
Grade Mode: Normal Grading Mode

FCH 640 Practice Materials **2 Credit hours**
A series of practical workshops on topics useful to office practice: tracking systems, office laboratory, small computers, etc.
Grade Mode: Normal Grading Mode

FCH 645 Comm Health Care Monitor **2 Credit hours**
The development and maintenance of a quality assessment program for health care in the office, hospital and community setting. Includes peer review, chart review and assessment of health care costs.
Grade Mode: Normal Grading Mode

FCH 650 Comm & Natl Health Econ **2 Credit hours**
The fiscal and economic aspects of health care nationally, in office practice, in the hospital and in the community. Includes causes of and solutions to escalating costs of health care.
Grade Mode: Normal Grading Mode

FCH 681 Masters Thesis Comm Hlth **6 Credit hours**
Supervised community-based research on a topic in community health. Required time commitment of one-half day per week while in the rural practice portion of the program.
Attributes: Thesis
Grade Mode: Normal Grading Mode

FCH 682 Special Topics Comm Health I **1-3 Credit hours**
Completion of a special topic in community health under the supervision of a faculty member in the Department. Project should be relevant to health care issues in Central Applachia.
Pre-req: FCH 610 and FCH 635.
Grade Mode: Normal Grading Mode

FCH 683 Special Topics Comm Health II **1-3 Credit hours**
Completion of a special topic in community health under the supervision of a faculty member in the Department. Project should be relevant to health care issues in Central Applachia.
Pre-req: FCH 610 and FCH 635.
Grade Mode: Normal Grading Mode

FCH 700 Integrative Medicine **1-18 Credit hours**
Grade Mode: Pass/Fail Grading Mode

FCH 710 Family Practice Clerkship **8 Credit hours**
Grade Mode: Normal Grading Mode

FCH 712 Rural Physician Asso Program **1-36 Credit hours**
Rural primary care preceptorship.
Grade Mode: Normal Grading Mode

FCH 715 Biostat/Epidemiology **1-18 Credit hours**
Grade Mode: Pass/Fail Grading Mode

FCH 720 Community Medicine **3 Credit hours**
Grade Mode: Pass/Fail Grading Mode

FCH 730 Global Health Care Initiatives **1-18 Credit hours**
This course will be offered for the summer months between first and second years. Students could also enroll between the second and third year if they desire to delay the third year.
Grade Mode: Pass/Fail Grading Mode

FCH 735 Hum Bhvr/Disease Trop Dev Coun **1-18 Credit hours**
Grade Mode: Normal Grading Mode

FCH 740 Clinical Nutrition **1 Credit hour**
Grade Mode: Normal Grading Mode

FCH 742 Fam Com Hlth Clerkship **1-18 Credit hours**
Grade Mode: Pass/Fail Grading Mode

FCH 750 Computers In Medicine **1 Credit hour**
Grade Mode: Normal Grading Mode

FCH 760 Geographic Medicine **1 Credit hour**
Grade Mode: Normal Grading Mode

FCH 775 Medical Spanish **1-18 Credit hours**
Medical Spanish is designed as an independent learning course to develop a student's competence in interviewing, taking medical histories, examining, diagnosing, and treating Spanish-speaking patients. This course will offer elementary-level instruction in Spanish language and culture, all oriented to the practice of medicine with Spanish-speaking patients.
Grade Mode: Pass/Fail Grading Mode

FCH 780 Special Topics **1-18 Credit hours**
Grade Mode: Pass/Fail Grading Mode

FCH 785 Independent Study **1-15 Credit hours**
Grade Mode: Credit/No Credit Grade Only

FCH 790 Wilderness Medicine Elective **1-18 Credit hours**
Grade Mode: Normal Grading Mode

FCH 800 Clerkship In Family Prac **1-18 Credit hours**
Grade Mode: Pass/Fail Grading Mode

FCH 805 State Dept Health Activ **1-18 Credit hours**
Grade Mode: Normal Grading Mode

FCH 806 Local Health Dept **1-18 Credit hours**
Grade Mode: Pass/Fail Grading Mode

FCH 815 Occupational Medicine **1-18 Credit hours**
Grade Mode: Normal Grading Mode

FCH 816 Research in Fam & Comm Health **4-6 Credit hours**
This course was created to permit the student to create a family medicine research experience to meet individual study and/or interest needs.
Attributes: Thesis
Grade Mode: Pass/Fail Grading Mode

FCH 820 Rehabilitation Medicine **1-18 Credit hours**
The student will be exposed to general rehabilitation medicine including musculoskeletal problems and usage of different modalities in treating injuries.
Grade Mode: Pass/Fail Grading Mode

FCH 825 Family Planning **1-18 Credit hours**
Grade Mode: Normal Grading Mode

FCH 827 Subinternship Family Medicine **1-18 Credit hours**
Grade Mode: Pass/Fail Grading Mode

FCH 835 Frontier Nursing Service **1-18 Credit hours**
Grade Mode: Normal Grading Mode

FCH 840 Clerkship In Family Prac **1-18 Credit hours**
Grade Mode: Pass/Fail Grading Mode

FCH 845 Sports Med Adult Fitness **1-18 Credit hours**
Grade Mode: Pass/Fail Grading Mode

FCH 850 Rural Geriatrics **1-18 Credit hours**
Fourth year students will participate in a multidisciplinay community-based, home care program for the rural elderly. The program is the Benedum Rural Geriatrics Program, a model which is unique in the United States. Care is given by a geriatrics team based at Lincoln Primary Care Center. Students will accompany team members on home visits, see elderly patients at LPCC, participate in team meetings, and become involve in research projects if they so elect.
Grade Mode: Normal Grading Mode

FCH 855 Readings in Rural Health **1-18 Credit hours**
Overview of problems and issues of providing health care to rural communities.
Grade Mode: Pass/Fail Grading Mode

FCH 856 Readings in Sports Medicine **1-18 Credit hours**
Overview of problems and issues pertaining to sports medicine and adult and adolescent fitness.
Grade Mode: Normal Grading Mode

FCH 857 Readings International Health **1-18 Credit hours**
Overview of issues of providing health care in the international setting.
Grade Mode: Pass/Fail Grading Mode

FCH 858 In-State Externship in FCH **1-18 Credit hours**
Clinical course to allow students to complete clinical training at approved sites within the State of West Virginia that is no a MUSOM site.
Grade Mode: Pass/Fail Grading Mode

FCH 860 Community Medicine **1-18 Credit hours**
Provide medical students with training and experience in community health.
Grade Mode: Normal Grading Mode

FCH 865 Epidemiology Of Mycoses **1-18 Credit hours**
Grade Mode: Normal Grading Mode

FCH 866 Disease Within Community **1-18 Credit hours**
Grade Mode: Normal Grading Mode

FCH 867 Work And Health **1-18 Credit hours**
Grade Mode: Normal Grading Mode

FCH 868 FCH Externship **1-18 Credit hours**
Out-of-State Externship
Grade Mode: Pass/Fail Grading Mode

FCH 875 Comp Review of Clinical Med **2 Credit hours**
Grade Mode: Pass/Fail Grading Mode

FCH 880 International Health **1-18 Credit hours**
Grade Mode: Normal Grading Mode

FCH 885 Medical Spanish **1-18 Credit hours**
Medical Spanish.
Grade Mode: Pass/Fail Grading Mode

FCH 888 Rural Health Initia Elec Alt **1-18 Credit hours**
Acquaints students with issues of rural community health and wellness. Provides students with knowledge, attitudes and skills to participate in a changing health care environment.
Grade Mode: Pass/Fail Grading Mode

FCH 889 Alternative Medicine Elective **1-18 Credit hours**
The student will observe a selected number of alternative medicine practices and techniques, complete a series of required readings and discuss alternative approaches to healing with patients and providers.
Grade Mode: Normal Grading Mode

FCH 890 Wilderness Medicine **2-8 Credit hours**
The course will teach medical students about injuries that occur in the back country.
Grade Mode: Pass/Fail Grading Mode

FCH 895 Hospice and Palliative Care **1-18 Credit hours**
The primary objective of this elective will be for a student to obtain hands-on, intensive and well-supervised experience in the management of end-of-life situations involving patients, family members and other health care providers.
Grade Mode: Pass/Fail Grading Mode

Finance (FIN)

FIN 510 Prin Business Finance **3 Credit hours**
Business finance from the viewpoint of the financial manager. Use of financial statements, tools, and concepts for measuring and planning for profitability and liquidity. (PR: Permission of MBA director).
Pre-req: ACC 510 with a minimum grade of C and ECN 501 with a minimum grade of C and MGT 500 with a minimum grade of C.
Grade Mode: Normal Grading Mode

FIN 532 Fin Advising FINRA S-7 **3 Credit hours**
This course prepares students for the Series 7 exam that entitles the holder to sell all types of securities products with the exception of commodities and futures.
Grade Mode: Normal Grading Mode

FIN 556 Income Tax Planning **3 Credit hours**
This course focuses on principles and current law of income taxation and its impact on financial planning for individuals, couples and families as investors, employees and business owners.
Pre-req: FIN 551 with a minimum grade of C.
Grade Mode: Normal Grading Mode

FIN 558 Estate Planning **3 Credit hours**
Estate Planning focuses on the efficient conservation and transfer of wealth, consistent with the client's goals such as trusts, wills, probate, advanced directives, charitable giving, wealth transfers and related taxes.
Pre-req: FIN 551 with a minimum grade of C.
Grade Mode: Normal Grading Mode

FIN 580 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

FIN 581 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

FIN 620 Financial Management **3 Credit hours**
An examination of business corporations practicing at the level of the individual firm with emphasis on quantitative analysis of the variables which affect liquidity and profitability.
Pre-req: MGT 601 with a minimum grade of C.
Grade Mode: Normal Grading Mode

FIN 623 Investments **3 Credit hours**
A study of fundamental investment principles, modern portfolio theory, and portfolio formation process and the evaluation of portfolio performance.
Pre-req: FIN 501G with a minimum grade of C or FIN 501 with a minimum grade of C.
Grade Mode: Normal Grading Mode

FIN 625 Financial Prob Business **3 Credit hours**
Recognizing and solving financial problems through the use of case presentations and/or corporate annual and interim reports.
Pre-req: FIN 620 with a minimum grade of C.
Grade Mode: Normal Grading Mode

FIN 626 Sec Anlysis-Portfolio Mgt **3 Credit hours**
Analytical procedures used by institutional portfolio managers to measure both past performance of holdings and anticipated market performance of current offerings. Emphasis in this course may be expected to be more centralized in the area of fundamental analysis.
Pre-req: FIN 620 with a minimum grade of C.
Grade Mode: Normal Grading Mode

FIN 627 Fin Institution & Markets **3 Credit hours**
An in-depth study of the flow of funds in the aggregate financial systems, with emphasis on those in the United States. Because interest rates, and bank reserve requirements of Federal Reserve System are all dynamic in character, the content of this course may be expected to vary as financial events of the future dictate.
Pre-req: FIN 620 with a minimum grade of C.
Grade Mode: Normal Grading Mode

FIN 630 Multinational FIN MGT **3 Credit hours**
This course analyzes the challenges of multinational corporations' financial management. It covers three areas: foreign exchange market transactions, exchange rate risk and hedging, and corporate financial decisions of an MNC.
Grade Mode: Normal Grading Mode

FIN 650 Special Topics **1-3 Credit hours**
(Permission of the division head, full M.B.A. admission, and permission of GSM academic advisor)
Pre-req: FIN 501G with a minimum grade of C or FIN 510 with a minimum grade of C.
Grade Mode: Normal Grading Mode

FIN 651 Special Topics **1-3 Credit hours**
Pre-req: FIN 620 with a minimum grade of C.
Grade Mode: Normal Grading Mode

FIN 660 Independent Study **1-4 Credit hours**
Independent study of a specific nature under the supervision of a qualified faculty member. Hours of credit are determined by the magnitude of the project. (PR: FIN 620 and permission of division head or permission of GSM academic advisor)
Pre-req: FIN 620 with a minimum grade of C.
Grade Mode: Normal Grading Mode

FIN 681 Thesis **1-6 Credit hours**
(PR: Permission of the division head and full M.B.A. admission)
Attributes: Thesis
Grade Mode: Normal Grading Mode

FIN 699 Business Policy & Strategy **3 Credit hours**
Study of administrative decisions making under conditions of uncertainty. Policy construction at top administrative level with emphasis on strategy with consideration of major functions of the business organization.
Grade Mode: Normal Grading Mode

Forensic Science (FSC)

FSC 600 Molecular Biology **3 Credit hours**
A study of the molecular biology of the cell and its organelles, cell interactions, and differentiation.
Grade Mode: Normal Grading Mode

FSC 603 Genetics-DNA Lab **1 Credit hour**
Laboratory to be offered in conjunction with FSC 604 Genetics and DNA Technology stressing techniques and methods required for DNA analysis used in forensic case investigations, in CODIS laboratories and in paternity testing.
Grade Mode: Normal Grading Mode

FSC 604 Genetics & DNA Technology **3 Credit hours**
A comprehensive lecture series that covers the genetics and biochemistry of DNA to include the analysis, ethical considerations and quality assurance techniques used to analyze DNA for identification purposes. This course serves as a core course in the forensic science curriculum.
Grade Mode: Normal Grading Mode

FSC 605 F S Digital Imaging **3 Credit hours**
Introductory course in digital image processing. Covers techniques used in forensic laboratory to enhance, analyze, and catalog digital images. Instruction in lab setting.
Grade Mode: Normal Grading Mode

FSC 606 Crime Scene/Death Investiga **3 Credit hours**
Establishes foundations and techniques for proper crime scene investigation with or without a victim's body. Logical approach for collecting evidence and documenting scene and collection process.
Grade Mode: Normal Grading Mode

FSC 607 Blood Stain Pattern Analysis **3 Credit hours**
A comprehensive bloodstain pattern analysis course including bullet trajectory, courtroom testimony, and report writing. This course is taught as a combination of lectures, laboratories, and practical exercises.
Pre-req: FSC 606.
Grade Mode: Normal Grading Mode

FSC 608 Forensic Toxicology **3 Credit hours**
An in-depth analysis of both clinical and forensic aspects of toxicology from the viewpoint of the forensic and medical examiner's toxicology laboratories.
Grade Mode: Normal Grading Mode

FSC 609 Network Forensics **3 Credit hours**
Teaches the basics of how computers and networks function, how they can be involved in crimes as well as used as a source of evidence.
Grade Mode: Normal Grading Mode

FSC 610 Bioterrorism: Forensics **3 Credit hours**
Course traces the historical development, current status, and future threats of bioterrorism in the U.S. and on a global scale. Issues adressed include microbiology, surveillance, detection and post-event investigation.
Grade Mode: Normal Grading Mode

FSC 612 Intro Foren Micro/Trace **2 Credit hours**
Introduction to various types of microscopy used in forensics, including scanning electron microscopy, light and fluorescence microscopy and polarizing microscopy. Photographic techniques used for documentation will also be discussed.
Grade Mode: Normal Grading Mode

FSC 615 Adv Crime Investigation **3 Credit hours**
This course addresses various areas of crime scene investigation not or minimally addressed in the FSC 606 introductory course. Topics include arson/explosives, body excavation, forensic entomology. advanced impression evidence, wound analysis.
Pre-req: FSC 606.
Grade Mode: Normal Grading Mode

FSC 617 Adv Crime Photo & Document **2 Credit hours**
This series of lectures and practical exercises introduces the student to sophisticated crime scene documentation techniques including sketching, surveying, photography and crime scene management techniques.
Pre-req: FSC 606.
Grade Mode: Normal Grading Mode

FSC 618 Forensic Comparative Sciences **2 Credit hours**
Introduction to comparative methods used by forensic scientists for analysis of fingerprints, questioned documents, and firearms.
Grade Mode: Normal Grading Mode

FSC 619 Forensic Statistics **3 Credit hours**
Basic theory of probability and statistics, odds from Bayes' theorem for transfer evidence, likelihood ratio, population and statistical genetics, statistical issues in paternity testing and mixtures, and presenting evidence.
Grade Mode: Normal Grading Mode

FSC 622 Forensic Analytical Chem **3 Credit hours**
Analytical chemistry instrumentation and methods used by forensic scientists for analysis of drugs, toxicology, fire debris, explosives, trace evidence and sample collection and processing.
Grade Mode: Normal Grading Mode

FSC 623 Forensic Chemistry Laboratory **1 Credit hour**
Laboratory practicum will develop skill set needed in the forensic analysis of physical evidence using standard methods and modern analytical instrumentation.
Grade Mode: Normal Grading Mode

FSC 624 Biochemistry: Forensic Science **4 Credit hours**
This comprehensive course in biochemistry focuses on concepts appropriate to forensic science and designed to meet forensic science educational standards at a national level.
Grade Mode: Normal Grading Mode

FSC 626 Advanced Drug Analysis **2 Credit hours**
Concentration on modern analytical methods used in the isolation and the identification of illicit drugs and their metabolities in biological samples and other forensic evidence. (PR: FSC 622 or permission of instructor)
Grade Mode: Normal Grading Mode

FSC 627 Human Genetics **2 Credit hours**
Human Genetics serves as an introduction to the study of heritable traits in humans and their molecular basis; basic genetic principles, statistics, and probability; population database analyses; principles of population genetics and laws of Mendelian genetics as they relate to human identification; application of paternity testing and identification of human remains; use of single nucleotide polymorphisms (SNPs) and mtDNA profiling in forensic applications.
Pre-req: FSC 624.
Grade Mode: Normal Grading Mode

FSC 628 Chem Analysis Trace Evidence **2 Credit hours**
A continuation of FSC 622 emphasizing additional types of evidence including paint, inks, fibers, and plastics. Methods Include pyrolysis-GCMS, micro-FTIR, GPC and capillary electrophoresis. Required course for Forensic Chemistry emphasis.
Grade Mode: Normal Grading Mode

FSC 629 Advanced DNA Technologies **2 Credit hours**
This course will provide advanced instruction in DNA technologies to assist in the preparation for a career in a forensic DNA laboratory.
Pre-req: (FSC 603 or FSC 643) and FSC 604.
Grade Mode: Normal Grading Mode

FSC 630 Internship **5 Credit hours**
A 10 week internship in a crime lab or other forensic science related research laboratory. Application of principles and techniques learned during first year of program.
Attributes: Onsite Learning Experience
Grade Mode: Normal Grading Mode

FSC 632 Found Fund Digital Forensics **3 Credit hours**
The course provides fundamental information to lay the foundation for the Digital Forensics Area of Emphasis. A range of topics includes laws and regulations relating to stored digital data, quality assurance and ethics in a digital laboratory, basic terminology, computer hardware and various storage media, software, including operating and file systems, and basics concepts of computer security. The course is taught primarily in a lecture format. Class discussions and participation in practical exercises supplement lectures.
Grade Mode: Normal Grading Mode

FSC 634 Comp Search & Seizure **3 Credit hours**
Topics covered in this course will expand upon material covered in FSC 632. Additional areas include affidavits and warrants, national information security concepts, evidence collection, transport and preservation, computer networks, e-mail traces, imaging of original evidence, introduction to forensic tools, Window registry, malware and spyware, virtualization and hand held devices. Classes are presented in a lecture format and culminates with a mock, digital crime scene exercise.
Grade Mode: Normal Grading Mode

FSC 636 Mobile Phone Forensics **2 Credit hours**
This course addresses the complexity and structure of modern smart phones and focuses on data evidence storage and extraction for criminal case investigations.
Grade Mode: Normal Grading Mode

FSC 640 Firearms Toolmarks I **1 Credit hour**
This course provides an enhanced learning experience designed to reduce the time to competency typical of the knowledge required component fo a firearms examiner training program. FSC 640 is the first of two firearms and toolmarks examiner training courses.
Grade Mode: Normal Grading Mode

FSC 641 Firearms Toolmarks II **1 Credit hour**
This course provides an enhanced learning experience designed to reduce the time to competency typical of the knowledge required component of a firearms examiner training program. FSC 641 is the second of two firearms and toolmarks examiner training courses.
Grade Mode: Normal Grading Mode

FSC 642 DNA Tech Assistance I **2 Credit hours**
The goal of the DNA Technical Assistance Program (DNA TAP) is to prepare select students for placement in host forensic laboratories for validation and evaluation research studies. The student undergoes acclerated lectures and intense hands-on laboratory exercises including analytical procedures, instrument training, and data analysis.
Grade Mode: Normal Grading Mode

FSC 643 DNA Tech Assistance II **2 Credit hours**
The goal of the DNA Technical Assistance Program (DNA TAP) is to prepare select students for placement in host forensic laboratories for validation and evaluation research studies. The student undergoes accelerated lectures and intense hands-on laboratory exercises including analytical procedures, instrument training, and data analysis.
Grade Mode: Normal Grading Mode

FSC 646 Lab Management **2 Credit hours**
This course provides a foundation in management theory, principles & application necessary for forensic scientists who aspire to assume future positions as crime lab supervisors, managers, technical leaders, quality managers, directors or other roles as leaders in their field. This course addresses management theory as well as its practical application to the crime laboratory setting from an ISO/IEC 17025 perspective.
Grade Mode: Normal Grading Mode

FSC 650 Special Topics **1-4 Credit hours**
Present course material on special areas of research or topics which are not routinely covered in existing courses.
Grade Mode: Normal Grading Mode

FSC 651 Special Topics **1-4 Credit hours**
Present course material on special areas of research or topics which are not routinely covered in existing courses.
Grade Mode: Normal Grading Mode

FSC 652 Special Topics **1-4 Credit hours**
Present course material on special areas of research or topics which are not routinely covered in existing courses.
Grade Mode: Normal Grading Mode

FSC 653 Special Topics **1-4 Credit hours**
Present course material on special areas of research or topics which are not routinely covered in existing courses.
Grade Mode: Normal Grading Mode

FSC 660 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

FSC 665 Legal Court in Forensic **3 Credit hours**
Covers the American legal system with specific emphasis on expert witnessing by forensic scientists. Mock trials provide experience in the courtroom.
Grade Mode: Normal Grading Mode

FSC 676 Adv Dig Evid Detect Recovery **2 Credit hours**
This advanced Digital Evidence Detection and Recovery course will provide an overview of the advanced procedures and techniques used by investigators working with digital evidence. This course will be taught as a combination of lectres, lab and practical exercises.
Grade Mode: Normal Grading Mode

FSC 679 Special Problems **1-4 Credit hours**
Students will be assigned specific areas of study for independent investigation. (PR: Consent of advisor)
Grade Mode: Normal Grading Mode

FSC 680 Seminar **1 Credit hour**
Faculty, student and guest speaker presentations of topics pertinent to forensic science.
Grade Mode: Normal Grading Mode

FSC 681 Thesis **1-6 Credit hours**
Research conducted in the laboratories at MU which is focused on a problem of forensic importance. The original research problem will be written up as a formal document and submitted as part of the requirements to fulfill a MS degree in the research track.
Attributes: Onsite Learning Experience, Thesis
Grade Mode: Normal Grading Mode

FSC 685 Intro Research **1-6 Credit hours**
Directed research which can be used to satisfy requirements for a Master's Degree in Forensic Science.
Grade Mode: Normal Grading Mode

French (FRN)

FRN 536 19Th Century Literature **3 Credit hours**
Realistic and naturalistic fiction, realism in theatre, and selected poems of Baudelaire, the Parnassians, and the Symbolists.
Grade Mode: Normal Grading Mode

FRN 580 Special Topics **1-4 Credit hours**
A course for advanced students sufficiently prepared to do constructive work in phases of the language or literature of interest to them.
Grade Mode: Normal Grading Mode

FRN 581 Special Topics **1-4 Credit hours**
A course for advanced students sufficiently prepared to do constructive work in phases of the language or literature of interest to them.
Grade Mode: Normal Grading Mode

FRN 582 Special Topics **1-4 Credit hours**
A course for advanced students sufficiently prepared to do constructive work in phases of the language or literature of interest to them.
Grade Mode: Normal Grading Mode

FRN 583 Special Topics **1-4 Credit hours**
A course for advanced students sufficiently prepared to do constructive work in phases of the language or literature of interest to them.
Grade Mode: Normal Grading Mode

FRN 585 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

FRN 586 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

FRN 587 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

FRN 588 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

Geography (GEO)

GEO 502 Geography of Appalachia **3 Credit hours**
A study of the geography of Appalachia, including landforms, climate, settlement patterns, population, economics, resources, politics, and environmental changes.
Grade Mode: Normal Grading Mode

GEO 504 Geography of Europe **3 Credit hours**
An examination of the geography of Europe focusing on contemporary issues, including climate, culture, economics, environmental change, everyday life, international relations, landforms, language, politics, population, religion, and urbanization.
Grade Mode: Normal Grading Mode

GEO 505 Political Geography **3 Credit hours**
An examination of contemporary patterns, processes, and problems of political geography in global perspective, including globalization, colonialism, imperialism, geopolitics, nationalism, diplomacy, international borders, governance, political representation, and future projections.
Grade Mode: Normal Grading Mode

GEO 506 Population Geography **3 Credit hours**
An examination of contemporary patterns, processes, and problems of population geography in global perspective, including fertility, mortality, demographic change, migration, malnutrition, urbanization, natural resource sustainability, and future projections.
Grade Mode: Normal Grading Mode

GEO 508 Geog of South & Middle America **3 Credit hours**
A study of settlement, transportation, manufacturing agriculture, geopolitics and natural resources of South and Middle American countries.
Grade Mode: Normal Grading Mode

GEO 510 Urban Geography **3 Credit hours**
Study of the evolution, morphology and land use, functions, and problems of urban areas, with emphasis on governance, planning, and the social and environmental impacts of urbanization.
Grade Mode: Normal Grading Mode

GEO 511 Health and Medical Geography **3 Credit hours**
An examination of contemporary issues and problems in health and medical geography, including the spatial aspects of global health, health care policy, and disease origins, diffusion, and ecology.
Grade Mode: Normal Grading Mode

GEO 518 Geography for Educators **3 Credit hours**
A study of the geographic concepts, methods, and technologies essential for effective teaching of geographic content for K-12 social studies teachers and college educators.
Grade Mode: Normal Grading Mode

GEO 522 Environmental Geography **3 Credit hours**
Geographical survey of enviromental changes caused by human activities. Focus on resource availability and use; pollution of air, water, and biosphere; energy problems, and human interaction with natural movement.
Grade Mode: Normal Grading Mode

GEO 523 Cartography & GIS **3 Credit hours**
An introduction to cartography as the cornerstone of geographic information systems/science. Students will learn GIS-based map making, interpretation, and design. The course explores cartographic techniques to represent and visualize data.
Grade Mode: Normal Grading Mode

GEO 524 Transportation Geography **3 Credit hours**
A geographic analysis of transportation and its spatial organization. Concepts, models, and analytical methods related to traffic demand, network configuration, and allocation of transport facilities are covered.
Grade Mode: Normal Grading Mode

GEO 525 Climatology **4 Credit hours**
A study of elements of weather and climate, methods of climatic classification, and distribution and characteristics of world climatic regions.
Grade Mode: Normal Grading Mode

GEO 526 Geographic Information Systems **4 Credit hours**
Geographic Information Systems (GIS) principles, techniques, and applications for the social and natural sciences, emphasizing core geographic concepts through an integrated lecture and lab format.
Grade Mode: Normal Grading Mode

GEO 527 Principles of GIS II **4 Credit hours**
Students apply GIS principles and techniques to geoprocess and manipulate geographic data, including topics such as geodatabase management, python scripting, model building, web mapping and data services, and spatial analysis.
Pre-req: GEO 523 with a minimum grade of D or GEO 526 with a minimum grade of D or GEO 529 with a minimum grade of D or GEO 530 with a minimum grade of D or NRRM 523 with a minimum grade of D or NRRM 533 with a minimum grade of D.
Grade Mode: Normal Grading Mode

GEO 529 GIS Location Analytics **3 Credit hours**
This course explores how Geographic Information Systems (GIS) are used in business for market analysis, site selection, logistics, and data-driven decision-making.
Grade Mode: Normal Grading Mode

GEO 530 Environmental Raster Analysis **4 Credit hours**
Environmental Applications of GIS raster analysis, including local, neighborhood, and zonal operations, terrain analysis, distance modeling, and surface interpolation, data collection and input, and advanced spatial analysis using GIS.
Pre-req: GEO 526 or GEO 529.
Grade Mode: Normal Grading Mode

GEO 531 Remote Sensing & Photogram **4 Credit hours**
Scientific study of the earth using images and data captured using satellite-or aircraft-borne sensors, with emphasis on issues of acquisition, photogrammetric interpretation, spatial analysis, and application.
Grade Mode: Normal Grading Mode

GEO 534 Flood Hazards and GIS **3 Credit hours**
Application of principles of flood hazards preparation, disaster management, and mitigation using Geographic Information Systems (GIS).
Grade Mode: Normal Grading Mode

GEO 550 Extreme Weather **4 Credit hours**
Basics of extreme weather phenomena including hurricanes, tornadoes, floods, droughts, blizzards, and how to mitigate the impacts.
Grade Mode: Normal Grading Mode

GEO 554 Drones:Remote Sensing & GIS **3 Credit hours**
Learn FAA rules and safety procedures; prepare for Remote Pilot licensing exam; operate drones to collect remote sensing data; process imagery for analysis; integrate sUAS imagery with existing GIS data.
Grade Mode: Normal Grading Mode

GEO 580 Special Topics **1-4 Credit hours**
Selected geography subjects to cover unusual geography topics not in the regular course offerings of the department.
Grade Mode: Normal Grading Mode

GEO 581 Special Topics **1-4 Credit hours**
Selected geography subjects to cover unusual geography topics not in the regular course offerings of the department.
Grade Mode: Normal Grading Mode

GEO 582 Special Topics **1-4 Credit hours**
Selected geography subjects to cover unusual geography topics not in the regular course offerings of the department.
Grade Mode: Normal Grading Mode

GEO 583 Special Topics **1-4 Credit hours**
Selected geography subjects to cover unusual geography topics not in the regular course offerings of the department.
Grade Mode: Normal Grading Mode

GEO 585 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

GEO 586 Independent Study **1-4 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

GEO 587 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

GEO 588 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

GEO 601 Colloquium in Geography **1-3 Credit hours**
Speaker series introducing and sharing knowledge and experiences with geographic focus. Students are to learn from the knowledge and experience of faculty members, graduate students, alumni, and scholars.
Grade Mode: Credit/No Credit Grade Only

GEO 607 Economic Geography **3 Credit hours**
Topics in economic geography including industrial location, transportation systems, economic development, international trade relationships and globalism.
Grade Mode: Normal Grading Mode

GEO 615 Geographic Thought **3 Credit hours**
Survey of the history, literature, prominent individuals, and major paradigms in geography. Review of the major concepts in geography and an introduction to various methods of geographic inquiry.
Grade Mode: Normal Grading Mode

GEO 616 Geographical Research Methods **3 Credit hours**
Students examine/practice four research methods in geography--qualitative, quantitative, GIScience, and field/lab methods--and learn to choose among them and use them for their own research and analysis.
Grade Mode: Normal Grading Mode

GEO 617 Seminars in Geography **1-4 Credit hours**
Selected geography subjects/topics not included in the regular course offerings of the department are considered, using a seminar approach to learning.
Grade Mode: Normal Grading Mode

GEO 618 Seminars in Geography **1-4 Credit hours**
Selected geography subjects/topics not included in the regular course offerings of the department are considered, using a seminar approach to learning.
Grade Mode: Normal Grading Mode

GEO 619 Seminars in Geography **1-4 Credit hours**
Selected geography subjects/topics not included in the regular course offerings of the department are considered, using a seminar approach to learning.
Grade Mode: Normal Grading Mode

GEO 620 Problems in Environ Geog **3 Credit hours**
Geographic aspects of world environmental problems including such topics as global warming, acid rain, energy supplies, population growth and soil depletion.
Grade Mode: Normal Grading Mode

GEO 623 Regions of North America **3 Credit hours**
This seminar course examines regional geographies of North America with an emphasis on the research and methods for delineation of regions.
Grade Mode: Normal Grading Mode

GEO 631 Applied GIS Projects **3 Credit hours**
Use of advanced GIS techniques to solve community-service research problems.
Pre-req: GEO 530.
Grade Mode: Normal Grading Mode

GEO 634 GIS Databases & Programming **3 Credit hours**
Configuration and management of geospatial databases. Python scripting for analysis, geoprocessing, and workflow automation within a GIS environment.
Grade Mode: Normal Grading Mode

GEO 640 Spatial Statistics using GIS **4 Credit hours**
This course equips students with the skills to understand, apply, and critically evaluate geostatistical methods in GIS, emphasizing spatial data analysis, model development, visualization, and real-world problem-solving.
Pre-req: GEO 526 with a minimum grade of C or GEO 529 with a minimum grade of C or GEO 530 with a minimum grade of C.
Grade Mode: Normal Grading Mode

GEO 660 Weather Analysis **4 Credit hours**
Introduction to reading weather maps and meteorological analysis techniques including satellite and radar image interpretation and numerical weather prediction.
Grade Mode: Normal Grading Mode

GEO 679 Portfolio and Career Profile **1-4 Credit hours**
Students compile a Portfolio of work completed during the degree program, complete a written exam project, and create/enhance their Career Profile.
Pre-req: GEO 615 with a minimum grade of C and GEO 616 with a minimum grade of C.
Grade Mode: Normal Grading Mode

GEO 681 Thesis **1-6 Credit hours**
Attributes: Thesis
Grade Mode: Normal Grading Mode

GEO 690 Internship in Geography **1-6 Credit hours**
Student will be employed a minimum of 300 hours with an agency approved by geography department. Faculty advisor and agency will consult periodically on student progress.
Attributes: No Textbook Required, Onsite Learning Experience
Grade Mode: Credit/No Credit Grade Only

Geology (GLY)

GLY 510 Big Bend Field Excursion **2 Credit hours**
Field trip to Big Bend National Park, Texas to study the structure, stratigraphy, igneous geology, metamorphic geology, paleontology and natural history of this national park.
Grade Mode: Normal Grading Mode

GLY 518 Invertebrate Paleontology **4 Credit hours**
Taxonomy, morphology, and paleoecology of body and trace fossils representing the major invertebrate phyla; analysis and interpretation of faunal assemblages; evolution and extinction of species. (PR: GLY 201)
Grade Mode: Normal Grading Mode

GLY 520 Geochemistry **3 Credit hours**
Introduction to the principles of geochemistry. The application of chemistry to the study of the earth and to geologic problems.
Grade Mode: Normal Grading Mode

GLY 521 Petrology **4 Credit hours**
Identification and classification of igneous, sedimentary and metamorphic rocks, their origin and occurrence; their geologic and economic. 2 lec-4 lab.
Grade Mode: Normal Grading Mode

GLY 523 Sedimentary Petrography **4 Credit hours**
Megascopic and microscopic identification and a depositional and post-depositional interpretation of the sedimentary rocks. 3 lec-2 lab.
Grade Mode: Normal Grading Mode

GLY 527 Fossil Fuels **4 Credit hours**
The origin and occurrence of petroleum, coal, and natural gas; the relationships of accumulations to depositional environments and structural history; methods used in exploration, evaluation and recovery. 3 lec-2 lab.
Pre-req: GLY 200.
Grade Mode: Normal Grading Mode

GLY 530 Computer Methods Geology **4 Credit hours**
The computer will be used for compilation, reduction, data analysis and modelling from a wide range of geological problems. Existing and student developed programs will be used.
Grade Mode: Normal Grading Mode

GLY 551 Principles Geomorphology **4 Credit hours**
Identification and analysis of the earth's surficial features in terms of stratigraphy, structure, processes, tectonics, and time. 3 lec 2 lab.
Grade Mode: Normal Grading Mode

GLY 555 Hydrogeology **3 Credit hours**
The properties of water, the hydrologic cycle with emphasis on surface and groundwater processes. The uses, needs and problems associated with water resources.
Grade Mode: Normal Grading Mode

GLY 555L Hydrogeology Laboratory **1 Credit hour**
Laboratory and field experiments studying principles and concepts of hydrology. 2 lab.
Grade Mode: Normal Grading Mode

GLY 556 Environmental Geology **4 Credit hours**
Consideration of risks posed by natural geo-hazards and from physical/chemical contamination of geological media.
Grade Mode: Normal Grading Mode

GLY 557 Engineering Geology **4 Credit hours**
Consideration of geotechnical problems faced by geologists and engineers. Major topics include mechanics and classification of soil and rock, and geotechnical aspects of groundwater.
Grade Mode: Normal Grading Mode

GLY 580 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

GLY 581 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

GLY 582 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

GLY 583 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

GLY 585 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

GLY 586 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

GLY 587 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

GLY 588 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

GLY 640 Physical Aspects Geology **1-4 Credit hours**
Grade Mode: Normal Grading Mode

GLY 641 Biological Aspect Geology **1-4 Credit hours**
Grade Mode: Normal Grading Mode

GLY 642 Chemical Aspects Geology **1-4 Credit hours**
Grade Mode: Normal Grading Mode

GLY 681 Thesis **1-6 Credit hours**
Attributes: Onsite Learning Experience, Thesis
Grade Mode: Normal Grading Mode

Health Care Administration (HCA)

HCA 600 The Health Care System **3 Credit hours**
This course is designed to provide managers with in-depth knowledge of the current health care system, covering the structure and delivery of care, the providers and payers, and the various players in the system. The internal and external forces impacting the system are discussed. Problems in the health care system are explored and evaluated with respect to the issues of access, cost, and effectiveness.
Grade Mode: Normal Grading Mode

HCA 610 Health Care Financial Mgt **3 Credit hours**
Course provides an overview of health care financial management, with special emphasis upon the aspects of financial systems in hospitals that differ from typical financial systems. It includes analysis of capital formation cash flow management and determination of working capital requirements. (PR: HCA 600)
Pre-req: HCA 600 with a minimum grade of C.
Grade Mode: Normal Grading Mode

HCA 611 QUANT METHODS IN HEALTH CARE M **1 Credit hour**

HCA 615 Health Care Econ **3 Credit hours**
The health care industry is unique. Unlike in other markets, the consumer finds it difficult to evaluate quantity, quality, and pricing. Traditional market forces are modified by government, third-party payers, and professional interests. This course applies economic principles to this unique environment.
Pre-req: HCA 600 with a minimum grade of C.
Grade Mode: Normal Grading Mode

HCA 620 Ethical Dimensions/Hlth Care **3 Credit hours**
Emphasis in this course is on the way managers in health care settings incorporate ethical dimensions into their decision-making. It looks at the wide variety of ethical issues faced by these managers, focusing on those related specifically in the decisions they make about their organization, personnel, and services. Specifically covered are issues regarding all allocation of scarce resources, the type and availability of care for special populations, and conflicts of interest. (PR: HCA 600)
Pre-req: HCA 600 with a minimum grade of C or HCA 600G with a minimum grade of C.
Grade Mode: Normal Grading Mode

HCA 622 Utilization of HSR **3 Credit hours**
Provides an introduction to methods of undertaking research and program evaluation within health services organizations and delivery systems.
Pre-req: HCA 600 with a minimum grade of C and MKT 511 with a minimum grade of C.
Grade Mode: Normal Grading Mode

HCA 630 Legal Issues/Health Care Mgt **3 Credit hours**
This course provides students with a legal framework to analyze health care organizations and their operations. The federal and state legal systems are reviewed and regulatory programs and their requirements discussed. Topics include: tax exemptions, antitrust laws, corporate liability, provider-patient legal issues (contracts and negligence), patient rights, facilities licensure and accreditation, and reimbursement issues. Court cases, as well as governmental agency rulings and findings, are analyzed for their applications to health care management.
Grade Mode: Normal Grading Mode

HCA 640 The Health Care Professional **3 Credit hours**
This course presents an overview of various professional and managerial topics relevant to the health care professional. Each offering of the course focuses on a particular health profession. Emphasis is on defining the profession, understanding its historical development and evolution, examining professional roles, tasks, responsibilities, and accountabilities in current practice, studying the interaction with other professionals, delineating the parameters of the professional in ethical decision-making, and recognizing and responding to challenges faced in contemporary practice and in planning for the future.
Grade Mode: Normal Grading Mode

HCA 641 Clinical Experiences at CAMC **3-9 Credit hours**
Grade Mode: Credit/No Credit Grade Only

HCA 650 Comparative Health Systems **3 Credit hours**
A survey of health care provision systems throughout the world.
Pre-req: HCA 600 with a minimum grade of C.
Grade Mode: Normal Grading Mode

HCA 651 Health Care Operations **3 Credit hours**
Investigation of the use of operations managment techniques and methodologies that are useful in the health care industry.
Pre-req: HCA 600 with a minimum grade of C.
Grade Mode: Normal Grading Mode

HCA 652 Health Care Finance **3 Credit hours**
Examination of the various financial systems present within the American health care systems. Special emphasis placed upon the management of assets, cost control, and budgeting.
Pre-req: HCA 600 with a minimum grade of C.
Grade Mode: Normal Grading Mode

HCA 653 Integrated Health Care Del Sys **3 Credit hours**
Provides an in-depth knowledge of health care delivery systems with emphasis on the major managerial issues faced by integrated delivery systems.
Pre-req: HCA 600 with a minimum grade of C.
Grade Mode: Normal Grading Mode

HCA 654 Human Res Manage in Hlth Care **3 Credit hours**
Investigation of the human resource function found withiin contemporary health care provision systems. Discussion of future challenges facing the function in this turbulent environment.
Pre-req: HCA 600 with a minimum grade of C.
Grade Mode: Normal Grading Mode

HCA 655 Health Care Marketing **3 Credit hours**
An investigation of the role of marketing in today's health care organizations. Specific topics include market segmentation, consumer behavior, promotion, and environmental analysis.
Pre-req: HCA 600 with a minimum grade of C.
Grade Mode: Normal Grading Mode

HCA 656 Mgt of Medical Technology **3 Credit hours**
An investigation of the place technology, primarialy hard technology plays in the formulation of health care policy and strategies. Special emphais placed on the management of medical information systems.
Pre-req: HCA 600 with a minimum grade of C.
Grade Mode: Normal Grading Mode

HCA 657 Health Care Law and Policy **3 Credit hours**
An examination of the legal, regulatory, and policy-making interactions between government, society, and health care organizations and providers.
Pre-req: HCA 600 with a minimum grade of C.
Grade Mode: Normal Grading Mode

HCA 658 Long Term Care **3 Credit hours**
Examination of the range of health and social services that are needed to compensate for the functional disabilities of people. Review of available services and governmental policies and regulations.
Pre-req: HCA 600 with a minimum grade of C.
Grade Mode: Normal Grading Mode

HCA 659 Rural Health Care **3 Credit hours**
An investigation of how health care is provided to rural Americans. Special attention given to the health care systems that provide medical care to the peoples of Appalachia.
Pre-req: HCA 600 with a minimum grade of C.
Grade Mode: Normal Grading Mode

HCA 671 Health Care Practicum **1-6 Credit hours**
Project-oriented experience in health care operations and organizations. Intended for those students with insufficient experience in the field.
Pre-req: HCA 600 with a minimum grade of C.
Attributes: Onsite Learning Experience
Grade Mode: Normal Grading Mode

HCA 695 Fld Res/Health Care Mgt **3 Credit hours**
In this course, each student selects an in-depth organizational research project on a particular management problem in a health care organization. In this "hands-on" project, the student services as a consultant to the health care organization, conducting research, analyzing data, and making recommendations for the solution(s) to the management problem. Projects focus on such topics as strategic planning, productivity, quality assurance, risk management, and joint ventures. Field research projects are selected in conjunction with the program coordinator during the semester prior to course enrollment. (PR: Completion of all 600-level required HCA courses, plus permission of program director)
Pre-req: HCA 600 with a minimum grade of C.
Grade Mode: Normal Grading Mode

HCA 697 Topics Health Care Admin **3 Credit hours**
The course is designed to allow group study of selected topics of current interest in health care management. (PR: Consent of instructor)
Pre-req: HCA 600 with a minimum grade of C.
Grade Mode: Normal Grading Mode

HCA 698 Indpndnt Study-Hlth Care Admn **1-3 Credit hours**
Pre-req: HCA 600 with a minimum grade of C or HCA 600G with a minimum grade of C.
Grade Mode: Normal Grading Mode

HCA 699 Seminar in Health Care Admin **3 Credit hours**
Grade Mode: Normal Grading Mode

HCA 750 Field Research/Health Care Mgt **3 Credit hours**
Pre-req: (HCA 610 with a minimum grade of C or HCA 610G with a minimum grade of C) and (HCA 620 with a minimum grade of C or HCA 620G with a minimum grade of C) and (HCA 630 with a minimum grade of C or HCA 630G with a minimum grade of C).
Grade Mode: Normal Grading Mode

HCA 797 Thesis **6 Credit hours**
Attributes: Thesis
Grade Mode: Normal Grading Mode

Health Education (HE)

HE 561 Professional Development **1-4 Credit hours**
Courses and activities designed to meet the specific inservice neds of public school personnel. Credit in these courses may be used for certifiate renewal and salary upgrading if approved but not for degrees.
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

HE 640 Health Eval for the Ath Trn **3 Credit hours**
An indepth study of common problems and complaints of athletes and the proper method of evaluating those complaints.
Grade Mode: Normal Grading Mode

Health Informatics (HIN)

HIN 535 Applied Healthcare DB **3 Credit hours**
To understand the logical and physical design of data stored and retrieved from relational databases, how it applies to healthcare, and how HIM professionals can effectively communicate business requirements.
Grade Mode: Normal Grading Mode

HIN 545 Healthcare Data Analytics **3 Credit hours**
The course focuses on the systems, techniques, strategies and methods of big data analysis, data mining and machine learning algorithms and data visualization in healthcare settings.
Grade Mode: Normal Grading Mode

HIN 605 The Role of EHR and PHR **3 Credit hours**
Students will be introduced to the main concepts and software applications of Electronic Health Records and Personal Health Records.
Grade Mode: Normal Grading Mode

HIN 610 Intro to Health Informatics **3 Credit hours**
Introductory health informatic tools for data analysis and administrative decision-making including for example, Excel, Tableau, and machine learning.
Grade Mode: Normal Grading Mode

HIN 615 Health Quality and Safety **3 Credit hours**
Provide an experience that will prepare students to work effectively in professional positions, and to bridge the learning gained in course work with the world of practice.
Grade Mode: Normal Grading Mode

HIN 620 Legal Health & Informat **3 Credit hours**
The course will introduce students to IT governance, health information ethic and legal requirements to improve health care processes, customer response and business competitiveness.
Grade Mode: Normal Grading Mode

HIN 630 Research Methods and Data **3 Credit hours**
The course will introduce a compendium of methods for evaluation of IT-based systems and solutions within health care. Students will acquire knowledge in research process.
Grade Mode: Normal Grading Mode

HIN 650 Health Informatics Practicum **3 Credit hours**
Provide an experience to prepare students to work effectively in professional positions, and bridge the learning gained in course work with the world of practice.
Pre-req: HIN 605 with a minimum grade of C and HCA 656 with a minimum grade of C.
Attributes: Onsite Learning Experience
Grade Mode: Normal Grading Mode

HIN 664 Advanced Health Informatics **3 Credit hours**
Advanced aspects and use of health informatic tools, including management and analysis of data, modeling and simulation, data communications, on-line databases, clinical decision analysis, and enterprise systems.
Grade Mode: Normal Grading Mode

HIN 665 Health Care Enterpr Info Syste **3 Credit hours**
A hands-on introduction to using a health care enterprise information system providing students opportunity to work with elements of an EIS.
Grade Mode: Normal Grading Mode

HIN 685 Independent Study **1-4 Credit hours**
Independent Study relates to projects that do not fall specifically within an individual department's curriculum.
Grade Mode: Normal Grading Mode

HIN 686 Independent Study **1-4 Credit hours**
Independent Study relates to projects that do not fall specifically within an individual department's curriculum.
Grade Mode: Normal Grading Mode

HIN 687 Independent Study **1-4 Credit hours**
Independent Study relates to projects that do not fall specifically within an individual department's curriculum.
Grade Mode: Normal Grading Mode

HIN 688 Independent Study **1-4 Credit hours**
Independent Study relates to projects that do not fall specifically within an individual department's curriculum.
Grade Mode: Normal Grading Mode

Health Professions (HP)

HP 605 The Role of EHR and PHR **3 Credit hours**
Students will be introduced to the main concepts and software applications of Electronic Health Records and Personal Health Records.
Grade Mode: Normal Grading Mode

HP 610 Analytics for Healthcare **3 Credit hours**
Data analytic tools useful in healthcare data analysis and healthcare administrative decision-making including health data analysis, visualization, and reporting techniques.
Grade Mode: Normal Grading Mode

HP 615 Health Quality and Safety **3 Credit hours**
Provide an experience that will prepare students to work effectively in professional positions, and to bridge the learning gained in course work with the world of practice.
Grade Mode: Normal Grading Mode

HP 620 Legal Health & Informat **3 Credit hours**
The course will introduce students to IT governance, health information ethic and legal requirements to improve health care processes, customer response and business competitiveness.
Grade Mode: Normal Grading Mode

HP 630 Research Methods and Data **3 Credit hours**
The course will introduce a compendium of methods for evaluation of IT-based systems and solutions within health care. Students will acquire knowledge in research process.
Grade Mode: Normal Grading Mode

HP 650 Health Infor Practicum **3 Credit hours**
Provide an experience to prepare students to work effectively in professional positions, and bridge the learning gained in course work with the world of practice.
Pre-req: HP 605 and HCA 656.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

HP 686 Independent Study **1-4 Credit hours**
Independent Study relates to projects that do not fall specifically within an individual department's curriculum.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

HP 687 Independent Study **1-4 Credit hours**
Independent Study relates to projects that do not fall specifically within an individual department's curriculum.
Grade Mode: Normal Grading Mode

HP 688 Independent Study **1-4 Credit hours**
Independent Study relates to projects that do not fall specifically within an individual department's curriculum.
Grade Mode: Normal Grading Mode

Health Science (HS)

HS 505 Sport Psychology **3 Credit hours**
An examination of theory, research, and application of psychological principles related to sport and exercise.
Grade Mode: Normal Grading Mode

HS 510 Org and Admin in Kinesiology **3 Credit hours**
This course investigates current trends in administration and organization in Kinesiology. Areas considered include but are not limited to policy planning, leadership, ethics, management, and current organizational trends in Kinesiology.
Grade Mode: Normal Grading Mode

HS 512 Found Clinical Skills in AT **3 Credit hours**
Taping, bracing, spine boarding, airway and oxygen administration, and other advanced emergency and practical care techniques used in athletic training. (PR: program admissions; CR: HS 522)
Grade Mode: Normal Grading Mode

HS 515 Ath Trng Clinical Exp I **1-3 Credit hours**
To develop evaluation and treatment skills of the student under the direction of a BOC-certified Athletic Trainer. Requires completion of clinical hours and assigned competencies.
Grade Mode: Normal Grading Mode

HS 523 Ortho Assess Upper Extremity **4 Credit hours**
Orthopedic evaluation techniques of the neck and upper extremity for the athletic trainer.
Grade Mode: Normal Grading Mode

HS 524 Ortho Assess Lower Extremity **4 Credit hours**
Orthopedic evaluation techniques of the lower extremity for the athletic trainer.
Grade Mode: Normal Grading Mode

HS 525 Ath Trng Clinical Exp II **3 Credit hours**
To continue developing athletic training evaluation and treatment skills under the direction of a BOC-certified Athletic trainer. (PR: grade of B or higher in HS 515 and 75 clinical hours)
Pre-req: HS 515.
Grade Mode: Normal Grading Mode

HS 535 Biomech Programs Applications **3 Credit hours**
Students will develop computer programming skills by designing and writing code to process and analyze the biomechanical data they collect. Students will transfer the functions they write to various applications.
Grade Mode: Normal Grading Mode

HS 548 Therapeutic Interventions I **4 Credit hours**
Students in this course will be instructed in therapeutic modalities used in the initial stages of injury, and therapeutic exercise rehabilitation of the lower extremity and lumbar spine. Special emphasis is given to the decision making processes involved with modality and exercise selection and parameter adjustment based upon patient pathologic responses and desired patient outcomes.
Grade Mode: Normal Grading Mode

HS 549 Therapeutic Interventions II **4 Credit hours**
Students in this course will be instructed in electrical stimulation modalities and therapeutic exercise rehabilitation of the upper extremity and cervical spine. Post surgical rehabilitation for both upper and lower extremities and the spine will be incorporated. Special emphasis is given to the decision making processes involved with modality and exercise selection and parameter adjustment based upon patient pathologic responses and desired patient outcomes.
Grade Mode: Normal Grading Mode

HS 560 Professional Development **1-4 Credit hours**
Courses and activities designed to meet the specific inservice needs of publlic school personnel. Credit in thes courses may be used for certificate renewal and salary upgrading if approved but not for degrees.
Grade Mode: Normal Grading Mode

HS 561 Professional Development **1-4 Credit hours**
Courses and activities designed to meet the specific inservice needs of public school personnel. Credit in these courses may be used for certificate renewal and salary upgrading if approved but not for degrees.
Grade Mode: Normal Grading Mode

HS 562 Professional Development **1-4 Credit hours**
Courses and activities designed to meet the specific inservice needs of public school personnel. Credit in these courses may be used for certificate renewal and salary upgrading if approved but not for degrees.
Grade Mode: Normal Grading Mode

HS 563 Professional Development **1-4 Credit hours**
Courses and activities designed to meet the specific inservice needs of public school personnel. Credit in these courses may be used for certificate renewal and salary upgrading if approved but not for degrees.
Grade Mode: Normal Grading Mode

HS 564 Professional Development **1-4 Credit hours**
Courses and activities designed to meet the specific inservice needs of public school personnel. Credit in these courses may be used for certificate renewal and salary upgrading if approved but not for degrees.
Grade Mode: Normal Grading Mode

HS 565 Pathomechanics **3 Credit hours**
An investigation into normal and abnormal human movement patterns in sport, the workplace, and in activities of daily living.
Grade Mode: Normal Grading Mode

HS 566 Biomechanical Analysis **3 Credit hours**
The purpose of the course is to provide an advanced study of biomechanical concepts and their application to human movement and sport skills.
Grade Mode: Normal Grading Mode

HS 576 Seminar in Sports Science **3 Credit hours**
This course examines concepts related to acquiring, analyzing, and interpreting data relevant to human performance outcomes within sports, exercise, tactical operations, and medical return to play.
Grade Mode: Normal Grading Mode

HS 578 Biomech Research Pract **1-6 Credit hours**
This course offers "hands-on" work within the biomechanics lab. The student will assist with current research. This experience that allows students to gain practical experience within a lab setting.
Grade Mode: Normal Grading Mode

HS 580 Special Topics **1-4 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

HS 581 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

HS 582 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

HS 583 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

HS 584 Special Topics in Health **1-4 Credit hours**
Grade Mode: Normal Grading Mode

HS 585 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

HS 586 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

HS 587 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

HS 588 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

HS 589 Independent Study **3 Credit hours**
Grade Mode: Normal Grading Mode

HS 591 Workshop in Phys Ed **1-3 Credit hours**
Grade Mode: Normal Grading Mode

HS 592 Workshop in Phys Ed **1-3 Credit hours**
Grade Mode: Normal Grading Mode

HS 595 Trends in Biomechanics 2 **3 Credit hours**
The purpose of this course is to expose the student to the research process as it pertains to the field of biomechanics. This course is intended to continue the process started in HS 575.
Pre-req: HS 575.
Grade Mode: Normal Grading Mode

HS 609 Org & Admin Athletic Training **3 Credit hours**
This course will investigate current trends in administration and organization in the field of athletic training. Focus will be placed on current state/federal practice laws and the financial management of running an athletic training clinic.
Grade Mode: Normal Grading Mode

HS 610 Adv Biomechanics **3 Credit hours**
An advance investigation into Newtonian mechanics and their application in their uses human movement analysis.
Pre-req: HS 566 with a minimum grade of C.
Grade Mode: Normal Grading Mode

HS 615 Kinematic Analysis App Biomech **3 Credit hours**
This course entails a study of kinematics as it relates to the analysis of human movement involving the mechanical and anatomical characteristics of physical skills through the utilization of research equipment.
Grade Mode: Normal Grading Mode

HS 620 Subst Abuse & the Athlete **3 Credit hours**
Grade Mode: Normal Grading Mode

HS 623 Adv Medical Aspect Sports **3 Credit hours**
Emphasis on the development of skills in recognition of symptoms of illness, injuries and proper procedures of medical care.
Grade Mode: Normal Grading Mode

HS 625 Evdnce Base Prac Ther Elec Agt **3 Credit hours**
An in-depth understanding of therapeutic modalities with an emphasis on evidence based literature.
Grade Mode: Normal Grading Mode

HS 630 Seminar Athl Training **3 Credit hours**
A course designed to use scientific literature to enhance students preparation and knowledge of athletic training.
Grade Mode: Normal Grading Mode

HS 634 Ath Trng Externship **3 Credit hours**
Approved externship supervised by a clinical preceptor. Requires 225 clinical hours that includes an immersion experience. (PR: HS 645, program permission)
Pre-req: HS 645 with a minimum grade of C.
Grade Mode: Normal Grading Mode

HS 635 Kinetics in Biomech **3 Credit hours**
Students will gain knowledge regarding biomechanics technologies to measure kinetics, acquire the skills to investigate forces and the human body, and learn how to process, analyze, and interpret kinetic data.
Grade Mode: Normal Grading Mode

HS 639 Exam of Gen Med Conditions **3 Credit hours**
A study of common general medical conditions and illnesses of physically active individuals and the proper methods of evaluating these complaints.
Grade Mode: Normal Grading Mode

HS 640 Health Eval for the Ath Trn **3 Credit hours**
An indepth study of common problems and complaints of athletes and the proper method of evaluating those complaints.
Grade Mode: Normal Grading Mode

HS 645 Ath Trng Clinical Exp III **3 Credit hours**
To continue developing athletic training evaluation and treatment skills under the direction of a BOC-certified athletic trainer and/or other qualified allied health professionals. (PR: grade of B or higher in HS 525 and 225 clinical hours)
Pre-req: HS 525 with a minimum grade of C.
Grade Mode: Normal Grading Mode

HS 646 Athletic Training I **3 Credit hours**
Training in the diagnosis of injuries in athletics. The student will be expected to participate in diagnosis techniques under the supervision of a trainer.
Grade Mode: Normal Grading Mode

HS 647 Athletic Training II **3 Credit hours**
Professional aspects of trainer-doctor and doctor-athlete relations will be taught and exploration of how to professionally handle injuries and cooperate with physicians.
Grade Mode: Normal Grading Mode

HS 650 Human Gait **3 Credit hours**
An investigation into normal and abnormal human gait patterns in activities of daily living.
Pre-req: ESS 564 or HS 564.
Grade Mode: Normal Grading Mode

HS 655 Ath Trng Clinical Exp IV **3 Credit hours**
Capstone clinical experience supervised by an MD, PT, PA, or ATC at an approved site. Requires 150 clinical hours. (PR: grade of B or higher in HS 645 and 225 clinical hours)
Pre-req: HS 645.
Grade Mode: Normal Grading Mode

HS 657 Adv Trn/Certs **1-3 Credit hours**
This course allows the student to participate in advanced training and certification courses such as the Functional Movement Screening, Performance Enhancement Specialist, and others that may be offered each year.
Grade Mode: Normal Grading Mode

HS 660 Internship **3-6 Credit hours**
Practical experince in a clinical setting.
Grade Mode: Normal Grading Mode

HS 665 Sports Science Practicum **3-6 Credit hours**
This course will provide supervised practical experience in the area of sports science. Students will be provided with the opportunity to apply their knowledge of sports science, performance, and testing/monitoring in an athletic setting.
Grade Mode: Normal Grading Mode

HS 679 Trends in Athletic Training **3 Credit hours**
To investigate current trends with regard to evidence based practice, current practice position statements, and current research methods being utilized in athletic training.
Grade Mode: Normal Grading Mode

HS 680 Graduate Project in AT **3 Credit hours**
This course involves supervised development of a one-semester scholarly, entrepreneurial or administrative project that synthesizes the student's educational and clinical experiences obtained while matriculating through the PMSAT program.
Pre-req: HS 655 with a minimum grade of C.
Co-req: HS 630, HS 634
Grade Mode: Normal Grading Mode

HS 681 Thesis **1-6 Credit hours**
Attributes: Thesis
Grade Mode: Normal Grading Mode

Historical Studies-Humanities (HIST)

HIST 514 EUROPEAN DIPL HIST 1919-PRESEN **3 Credit hours**

HIST 559 RECENT AMERICAN HISTORY **3 Credit hours**

HIST 580 Ethnic Hist of West Virginia **3 Credit hours**
This course focuses on the contributions that individuals and groups with diverse ethnic backgrounds have made to the economic, social, and cultural history of the state.
Grade Mode: Normal Grading Mode

HIST 585 Coal Mine Life/Work/Culture **3 Credit hours**
This course provides students with a better understanding of the continuing economic, political, environmental and cultural impact which the extraction of coal has had on West Virginia.

HIST 600 Selected Topics/Hist Studies **1-6 Credit hours**
Selected topics in history. The specific topic will be announced in the schedule of classes. Students may take up to nine hours in selected topics.
Grade Mode: Normal Grading Mode

HIST 601 Historic Preservation **3 Credit hours**
Course broadens historical awareness and provides practical applications of historical knowledge. It covers the built environment and focuses on the history, processes and legal basis of the historic preservation movement.
Grade Mode: Normal Grading Mode

HIST 602 SEMINAR IN HISTORICAL STUDIES **3 Credit hours**

HIST 610 SELECTED TOPICS IN BRITISH HIS **1 Credit hour**

HIST 620 Civil War & Reconstruction **3 Credit hours**
This course examines the complex causes and lasting effects of the American Civil War. Issues such as slavery, sectionalism, emancipation and Reconstruction will receive attention.

HIST 650 THE IDEA OF THE AMER FRONTIER **3 Credit hours**

HIST 680 SELECTED TOPICS IN W. VA. HIST **1 Credit hour**

History (HST)

HST 501 History of Appalachia **3 Credit hours**
This course will explore the historical and historiographical development of Appalachia and the economic, political, and cultural forces that have shaped the lives and communities of mountaineers.
Grade Mode: Normal Grading Mode

HST 505 Amer Diplomacy 1900-Pres **3 Credit hours**
American foreign relations in the 20th century. The gradual retreat from isolation in the period between World Wars I and II and modern American involvement in international commitments will be stressed.
Grade Mode: Normal Grading Mode

HST 506 Tudor & Stuart England **3 Credit hours**
A history of England under the Tudors and Stuarts, focusing primarily on demographic, social, cultural, and political developments.
Grade Mode: Normal Grading Mode

HST 507 History of Sexuality **3 Credit hours**
Examines the history of sexuality in North America in the context of cultural, legal, economic, political, and social history from the 16th century to the present.
Grade Mode: Normal Grading Mode

HST 508 History of LGBT Peoples **3 Credit hours**
A survey of gay, lesbian, bisexual and transgender history in the United States from the colonial period to the present.
Grade Mode: Normal Grading Mode

HST 509 American Revolution **3 Credit hours**
A varied view of the American Revolution and its impact on the American people.
Grade Mode: Normal Grading Mode

HST 513 Hist Old South 1492-1860 **3 Credit hours**
The History of the Old South is a study of the political, economic,social, and cultural conditions in the South that led to the development of the South as a distinct section in the United States.
Grade Mode: Normal Grading Mode

HST 514 Am Civil War & Reconstruction **3 Credit hours**
This course explores the causes, fighting, outcomes, and historical memory of the bloodiest war in US history.
Grade Mode: Normal Grading Mode

HST 515 Hist New South 1877-Pres **3 Credit hours**
The History of the New South is a study of the political, economic, social, and cultural changes in the South after reconstruction that explain conditions in the contemporary South.
Grade Mode: Normal Grading Mode

HST 517 U.S. West to 1900 **3 Credit hours**
A study of the social, cultural, political, and economic history of the US West to 1900, along with West's place in our public memory.
Grade Mode: Normal Grading Mode

HST 521 Renaissance & Reformation **3 Credit hours**
The impact of the Renaissance upon esthetic, economic, and political developments especially in the 15th and 16th centuries. The decline of Catholicism and the growth of the Protestant movement, and the influence of the two movements upon each other is stressed.
Grade Mode: Normal Grading Mode

HST 524 US Science & Technology **3 Credit hours**
A study of the development and impact of science and techology in the U.S.
Grade Mode: Normal Grading Mode

HST 525 European Hist 1814-1914 **3 Credit hours**
A century of European political, economic, and social history. Its relationship to and influence upon the history of other world areas is noted. The impact of imperalistic rivalry is emphasized.
Grade Mode: Normal Grading Mode

HST 527 The World at War **3 Credit hours**
This course explores the Second World War. It probes the nexus of diplomacy, politics, ideology, military strategy and operations, economics, and technological innovation that generated a truly global "total war."
Grade Mode: Normal Grading Mode

HST 528 Intel & Cult Hist Mod Europe **3 Credit hours**
A survey of the main currents in European thought and culture in the 19th and 20th centuries.
Grade Mode: Normal Grading Mode

HST 529 Russia to 1917 **3 Credit hours**
A survey of Russian history to 1917 which examines Russia before the Russians, Kievan Russia, Appanage Russia, Muscovite Russia and Imperial Russia. Emphasis is on Imperial Russia.
Grade Mode: Normal Grading Mode

HST 530 Soviet Russia and Beyond **3 Credit hours**
The rise and fall of the Soviet Union, with emphasis on political and exonomic changes and Soviet foreign policy, and including an examination of the aftermath of the Soviet Union's collapse.
Grade Mode: Normal Grading Mode

HST 531 America in the Gilded Age **3 Credit hours**
A study of America's transformation from a rural, agrarian nation into an urban, industrial world power, the final destruction of the American Indian, the settlement of the West, and the farmers' revolt.
Grade Mode: Normal Grading Mode

HST 534 The Vietnam War **3 Credit hours**
A study of the origin and escalation of American involvement in Vietnam, the domestic impact of the war within the United States and the collapse of the South Vietnamese government.
Grade Mode: Normal Grading Mode

HST 535 Modern Japan **3 Credit hours**
Begins with an overview of nineteenth century Japan and stresses the twentieth century rise of Japan to the position of world power.
Grade Mode: Normal Grading Mode

HST 536 Modern China **3 Credit hours**
This course will provide an overview of Chinese history in the modern era (1600 to the present), including the major political, cultural, social, and intellectual events and trends of this period.
Grade Mode: Normal Grading Mode

HST 537 Intro Public History **3 Credit hours**
Introduction to the basic theories, ideas, and approaches to the application of historical theory or methods to projects presented to non-student publics; local and economic development applications and projects emphasized.
Grade Mode: Normal Grading Mode

HST 538 Stuff and Things in History **3 Credit hours**
This course investigates the rich potential of "things" objects, landscapes, buildings, household utensils, furniture, foods, works of art, clothing, etc. as sources of insight about American history and culture.
Grade Mode: Normal Grading Mode

HST 539 Modern China Through Film **3 Credit hours**
Through a combination of film, lectures, discussions, and writings, the course will show how China took its unique path to modernization.
Grade Mode: Normal Grading Mode

HST 540 West Virginia History **3 Credit hours**
An interdisciplinary study of the state, its people and its institutions within the national context.
Grade Mode: Normal Grading Mode

HST 543 20th Century US Women's Hist **3 Credit hours**
This course explores the lives and experiences of US women in the 20th century, but always with an eye on power.
Grade Mode: Normal Grading Mode

HST 546 Rise of Atlantic World **3 Credit hours**
This course considers the expansion of Western Europe, beginning in the early 1400s, to Africa, Latin America, and other parts of the Atlantic world.
Grade Mode: Normal Grading Mode

HST 547 Film and Empire **3 Credit hours**
This course explores the nature and importance of empire through the reading of key texts and the study of selected films.
Grade Mode: Normal Grading Mode

HST 548 British History in Film **3 Credit hours**
This course explores selected aspects of British history through the study of films and key texts.
Grade Mode: Normal Grading Mode

HST 549 World War I in Film **3 Credit hours**
This course explores the origins, course, and meaning of World War I (1914-1918) through the use of selected films and readings.
Grade Mode: Normal Grading Mode

HST 553 The Kennedy Assassination **3 Credit hours**
This course explores the events surrounding the assassination of President John F. Kennedy.
Grade Mode: Normal Grading Mode

HST 554 History of Ireland **3 Credit hours**
This course covers the history of Ireland from the Middle Ages to the Present.
Grade Mode: Normal Grading Mode

HST 558 Spies in History **3 Credit hours**
This course explores the role played by spies and espionage in modern history.
Grade Mode: Normal Grading Mode

HST 570 The Civil War in Myth & Memory **3 Credit hours**
In a reading seminar, students will examine the historiography as well as origins and change over time of Civil War memory from 1865 to the present.
Grade Mode: Normal Grading Mode

HST 580 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

HST 581 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

HST 582 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

HST 583 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

HST 585 Independent Study **1-4 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

HST 586 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

HST 587 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

HST 588 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

HST 600 Methodology **3 Credit hours**
A research and writing seminar in which students are taught and must exhibit the skills and methodologies of practicing research historians.
Grade Mode: Normal Grading Mode

HST 601 Tudor England 1485-1603 **3 Credit hours**
In this course students will examine in depth several selected themes in Tudor history through reading, class discussions, examinations, and a research paper.
Grade Mode: Normal Grading Mode

HST 602 Stuart England 1603-1714 **3 Credit hours**
An analysis of the Social, Intellectual, Economic, Cultural, and Political History of England in the Stuart Century.
Grade Mode: Normal Grading Mode

HST 605 Social & Econ Prob Am Col **3 Credit hours**
A study of the English colonies America with emphasis on slavery, minorities, and social and economic change.
Grade Mode: Normal Grading Mode

HST 607 Prob Eur Hist 1890-1923 **3 Credit hours**
An analysis of the politics, diplomacy and military strategy of the period of the First World War. Special emphasis is given to the origin of the war, the war itself, the peace settlement and the Russian Revolution and its aftermath.
Grade Mode: Normal Grading Mode

HST 610 Readings in History **2-3 Credit hours**
Readings in topics fitted to the need of the individual student. They may deal with any graduate area. This course is ordinarily restricted to off-campus students and is used sparingly.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

HST 632 Seminar in Reconstruction **3 Credit hours**
A reading and research course in which each student investigates a specific issue related to the reunification of the nation after the Civil War.
Grade Mode: Normal Grading Mode

HST 633 Prob Amer Hist 1877-1917 **3 Credit hours**
A research course in which the student probes a selected problem within the chronological span, 1877-1917.
Grade Mode: Normal Grading Mode

HST 634 Prob Amer Hist Since 1917 **3 Credit hours**
A research course in which a student probes a selected problem within the period since 1917.
Grade Mode: Normal Grading Mode

HST 635 Oral/Local History Seminar **3 Credit hours**
The course examines the field of oral history. Students will apply oral history methodology and other primary source documentation in researching a local topic. ques, the interview, processing of tapes, release form, ethics, and how to write grant proposals.
Grade Mode: Normal Grading Mode

HST 636 Seminar in Women's Hst **3 Credit hours**
A reading and research course in which the student investigates selected topics related to the history of women in America or Europe.
Grade Mode: Normal Grading Mode

HST 640 Archives and Special Coll **3 Credit hours**
The seminar will introduce the student to current practices and procedures used in the creation of archives and manuscript collections through extensive hands-on work, including the physical processing of a manuscript collection. The emphasis will be improvement of the student's historical research skills.
Grade Mode: Normal Grading Mode

HST 650 Special Topics **1-4 Credit hours**
(PR: Permission of Instructor)
Grade Mode: Normal Grading Mode

HST 651 Special Topics **1-4 Credit hours**
(PR: Permission of Instructor)
Grade Mode: Normal Grading Mode

HST 679 Problem Report **1-3 Credit hours**
Grade Mode: Normal Grading Mode

HST 680 Public History Internship **1-6 Credit hours**
Internship in an approved setting in Public History, Archives, Museum, Oral History, or Historical Preservation. Interns will be supervised by on-site staff and History Faculty.
Attributes: Onsite Learning Experience
Grade Mode: Normal Grading Mode

HST 681 Thesis **1-6 Credit hours**
Attributes: No Textbook Required, Thesis
Grade Mode: Normal Grading Mode

Human Resource Management (HRM)

HRM 600 Development of Labor Relations **3 Credit hours**
An historical survey of the organized labor movement in the United States and review of legislation affecting the American worker. Attention is given to the industrial relations system of the United States as it relates to those of Western Europe and other nations. (PR: GSM admission or permission of GSM academic advisor)
Grade Mode: Normal Grading Mode

HRM 605 Human Resource Economics **3 Credit hours**
Economic issues in the employment and compensation of labor. Topics emphasized include labor force composition and growth, structure and functioning of labor markets, unemployment, wage theories, wage levels and structures, the economic influence of unions, income distribution, and human capital models. (PR: ECN 253 or ECN 501 plus GSM admission)
Grade Mode: Normal Grading Mode

HRM 610 Collective Bargaining **3 Credit hours**
A comprehensive survey of collective bargaining with special emphasis given to philosophy, structure and the process of negotiations. attention is also given to important developments and emerging trends in collective bargaining. (PR: HRM 600)
Grade Mode: Normal Grading Mode

HRM 615 Arbitration/Grievance Procedur **3 Credit hours**
A study of grievance procedures and arbitration as formalized in labor-management relations, including an analysis of principles and practices of complaint handling, review of concepts and methodology in such grievance handling, review of the role of arbitration as a dispute resolution mechanism, utilization of factfinding and mediation as alternate mechanisms, the preparation and handling of materials in briefs or oral presentations, and the function or role of the arbitrator, impartial chairman, umpire, or similar neutral. (PR: HRM 600)
Grade Mode: Normal Grading Mode

HRM 625 HRIS and Knowledge Mgmt **3 Credit hours**
The development, use, and impact of Human Resource Information Systems and the management of organizational knowledge including knowledge management systems, procedures, policies, and other issues.
Grade Mode: Normal Grading Mode

HRM 630 Labor Law **3 Credit hours**
A survey and analysis of the labor relations law; examination of the extent to which the law regulates and protects concerted action by employees in the labor market; considerations and analysis of the legal framework within which collective bargaining occurs; and analysis of major aspects of employer-employee law, such as wrongful discharge, discrimination, and safety and health law. (PR: HRM 600)
Grade Mode: Normal Grading Mode

HRM 632 HR for Special Population **3 Credit hours**
An introduction to disabilities focusing on adulthood and employment. The course includes a survey of disability laws, disabilities (physical, sensory, and cognitive), and workplace impacts (accessibility, assistive technology, accommodations).
Grade Mode: Normal Grading Mode

HRM 650 Industrial Psychology **3 Credit hours**
Survey of the applications of psychological principles and of research methodologies to the various human problems in industry, such as personnel selection and appraisal; the organizational and social context of human work; the job and work situation; human errors, accidents, and safety; and the psychological aspects of consumer behavior. (PR: GSM admission)
Grade Mode: Normal Grading Mode

HRM 660 Adm of Compen/Fringe Benefits **3 Credit hours**
The development and administration of wage and salary programs, and an analysis of both private and public health, welfare and pension plans. Topics investaged include motivation theory, factors influencing compensation levels, forms of compensation,including incentive plans and fringe benefits, a critacal examination of financing, administration, and general effectiveness of the plans, special issues of managerial compensation, comparable worth, special and related issues. (PR: MGT 620 and GSM admission)
Grade Mode: Normal Grading Mode

HRM 670 Personnel Select & Trng **3 Credit hours**
A study of the personnel employment and selection processes. Emphasis is placed on the rationale for selection and placement; the procedures and problems in recruitment and selection; and the use of tests, interviews, and other selection devices. Special attention is given to the criterion problem and legislation and/or governmental regulations affecting selection procedures. (PR: GSM admission)
Grade Mode: Normal Grading Mode

HRM 671 Human Resource Internship **3 Credit hours**
Project-oriented experience in Human Resources intended for those students with insufficient experience in the field. (PR: Permission of program director and HRM 600)
Pre-req: HRM 600.
Grade Mode: Normal Grading Mode

HRM 675 Human Resource Devel & Trng **3 Credit hours**
This course teaches students how to develop management training modules and materials. Students also learn and use advanced techniques in training design and group facilitation. (PR: GSM admission)
Grade Mode: Normal Grading Mode

HRM 680 Labor Rel in Public Empl **3 Credit hours**
An examination of the development, practices and extent of collective bargaining between federal, state, and local governments and their employees. Emphasis is on the public issues related to sovereignty, unit determinations, impact on budgetary and financing processes, representation precedures, unfair practices, scope of bargaining, impasse resolution, and the strike. Some attention is devoted to the legal and ethical problems inherent in these issues. (PR: HRM 600)
Grade Mode: Normal Grading Mode

HRM 698 Independent Study in Ind Rel **1-3 Credit hours**
Independent study of a specific nature under the supervision of a qualified faculty member. Hours of credit are determined by the magnitude of the project. (PR: Permission of division head or GSM academic advisor)
Grade Mode: Normal Grading Mode

Humanities (HUMN)

HUMN 530 Technology & the Humanities **3 Credit hours**
This course surveys the effects of electronic media on the humanities and how they are taught in the postmodern society. Content will subsumeboth philosophical/ theoretical issues and technical matters
Grade Mode: Normal Grading Mode

HUMN 560 Staff Development **1-4 Credit hours**
Courses and activities designed to meet specific needs of public school personnel. Credit may be used for certificate renewal and salary upgrading if approved but not in degree programs.
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

HUMN 561 Staff Development **1-4 Credit hours**
Courses and activities designed to meet specific needs of public school personnel. Credit may be used for certificate renewal and salary upgrading if approved but not in degree programs.
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

HUMN 562 Staff Development **1-4 Credit hours**
Courses and activities designed to meet specific needs of public school personnel. Credit may be used for certificate renewal and salary upgrading if approved but not in degree programs.
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

HUMN 563 Staff Development **1-4 Credit hours**
Courses and activities designed to meet specific needs of public school personnel. Credit may be used for certificate renewal and salary upgrading if approved but not in degree programs.
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

HUMN 600 Intro to Study in Humanities **3 Credit hours**
Interdisciplinary core course addresses questions/concepts central to the humanities. Texts from philosophy, history, literature, the arts and in the sciences provide insights into selected historical periods. Open to non-degree students.
Grade Mode: Normal Grading Mode

HUMN 601 Literary Theory & Criticism **3 Credit hours**
Core course introduces modern critical approaches, concepts and methods of research and scholarship in the field of literature. Open to non-degree students.
Grade Mode: Normal Grading Mode

HUMN 602 Historical Studies **3 Credit hours**
Core course acquaints students with problems of historical knowledge, changes in the interpretation of history, nature of historical forces, and methods of historical research. Open to non-degree students.
Grade Mode: Normal Grading Mode

HUMN 603 History & Theory of the Arts **3 Credit hours**
Core course provides chronological survey of the arts, emphasizing the social, political and/or religious motives that underlie artistic production. Emphasis on theories of modern art. Open to non-degree students.
Grade Mode: Normal Grading Mode

HUMN 604 Expository Wrtng for Research **3 Credit hours**
This core writing course develops proficiency in writing for research. Note: a degree student may demonstrate competency through an alternative assessment to have the requirement waived. Open to non-degree students.
Grade Mode: Normal Grading Mode

HUMN 605 Wstrn Trdtns/Contemp Cultures **3 Credit hours**
Using primary materials from different cultural periods, as well as contemporary critical analysis, this core course explores epistemological questions that underlie conflicts between cultures. Open to non-degree students.
Grade Mode: Normal Grading Mode

HUMN 650 Selected Topics **1-9 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

HUMN 660 Independent Study in Human **1-3 Credit hours**
Independent study in a particular area of interest. Open only to students near the end of their plans of study. Permission of program director is required
Grade Mode: Normal Grading Mode

HUMN 680 Independent Research Symposium **3-6 Credit hours**
Prerequisite: 24 credit hours, required courses, and comprehensive examination. A pro-seminar required of all Humanities degree students who are beginning the thesis or final projects. S-U grade.
Attributes: Onsite Learning Experience, Thesis
Grade Mode: Satisfactory/Unsatisfactory

HUMN 681 Independent Research Symposium **3 Credit hours**
Prequesite: Humanities 680. A continuation of the proseminar for students electing the thesis option. The student will produce a thesis suitable for submission to a committee S-U grade.
Attributes: Thesis
Grade Mode: Satisfactory/Unsatisfactory

Instruct Tech-Library Science (ITL)

ITL 501 Libraries & the Learn Process **3 Credit hours**
The role of the school library in the learning process through instruction, collaboration and curriculum support. Study of information literacy, learning styles and models and assessment of lerning outcomes.
Grade Mode: Normal Grading Mode

ITL 502 Library Mat for Adolsc **3 Credit hours**
Course will focus on criteria for evaluating and selecting young adult materials for the purpose of developing and promoting a school library media collection.
Co-req: ITL 504
Grade Mode: Normal Grading Mode

ITL 504 Library Mat for Children **3 Credit hours**
Addresses selection of material(s) for children in the school library; highlights & addresses strategies to fill curriculum gaps through collection development & curation.
Co-req: ITL 502
Grade Mode: Normal Grading Mode

ITL 560 Professional Development **1-4 Credit hours**
Course designed to meet the specific inservice needs of public school teachers, media personnel, and librarians. Credit may be used for certificate renewal and salary upgrading but not for degree programs.
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

ITL 561 Professional Development **1-4 Credit hours**
Sourse designed to meet the specific inservice needs of public school teachers, media personnel, and librarians. Credit may be used for certificate renewal and salary upgrading but not for degree programs.
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

ITL 562 Professional Development **1-4 Credit hours**
Sourse designed to meet the specific inservice needs of public school teachers, media personnel, and librarians. Credit may be used for certificate renewal and salary upgrading but not for degree programs.
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

ITL 563 Professional Development **1-4 Credit hours**
Sourse designed to meet the specific inservice needs of public school teachers, media personnel, and librarians. Credit may by used for certificate renewal and salary upgrading but not for degree programs.
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

ITL 580 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ITL 581 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ITL 582 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ITL 583 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ITL 585 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ITL 586 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ITL 587 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ITL 588 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ITL 591 Workshop **1-4 Credit hours**
Workshop in selected areas of eductional media.
Grade Mode: Normal Grading Mode

ITL 592 Workshop **1-4 Credit hours**
Workshop in selected areas of educational media.
Grade Mode: Normal Grading Mode

ITL 593 Workshop **1-4 Credit hours**
Workshop in selected areas of educational media.
Grade Mode: Normal Grading Mode

ITL 594 Workshop **1-4 Credit hours**
Workshop in selected areas of educational media.
Grade Mode: Normal Grading Mode

ITL 625 Library Organiza & Admin **3 Credit hours**
Principles of administration for elementary and secondary school library media centers, including personnel, facilities, budgets, prgram planning and evaluation, publicity and public relations, audiovisual equipment and materials, computer hardware and software, and methods and matericals for teaching library skills.
Grade Mode: Normal Grading Mode

ITL 627 Cataloging & Reference **3 Credit hours**
This course is a study of cataloging for the school library professional and the basic reference services for school libraries. Emphasis is on MARC records, circulation software, materials evaluation, the reference interview, and research strategies.
Grade Mode: Normal Grading Mode

ITL 631 Technology and the Library **3 Credit hours**
An introduction to the function, management, and the issues of computer and non-computer technology in the library. Students learn to use technology as an educational tool in the classroom.
Grade Mode: Normal Grading Mode

ITL 641 Seminar **3 Credit hours**
Supervised program of readings, reports, and individual and group projects.
Grade Mode: Normal Grading Mode

ITL 650 Library Practice **1-3 Credit hours**
Experience in the application of techniques of library service, adapted as far as possible to the student's needs.
Attributes: Onsite Learning Experience
Grade Mode: Credit/No Credit Grade Only

Interdisciplinary Medicine (IDM)

IDM 700 Medical Humanities **1-18 Credit hours**
Grade Mode: Pass/Fail Grading Mode

IDM 710 Communication in Medicine **1 Credit hour**
Grade Mode: Pass/Fail Grading Mode

IDM 715 Intro to Clinical Skills **1-18 Credit hours**
This course introduces students to the major health problems of specific populations and integrates clinical, preventive and health promotion dimensions of each problem.
Grade Mode: Normal Grading Mode

IDM 716 Intro to Patient Care II **1-18 Credit hours**
Grade Mode: Normal Grading Mode

IDM 717 IPC III **1 Credit hour**
This course is an extnesion of Introduction to Patient Care I & II in which students continue with their assigned clinical mentors and participate in five clinical experiences. Students may opt to continue their clinical experiences through summer externships.
Grade Mode: Pass/Fail Grading Mode

IDM 718 Intro to Patient Care IV **1 Credit hour**
Grade Mode: Pass/Fail Grading Mode

IDM 720 Medical Cell & Molecular Bio **2 Credit hours**
Grade Mode: Normal Grading Mode

IDM 724 Human Genetics **2 Credit hours**
An introduction to the study of heritable diseases, their molecular basis and their detection and treatment, including presentation of clinical cases.
Grade Mode: Normal Grading Mode

IDM 725 Molecular Basis of Medicine **8 Credit hours**
Grade Mode: Normal Grading Mode

IDM 730 Clinical Orientation **1-18 Credit hours**
The course is an introduction to primary care medicine, clinical responsibilities, and clinical orientation prior to beginning required third-year rotations.
Grade Mode: Pass/Fail Grading Mode

IDM 735 MS3 Career Advising **1 Credit hour**
This course is designed to educate students about medical specialties by exposure and opportunity for discussion on many aspects of pursing a career in the different fields of medicine as they progress thru the clinical experience.
Grade Mode: Pass/Fail Grading Mode

IDM 740 Marshall Pri Care Curr (MPCC) **1-24 Credit hours**
Grade Mode: Normal Grading Mode

IDM 744 Senior Symposium **1-18 Credit hours**
Grade Mode: Pass/Fail Grading Mode

IDM 745 Pre-Comm Based Clin Exper **1-24 Credit hours**
Grade Mode: Normal Grading Mode

IDM 750 Comm-Based Clin Internship **1-48 Credit hours**
Grade Mode: Normal Grading Mode

IDM 760 Biomedical Ethics I **1 Credit hour**
Grade Mode: Pass/Fail Grading Mode

IDM 761 Biomedical Ethics II **1 Credit hour**
Grade Mode: Pass/Fail Grading Mode

IDM 762 Biomedical Ethics III **1 Credit hour**
Grade Mode: Pass/Fail Grading Mode

IDM 763 Biomedical Ethics IV **1 Credit hour**
Grade Mode: Pass/Fail Grading Mode

IDM 777 Neuroscience **6 Credit hours**
The structure and function of the Nervous System.
Grade Mode: Normal Grading Mode

IDM 785 Independent Study **1-18 Credit hours**
A course offered to medical students on special curricula or to students with learning disabilities.
Grade Mode: Pass/Fail Grading Mode

IDM 800 Clinical Teachnig Practicum **1-18 Credit hours**
Grade Mode: Pass/Fail Grading Mode

IDM 801 Academic Medicine **1-18 Credit hours**
This elective is designed to nurture the interest and to develop skills for a career in academic medicine.
Grade Mode: Pass/Fail Grading Mode

IDM 802 Medical Career Development **1 Credit hour**
Introduces 4th year medical students to the four career planning components of the AAMC/Careers in Medicine program with emphasis on interviewing and preparing for the residency application process.
Grade Mode: Pass/Fail Grading Mode

IDM 810 Read in Sex & Gen Minorities **2 Credit hours**
This course will provide learners with a comprehensive health education curriculum to improve medical student cultural competency in providing inclusive care for LGBTQ patients.
Grade Mode: Pass/Fail Grading Mode

IDM 816 Clinical Research **4-6 Credit hours**
Students will be provided an opportunity to experience research in a variety of clinical settings where dedicated research electives are not available such as Radiology, Pathology, Ophthalmolgy, and Dermatology. Students will be paired with a faculty or staff member in the department they select to discuss arrangements for the research.
Grade Mode: Pass/Fail Grading Mode

IDM 830 Culinary Medicine **2 Credit hours**
This course will provide medical students with a unique experience to learn fundamental nutrition concepts through online self-study coupled with hands-on experience in the teaching kitchen.
Grade Mode: Pass/Fail Grading Mode

IDM 875 Comp Review Clinical Med **1-18 Credit hours**
USMLE Step II Exam Prep Course
Grade Mode: Normal Grading Mode

IDM 890 Advanced Clinical Pract FCH **1-36 Credit hours**
Grade Mode: Normal Grading Mode

IDM 898 History of Medicine **2 Credit hours**
This couirse is intended for medical students interested in the foundational history of medicine and medical thought up through the current age of modern medical technology. This course will seek to add to the student's appreciation for the trials and tribulations of the medical entrepreneurs and scientists who have brought modern medicine to its current standards.
Grade Mode: Normal Grading Mode

IDM 899 Medical Education Practicum **2 Credit hours**
Grade Mode: Normal Grading Mode

Latin (LAT)

LAT 503 Roman Comedy **3 Credit hours**
(PR: 6 hours of Latin literature numbered 304 or above or equivalent)
Grade Mode: Normal Grading Mode

LAT 504 Roman Elegy: Prop & Tib **3 Credit hours**
Close readings in Latin of selections from the elegies of Propertius and Tibullus.
Grade Mode: Normal Grading Mode

LAT 509 Roman Satire: Hor,Mart,Juv **3 Credit hours**
Close readings in Latin of selections form the satires of Horace and Juvenal and the epigrams of Martial.
Grade Mode: Normal Grading Mode

LAT 510 Tacitus: Annals Agricola **3 Credit hours**
(PR: 6 hours of Latin literature numbered 304 or above or equivalent)
Grade Mode: Normal Grading Mode

LAT 580 Special Topics **1-4 Credit hours**
(PR: 6 hours of literature numbered 304 or above or equivalent and consent of instructor)
Grade Mode: Normal Grading Mode

LAT 581 Special Topics **1-4 Credit hours**
(PR: 6 hours of literature numbered 304 or above or equivalent and consent of instructor)
Grade Mode: Normal Grading Mode

LAT 582 Special Topics **1-4 Credit hours**
(PR: 6 hours of litrature numbered 304 or above or equivalent and consent of instructor)
Grade Mode: Normal Grading Mode

LAT 583 Special Topics **1-4 Credit hours**
(PR: 6 hours of literature numbered 304 or above or equivalent and consent of instructor)
Grade Mode: Normal Grading Mode

LAT 585 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

LAT 586 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

LAT 587 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

LAT 588 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

LAT 625 Hist & Dev Latin Language **3 Credit hours**
This course examines the linguistic, geographic, cultural and material concerns that influenced the development of the Latin Language.
Grade Mode: Normal Grading Mode

LAT 640 Advanced Prose Comp **3 Credit hours**
A close study of advanced Latin grammar and style through composition in Latin.
Grade Mode: Normal Grading Mode

LAT 660 Special Author Lat Lit **3 Credit hours**
A detailed study in Latin of a single author. Special attention will be given to style, genre, literary and cultural contexts, and the study of secondary sources on the author.
Grade Mode: Normal Grading Mode

LAT 661 Special Author in Lat Lit **3 Credit hours**
A detailed study in Latin of a single author. Special attention will be given to style, genre, literary and cultural contexts, and study of secondary sources on the author.
Grade Mode: Normal Grading Mode

LAT 662 Special Author in Lat Lit **3 Credit hours**
A detailed study in Latin of a single author. Special attention will be given to style, genre, literary and cultural contexts, and study of secondary sources on the author.
Grade Mode: Normal Grading Mode

LAT 663 Special Author in Lat Lit **3 Credit hours**
A detailed study in Latin of a single author. Special attention will be given to style, genre, literary and cultural contexts, and study of secondary sources on the author.
Grade Mode: Normal Grading Mode

LAT 664 Special Author Lat Lit **3 Credit hours**
A detailed study in Latin of a single author. Special attention will be given to style, genre, literary and cultural contexts, and study of secondary sources on the author.
Grade Mode: Normal Grading Mode

LAT 665 Special Author Lat Lit **3 Credit hours**
A detailed study in Latin of a single author. Special attention will be given to style, genre, literary and cultural contexts, and study of secondary sources on the author.
Grade Mode: Normal Grading Mode

LAT 681 Thesis **1-6 Credit hours**
Attributes: Thesis
Grade Mode: Normal Grading Mode

LAT 682 Special Topics Lat Lit **1-4 Credit hours**
Grade Mode: Normal Grading Mode

LAT 683 Special Topics in Latin Lit **1-4 Credit hours**
Grade Mode: Normal Grading Mode

LAT 685 Independent Study in Lat Lit **1-4 Credit hours**
Grade Mode: Normal Grading Mode

LAT 686 Independent Study in Lat Lit **1-4 Credit hours**
Grade Mode: Normal Grading Mode

LAT 687 Independent Study in Lat Lit **1-4 Credit hours**
Grade Mode: Normal Grading Mode

LAT 688 Independent Study in Lat Lit **1-4 Credit hours**
Grade Mode: Normal Grading Mode

Leadership Studies (LS)

LS 510 Administrative Leadership **3 Credit hours**
Administrative Leadership prepares leaders for school and district positions by providing the knowledge and skills to support every student's learning and development through fiscal management, resource allocation, facility utilization and maintenance, and using information systems.
Attributes: Onsite Learning Experience
Grade Mode: Normal Grading Mode

LS 515 Curric and Instr Leadership **3 Credit hours**
The development and/or upgrading of supervisory practices in the areas of instructional leadership, instructional program development, instructional strategies, implementation and evaluation, and human relations.
Grade Mode: Normal Grading Mode

LS 520 Admin Elem Mdle & Sec Schools **3 Credit hours**
An investigation of the effects of the unique physical, social, mental, and moral characteristics of pre, early, and adolescent children on educational processes, organizations, and personnel.
Grade Mode: Normal Grading Mode

LS 530 Human Rel Skills for Leaders **3 Credit hours**
This course assesses and develops students' knowledge and skills in interpersonal relations and ethical practices. It provides structured experiences in group processes, verbal and non-verbal communications leadership styles, and team building.
Grade Mode: Normal Grading Mode

LS 550 Schools as Systems **3 Credit hours**
Assesses and develops student's knowledge and skills in change strategies, school cultures, systems theory, and understanding of the school in relation to other systems, agencies, and organizations.
Grade Mode: Normal Grading Mode

LS 558 School Law and the Teacher **3 Credit hours**
Grade Mode: Normal Grading Mode

LS 561 Professional Development **1-4 Credit hours**
These courses and activities are designed to meet the specific in-service needs of public school administrators. Credit in these courses may be used for certificate renewal and salary upgrading but not in degree programs.
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

LS 562 Professional Development **1-4 Credit hours**
These courses and activities are designed to meet the specific in-service needs of public school administrators. Credit in these courses may be used for certificate renewal and salary upgrading but not in degree programs.
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

LS 563 Staff Development **1-4 Credit hours**
These courses and activities are designed to meet the specific in-service needs of public school administrators. Credit in these courses may be used for certificate renewal and salary upgrading but not in degree programs.
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

LS 580 Special Topics in Leadership **1-9 Credit hours**
To provide the master's level student an opportunity to examine selected issues in leadership and to apply their findings to the field of study.
Grade Mode: Normal Grading Mode

LS 585 Independent Study **1-4 Credit hours**
Approval of Program Director and Permission of chair. Student must have a GPA of 3.0 to take class.
Grade Mode: Normal Grading Mode

LS 586 Independent Study **1-4 Credit hours**
Approval of Program Director and Permission of chair. Student must have a GPA of 3.0 to take class.
Grade Mode: Normal Grading Mode

LS 587 Independent Study **1-4 Credit hours**
Approval of Program Director and Permission of chair. Student must have a GPA of 3.0 to take class.
Grade Mode: Normal Grading Mode

LS 588 Independent Study **1-4 Credit hours**
Approval of Program Director and Permission of chair. Student must have a GPA of 3.0 to take class.
Grade Mode: Normal Grading Mode

LS 600 School Personnel Administra **3 Credit hours**
This course offers an examination of personnel functions including recruitment, selection, orientation, evaluation, and retention with particular emphasis on staff development.
Grade Mode: Normal Grading Mode

LS 604 CTE Leadership Studies I **3 Credit hours**
Leadership preparation for career and technical education programs located at technical centers and/or high schools. Students will study career and technical education policies, funding sources, and accountability within Simulated Workplace.
Grade Mode: Normal Grading Mode

LS 606 Plan Res & Eval for Sch Lead **3 Credit hours**
This course is designed to avail potential school administrators with an understanding of planning strategies, academic research, action research, and program evaluation methods, with the intent of their being able to write a cogent, data-based school improvement plan.
Grade Mode: Normal Grading Mode

LS 608 CTE Leadership Studies II **3 Credit hours**
Leadership preparation for career and technical education programs located at technical centers and/or high schools. Students will study career/technical education initiatives, importance of advisory committees, and economics of Simulated Workplaces.
Pre-req: LS 604 with a minimum grade of D.
Grade Mode: Normal Grading Mode

LS 610 Leadership for Sch Improve **3 Credit hours**
Leadership preparation for developing and implementing a shared vision and strategic plans focused on teaching and learning, implementing change, applying leadership theory and acting with understanding of society's influences.
Attributes: Onsite Learning Experience
Grade Mode: Normal Grading Mode

LS 612 Educ Tech for Administrators **3 Credit hours**
This course addresses the role of the principal in the development and implementation of school curriculum. This includes developmentally appropriate curriculum design, special education curriculum and modifications, the integration of technology, and authentic assessment.
Grade Mode: Normal Grading Mode

LS 615 Leadership in Public Sector **3 Credit hours**
This course will enable public sector leaders to better understand the perspectives they bring to the setting, define and evaluate personal and organizational goals, and develop strategies to achieve shared goals.
Grade Mode: Normal Grading Mode

LS 616 Higher Ed Governance **3 Credit hours**
This course is designed to develop an understanding of the structure of governance of multi-campus public higher education systems.
Grade Mode: Normal Grading Mode

LS 617 Intro Stu Pers Adm/Higher Ed **3 Credit hours**
This course surveys the purpose and functions of student personnel administration in higher educational institutions and the administrative procedures developed to accomplish these purposes.
Grade Mode: Normal Grading Mode

LS 618 History of Higher Education **3 Credit hours**
This course will present a historical overview of the factors that influence the development of higher education in America.
Grade Mode: Normal Grading Mode

LS 621 Pub Policy Analysis Higher Ed **3 Credit hours**
This course will introduce students to the process of developing federal and state public policy for higher education and examine legislation related to governance, finance, and oversight.
Grade Mode: Normal Grading Mode

LS 625 Human Resources Management **3 Credit hours**
This course develops knowledge of the major functions and tasks necessary for the development of human resources.
Grade Mode: Normal Grading Mode

LS 626 Fundraising Management **3 Credit hours**
This course will provide students with an overview of the fundamentals of fundraising including such vehicles as major campaigns, donor research, management practices, and ethical issues.
Grade Mode: Normal Grading Mode

LS 628 Nonprofit & Public Sector Orgs **3 Credit hours**
Nonprofit & public sector organizations constitute a significant part of every community and this course is designed to examine the major leadership issues they encounter.
Grade Mode: Normal Grading Mode

LS 630 The School and the Community **3 Credit hours**
This course provides students the opportunity to study the concept of community, to examine relationship patterns, to explore the possibilities for combining the resources of the school and community in the interest of school improvement, and to evaluate communication strategies designed to enhance the school-community relationship.
Attributes: Onsite Learning Experience
Grade Mode: Normal Grading Mode

LS 632 Human Rel in Public Sec **3 Credit hours**
This course is designed to assist leaders in the public sector to establish and maintain positive relationships with the organization's staff and volunteers, as well as with its constituents.
Grade Mode: Normal Grading Mode

LS 633 Lead International Nonprofit **3 Credit hours**
This course will examine the structure, purpose and history of international nonprofit organizations. Also, included will be a study of public policy and the practice of philanthropy in countries other than the USA.
Grade Mode: Normal Grading Mode

LS 635 Organizational Theory **3 Credit hours**
This course analyzes leadership theories and their application to leadership and management in nonprofit and public sector organizations.
Grade Mode: Normal Grading Mode

LS 640 Legal Issues NPO & Public **3 Credit hours**
This course provides students with an overview of federal and state laws governing nonprofit and public sector organizations, current legal trends and legal issues affecting CEO's, staff, governing boards.
Grade Mode: Normal Grading Mode

LS 645 Comm Collaborative Plan Mgmt **3 Credit hours**
Students will be provided with the opportunity to anaylze the nature of collaboration among state, local, federal agencies, business, and community organizations to address an array of complex issues facing non-profit and public agencies. The importance of networking and social entrepreneurship are among other concepts that will be explored.
Grade Mode: Normal Grading Mode

LS 647 Adult & Continuing Educa **3 Credit hours**
This course develops an understanding of the principles, concepts, and processes involved in planning learning experiences for adults within the framework of higher education.
Grade Mode: Normal Grading Mode

LS 650 Internship-School Management 1 **3 Credit hours**
Grade Mode: Normal Grading Mode

LS 655 Externship **1-9 Credit hours**
This is a field-based course designed for practicing professionals.
Grade Mode: Normal Grading Mode

LS 660 Capstone: School Management **3 Credit hours**
Attributes: Onsite Learning Experience
Grade Mode: Normal Grading Mode

LS 661 Internship-Instr Supervision 2 **3 Credit hours**
Grade Mode: Normal Grading Mode

LS 675 Legal and Policy Issues **3 Credit hours**
This course examines the principal's role and responsibility related to law and administrative policy.
Attributes: Onsite Learning Experience
Grade Mode: Normal Grading Mode

LS 685 Capstone: Portfolio Assessment **3 Credit hours**
Training and assessment experiences for students seeking initial certification as a school principal.
Attributes: Onsite Learning Experience
Grade Mode: Normal Grading Mode

LS 690 Leadership Capstone Course **3 Credit hours**
This course represents a culminating experience and an opportunity to demonstrate a broad mastery of learning across the respective program curriculum.
Grade Mode: Normal Grading Mode

LS 691 The Attendance Director **3 Credit hours**
This course develops the administrative skills required for managing policies, programs, and activities related to the position of public school social worker or attendance director.
Attributes: Onsite Learning Experience
Grade Mode: Normal Grading Mode

LS 692 Capstone: School Social Serv **3 Credit hours**
This course provides pre-service training and assesment for students seeking licensure as a public school social worker/ attendance director.
Pre-req: LS 691 with a minimum grade of C.
Attributes: Onsite Learning Experience
Grade Mode: Normal Grading Mode

LS 693 Sch Law for Support Personnel **3 Credit hours**
This course provides the student with a working knowledge of school law and other legal matters as it pertains to the attendance director. The focus of this course is on those laws dealing with mandatory attendance and juvenile matters. (PR: Admission into the Social Services/Attendance Program)
Grade Mode: Normal Grading Mode

LS 700 Superintendency **3 Credit hours**
This course examines the roles, relationships, behaviors and competencies which characterize school superintendents ans their staffs.
Grade Mode: Normal Grading Mode

LS 701 Internship-Begng Supertndncy **3 Credit hours**
Grade Mode: Normal Grading Mode

LS 704 LDSH SP POP **3 Credit hours**
This course identifies and explains the laws and policies that service students with special needs. School leaders will learn to apply these laws to ensure they meet students' needs while making the best decisions for their school.
Grade Mode: Normal Grading Mode

LS 705 Administration Theory **3 Credit hours**
This course analyzes administrative theories and their application to organizational leadership and management.
Grade Mode: Normal Grading Mode

LS 707 Ethical Theory **3 Credit hours**
The course focuses on the primary ethical theories and the ethical resoning processes which are representative of each, providing students opportunities to analyze decisions against existing ethical models and reinforce or reform those decisions in light of moral principles.
Grade Mode: Normal Grading Mode

LS 708 Comparative Study Comm Coll **3 Credit hours**
An examination of community colleges in the U.S. and abroad including Canada, Europe, Asia, Africa, and South America. Areas for comparison include governance, finances, curriculum, faculty and students.
Grade Mode: Normal Grading Mode

LS 709 Leadership in a Global Crisis **3 Credit hours**
This course is designed to prepare students to successfully lead an organizations through a crisis such as a natural disaster, technological breach, terrorist attack or infrastructure failure. Integral to this is crisis preparedness planning and having systems in place that will enable an organization to recover from the aftermath of a crisis.
Grade Mode: Normal Grading Mode

LS 710 Principles of Leadership **3 Credit hours**
This course is a study of the characteristics and behaviors of leaders. Emphasis is on the development of understandings and abilities which will work in different situations.
Attributes: Online Course
Grade Mode: Normal Grading Mode

LS 711 School Leadership Practices 1 **3 Credit hours**
Grade Mode: Normal Grading Mode

LS 712 School Leadership Practices 2 **3 Credit hours**
Grade Mode: Normal Grading Mode

LS 714 Higher Ed Admin **3 Credit hours**
This course is a survey of higher education with attention to administrative functions at the campus and state levels.
Grade Mode: Normal Grading Mode

LS 715 Computer & School Management **3 Credit hours**
Grade Mode: Normal Grading Mode

LS 716 Higher Ed Governance **3 Credit hours**
This class will review different models for governing public higher education at a system level and will examine the changing nature of higher education.
Grade Mode: Normal Grading Mode

LS 717 Intro Stu Pers Adm/Higher Ed **3 Credit hours**
This course surveys the purpose and functions of student personnel administration in higher educational institutions and the administrative procedures developed to accomplish these purposes.
Grade Mode: Normal Grading Mode

LS 718 Hist of Higher Ed **3 Credit hours**
This course is designed to provide the student with an understanding of the historical development of American higher education. It will examine past and future issues that have or may affect higher education.
Grade Mode: Normal Grading Mode

LS 720 Financial Models in Education **3 Credit hours**
This course examines concepts in the financing and economics of education in multiple education environments.
Grade Mode: Normal Grading Mode

LS 724 Organizational Analysis **3 Credit hours**
This course is an interdisciplinary approach to the study of organizational structure, relationships, and functions focusing on problems and alternatives for solving them.
Grade Mode: Normal Grading Mode

LS 726 Institutional Adv in High Ed **3 Credit hours**
Students will understand the broad area of institutional advancement, including major campaigns, donor research, donor recognition programs, restricted gifts, and so forth.
Grade Mode: Normal Grading Mode

LS 730 Educational Facility Planning **3 Credit hours**
This course teaches the systematic collection and utilization of data in planning for educational facilities. (PR: Principal or supervisor certificate or consent)
Grade Mode: Normal Grading Mode

LS 735 Policy Studies **3 Credit hours**
This course focuses on current organizational policy issues and provides conceptual and analytical tools for their critical examination.
Grade Mode: Normal Grading Mode

LS 747 Admin of Comm Colleges **3 Credit hours**
An analysis of community college governance, structure, functions, and relationship with its respective community and local/state government.
Grade Mode: Normal Grading Mode

LS 755 Internship-Admin of Higher Ed **3 Credit hours**
This course provides a field experience in higher education administration. (PR: Consent)
Grade Mode: Normal Grading Mode

LS 756 Current Issues in Leadership **3 Credit hours**
The course focuses on current and emerging problems of leadership among varied organizational types.
Grade Mode: Normal Grading Mode

LS 760 Politics of Education **3 Credit hours**
This course explores the social process of governance in the public schools including higher education. The milieu of federal state and local inputs will be explored.
Grade Mode: Normal Grading Mode

LS 762 Higher Ed Politics **3 Credit hours**
This course is designed to make students familiar with the basic concepts and tools of politics. The course will apply these political concepts to higher education.
Grade Mode: Normal Grading Mode

LS 764 Adv Research I **3 Credit hours**
This class for doctoral candidates will develop a foundation in research methods, research ethics, and research skills.
Grade Mode: Credit/No Credit Grade Only

LS 765 Adv Res II in Lead Studies **3 Credit hours**
This is an advanced research course directed toward the preparation of a thesis or dissertation. (PR: Consent)
Pre-req: LS 764 with a minimum grade of C.
Attributes: Thesis
Grade Mode: Credit/No Credit Grade Only

LS 770 Practicum **3 Credit hours**
This is a highly individualized cooperative educational administration experience between the college and another public agency. (PR: Consent)
Grade Mode: Normal Grading Mode

LS 771 Capstone: District Lvl Leader **3 Credit hours**
This course provides candidates the opportunity to study and prepare for District Level Leadership.
Attributes: Onsite Learning Experience
Grade Mode: Normal Grading Mode

LS 772 School District Leadership 2 **3 Credit hours**
This is an individualized cooperative field experience in district level school administration. (PR: Consent)
Grade Mode: Normal Grading Mode

LS 775 Seminar **3 Credit hours**
This course is a concentrated analysis of current problems in educational administration. (PR: Consent)
Grade Mode: Normal Grading Mode

LS 780 Special Topics **1-6 Credit hours**
This course requires study, reading and research is an approved area of education and supervision. (PR: Consent)
Grade Mode: Normal Grading Mode

LS 785 Externship **1-9 Credit hours**
This is a field based program designed for practicing administrators. (PR: Consent)
Grade Mode: Normal Grading Mode

LS 787 Cont First Amendment Issues **3 Credit hours**
This course will examine contemporary first amendment issues as they relate to education in public education and higher education.
Grade Mode: Normal Grading Mode

LS 790 Dissertation Research **1-9 Credit hours**
Grade Mode: Normal Grading Mode

LS 792 MU Research Colloquium **3 Credit hours**
Grade Mode: Normal Grading Mode

LS 797 Dissertation Research **1-9 Credit hours**
Dissertation research is the purpose of this course. (PR: Consent)
Attributes: Thesis
Grade Mode: Credit/No Credit Grade Only

Legal Environment (LE)

LE 691 Gov Bus Relationships **3 Credit hours**
Preparing business executives for dealing with problems of the firm in its relationships with government. Applies case analysis to the board categories of antitrust, trade regulation, and agency regulation.
Grade Mode: Normal Grading Mode

Library Science (LSC)

LSC 500 Library Foundations **3 Credit hours**
Includes the basics of library careers including topics on library types, information organization, collection development, reference services, library management, and library history.
Grade Mode: Normal Grading Mode

LSC 505 Library Organization **3 Credit hours**
Introduction to practices, tools, and standards for information environments such as information structures, retrieval systems, cataloging, the MARC record, metadata standards, description, subject analysis, vocabularies, and systems for categorization.
Grade Mode: Normal Grading Mode

LSC 510 Library Research Skills **3 Credit hours**
This course covers the techniques to design and implement effective information literacy programs, use discovery tools, perform research, reference interviews, resource evaluation, and deploy innovative teaching techniques.
Grade Mode: Normal Grading Mode

LSC 515 Library Management **3 Credit hours**
Prepares students to lead and evaluate library services; includes topics on organizational structure, basics of personnel management, strategic planning, policy development, external reporting, and metrics for closing the assessment loop.
Grade Mode: Normal Grading Mode

LSC 520 Ethical Librarianship **3 Credit hours**
This course explores ethical challenges for libraries in the digital age, focusing on DEI, community advocacy, legal frameworks, combating misinformation, and AI implications in library settings.
Grade Mode: Normal Grading Mode

LSC 580 Special Topics **3 Credit hours**
This special topics course will cover a specific area of interest in Library and Information Science for the MSLS. Topics will vary based on trends, faculty expertise, and student interest.
Grade Mode: Normal Grading Mode

LSC 581 Special Topics **3 Credit hours**
This special topics course will cover a specific area of interest in Library and Information Science for the MSLS. Topics will vary based on trends, faculty expertise, and student interest.
Grade Mode: Normal Grading Mode

LSC 582 Special Topics **3 Credit hours**
This special topics course will cover a specific area of interest in Library and Information Science for the MSLS. Topics will vary based on trends, faculty expertise, and student interest.
Grade Mode: Normal Grading Mode

LSC 583 Special Topics **3 Credit hours**
This special topics course will cover a specific area of interest in Library and Information Science for the MSLS. Topics will vary based on trends, faculty expertise, and student interest.
Grade Mode: Normal Grading Mode

LSC 585 Independent Study **3 Credit hours**
This course is set as an independent study in Library and Information Science. The independent study will vary based on faculty expertise and student needs.
Grade Mode: Normal Grading Mode

LSC 586 Independent Study **3 Credit hours**
This course is set as an independent study in Library and Information Science. The independent study will vary based on faculty expertise and student needs.
Grade Mode: Normal Grading Mode

LSC 587 Independent Study **3 Credit hours**
This course is set as an independent study in Library and Information Science. The independent study will vary based on faculty expertise and student needs.
Grade Mode: Normal Grading Mode

LSC 588 Independent Study **3 Credit hours**
This course is set as an independent study in Library and Information Science. The independent study will vary based on faculty expertise and student needs.
Grade Mode: Normal Grading Mode

LSC 600 Library Access Services **3 Credit hours**
This course explores strategies and technologies for seamless user access and resource sharing in libraries, enhancing web-based, print, and in-person experiences to improve patron satisfaction and engagement.
Grade Mode: Normal Grading Mode

LSC 605 Collection Development **3 Credit hours**
This course develops proficiency in building, managing, and assessing library collections, covering principles, strategies, budget considerations, and demographic alignment to meet diverse user needs.
Grade Mode: Normal Grading Mode

LSC 610 Library Resource Management **3 Credit hours**
This course introduces practical skills in the latest library technologies, enhancing services for efficient access, organization, and preservation of information resources.
Grade Mode: Normal Grading Mode

LSC 615 Print/Digital Preservation **3 Credit hours**
This course provides an in-depth exploration for preserving cultural heritage and information resources in evolving library landscapes, covering both print and digital formats.
Grade Mode: Normal Grading Mode

LSC 620 Library Marketing Skills **3 Credit hours**
Introduces marketing techniques and programming for various library types and services. Topics include, but are not limited to, messaging, grant writing, and fundraising to enhance library facilities, services, and collections.
Grade Mode: Normal Grading Mode

LSC 625 Library Internship **3-9 Credit hours**
An optional hands-on experience applying theoretical knowledge to practical scenarios while enhancing skills under professional guidance. Current library workers must intern in a different department or library from their area.
Grade Mode: Normal Grading Mode

LSC 650 Special Topics **3 Credit hours**
This special topics course will cover a specific area of interest in Library and Information Science for the MSLS. Topics will vary based on trends, faculty expertise, and student interest.
Grade Mode: Normal Grading Mode

LSC 651 Special Topics **3 Credit hours**
This special topics course will cover a specific area of interest in Library and Information Science for the MSLS. Topics will vary based on trends, faculty expertise, and student interest.
Grade Mode: Normal Grading Mode

LSC 652 Special Topics **3 Credit hours**
This special topics course will cover a specific area of interest in Library and Information Science for the MSLS. Topics will vary based on trends, faculty expertise, and student interest.
Grade Mode: Normal Grading Mode

LSC 653 Special Topics **3 Credit hours**
This special topics course will cover a specific area of interest in Library and Information Science for the MSLS. Topics will vary based on trends, faculty expertise, and student interest.
Grade Mode: Normal Grading Mode

LSC 685 Independent Study **3 Credit hours**
This course is set as an independent study in Library and Information Science. The independent study will vary based on faculty expertise and student needs.
Grade Mode: Normal Grading Mode

LSC 686 Independent Study **3 Credit hours**
This course is set as an independent study in Library and Information Science. The independent study will vary based on faculty expertise and student needs.
Grade Mode: Normal Grading Mode

LSC 687 Independent Study **3 Credit hours**
This course is set as an independent study in Library and Information Science. The independent study will vary based on faculty expertise and student needs.
Grade Mode: Normal Grading Mode

LSC 688 Independent Study **3 Credit hours**
This course is set as an independent study in Library and Information Science. The independent study will vary based on faculty expertise and student needs.
Grade Mode: Normal Grading Mode

Literary Studies-Humanities (LITS)

LITS 510 Comparative Approaches to Lit **3 Credit hours**
Exploration of literature via literary movements, themes, genres, or relationship to other disciplines. Specific works will be read and discussed as examples of the announced approach.
Grade Mode: Normal Grading Mode

LITS 520 Creative Wrtng/Pract Criticism **3 Credit hours**
Exploration of the possibilities for communication and expression in contemporary writing with emphasis on comprehension of structure, technique and self-criticism of the writing experience.
Grade Mode: Normal Grading Mode

LITS 522 Selected Topics in Writing **3 Credit hours**
The study of selected topics in writing (e.g., the expository essay, screen-writing, techniques of editing, etc.)
Grade Mode: Normal Grading Mode

LITS 540 Studies in Mythology/Folklore **1-6 Credit hours**
Selected topics in mythology and folklore (e.g., folk drama, folk tale, folk art). May be repeated for a maximum of 6 hours.
Grade Mode: Normal Grading Mode

LITS 580 Literature for Teachers **3 Credit hours**
Study and appreciation of selected works with special reference to the high school curriculum.
Grade Mode: Normal Grading Mode

LITS 600 Sel Topics in Literary Studies **1-6 Credit hours**
Grade Mode: Normal Grading Mode

LITS 615 Modern Southern Literature **3 Credit hours**
Course surveys important figures in Southern literature since the Southern Literary Renaissance of the 1920's and the Agrarian and Fugitive Movements.
Grade Mode: Normal Grading Mode

LITS 625 Shakespeare:Text,Stage & Film **3 Credit hours**
Focusing on selected Shakespearean plays, this course considers recent critical interpretations and explores how these have influenced stage and film productions. Contemporary adaptations of the plays will also be considered.
Grade Mode: Normal Grading Mode

LITS 636 Lit/Soc in Late 18 C England **3 Credit hours**
This course examines biographies, social, political and scientific writing, literary texts and the arts from 17501800 to understand English culture and the eighteenthcentury world.
Grade Mode: Normal Grading Mode

LITS 660 Modern Irish Novel **3 Credit hours**
This course examines the subject matter, techniques, and critical background of the maodern Anglo-Irish novel. Students will study representative examples by major novelists from the Republic and Northern Ireland.
Grade Mode: Normal Grading Mode

LITS 662 20th C Irish Drama **3 Credit hours**
From the founding of the Abbey Theatre to the present, this course traces the development of Irish drama as art form and culture artifact.
Grade Mode: Normal Grading Mode

LITS 670 Contemporary World Fiction **3 Credit hours**
Contemporary works of shorter fiction from around the world offer opportunities to apply cultural critiques and comparative literary perspectives, while considering the different national and cultural traditions presented.
Grade Mode: Normal Grading Mode

Management (MGT)

MGT 500 Analytic Methods & Tech **3 Credit hours**
Provides competency in some of the basic quantitative skills necessary for analytical work in business administration. Required of all candidates who have had little or no undergraduate background in mathematics.
Grade Mode: Normal Grading Mode

MGT 578 Import Export Management **3 Credit hours**
Students will learn the general and specific information relevant to conducting import/export business to/from the United States to different parts of the world.
Grade Mode: Normal Grading Mode

MGT 580 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

MGT 601 Quant Methods-Business **3 Credit hours**
The use of quantitative methods for managerial decision making. A review of basic calculus and statistics as required in business. Other topics indlude decision analysis, linear programming and queuing. (PR: Full MBA Admission or Permission of MBA Director)
Grade Mode: Normal Grading Mode

MGT 610 OPERATIONS MANAGEMENT **3 Credit hours**
Grade Mode: Normal Grading Mode

MGT 611 Military Management I **3-9 Credit hours**
MGT 611 concerns the theory and practice of a military officer's management plans to attain outcomes consistent with the organization's mission and goals including strategy formulation, implementation and control.
Grade Mode: Credit/No Credit Grade Only

MGT 612 Military Management II **3-9 Credit hours**
MGT 612 concerns the theory and practice of a military officer's strategic human resource management plans to attain outcomes consistent with the organization's mission and goals including strategy formulation, implementation and control.
Grade Mode: Credit/No Credit Grade Only

MGT 613 Military Management III **3-9 Credit hours**
MGT 613 concerns the theory and practice of a military officer's quantitative and analytical management plans to attain outcomes consistent with the organization's mission and goals including strategy formulation, implementation and control.
Grade Mode: Credit/No Credit Grade Only

MGT 615 Mgmt of Innovation & Tech **3 Credit hours**
Provides a comprehensive introduction to technology and innovation management. Considers issues relating to international markets, innovation, and rapidly changing technology. Also covers effective organizational and managerial approaches to technology.
Grade Mode: Normal Grading Mode

MGT 620 Human Resource Management **3 Credit hours**
The study of policies, methods, and techniques utilized in personnel management and human relations. Specific attention is given to problems of recruitment, selection. compensation, motivation, communications, training , service and benefit programs, performance evaluation, safety, discipline, business ethics, and community relations. (PR: MGT 320 or MKT 511; and GSM admission or permission of GSM academic advisor)
Pre-req: MKT 511 with a minimum grade of C.
Grade Mode: Normal Grading Mode

MGT 630 Mgt & Supervisory Skills Devel **3 Credit hours**
An analysis and application of personal and organizational skills associated with the effective management of both public and private sector organizations. Skills to be developed or refined include time management,decision making, delegation, stress management, oral and written communication, team-building and others. Applied exercises, case studies, simulation, role play, films, and other learning methods are emphasized. (PR: MGT 672)
Pre-req: MGT 672 with a minimum grade of C or MGT 503G with a minimum grade of C.
Grade Mode: Normal Grading Mode

MGT 650 Special Topics **1-4 Credit hours**
PR: Permission of the division head and full M.B.A. admission or permission of GSM academic advisor.
Pre-req: MGT 503 with a minimum grade of C or MGT 503G with a minimum grade of C.
Grade Mode: Normal Grading Mode

MGT 651 Special Topics **1-3 Credit hours**
PR: Permission of the division head and full M.B.A. admission or permission of GSM academic advisor.
Grade Mode: Normal Grading Mode

MGT 655 Management of Small Business **3 Credit hours**
Pre-req: MGT 501 with a minimum grade of C or MGT 501G with a minimum grade of C.
Grade Mode: Normal Grading Mode

MGT 660 Independent Study **1-4 Credit hours**
Independent study of a specific nature under the
Grade Mode: Normal Grading Mode

MGT 665 MANAGEMENT INFORMATION SYSTEMS **3 Credit hours**
Grade Mode: Normal Grading Mode

MGT 670 Management Consulting Skills **3 Credit hours**
Pre-req: MGT 672 with a minimum grade of C or MGT 503G with a minimum grade of C.
Grade Mode: Normal Grading Mode

MGT 671 Business Admin Internship **3 Credit hours**
Project-oriented experience in business operations and organizations intended for those students with insufficient experience in the field. (PR: Full Admission and permission of program director)
Grade Mode: Normal Grading Mode

MGT 672 Organizational Behavior **3 Credit hours**
Basic ideas and concepts for the effective management of an organization. Major topics include motivation, communication and decision-making processes, group dynamics, leadership study, conflict management, work and organizational design, and organization development. Emphasis on the organizational behavior and theory.
Grade Mode: Normal Grading Mode

MGT 673 Prob Personnel Management **3 Credit hours**
Principles and procedures of the personnel system in the firm; selected areas of recruitment and selection; training and development; performance appraisal and evaluation; general communications system; role of government in manpower administration.
Pre-req: MGT 672 with a minimum grade of C or MGT 503G with a minimum grade of C.
Grade Mode: Normal Grading Mode

MGT 674 Prod/Operation Management **3 Credit hours**
The study of operations management methods used in production, manufacturing, services and other business operations. Includes project management, capacity planning and transportation problems.
Pre-req: MGT 601 with a minimum grade of C.
Grade Mode: Normal Grading Mode

MGT 675 Prob Labor-Mgt Relations **3 Credit hours**
Comprehensive coverage of the development of the field of industrial relations. The impact of organized labor and federal social legislation of management decision. Alternative directions for future developments are studied.
Pre-req: MGT 672 with a minimum grade of C or MGT 503G with a minimum grade of C.
Grade Mode: Normal Grading Mode

MGT 676 Organization Theory Desgn **3 Credit hours**
Analysis of organizational systems and subsystems incorporating, traditional, behavioral, and situational approaches to organizational and work unit design. Emphasizes environmental interface and interdependencies as function of internal systems phenomena.
Pre-req: MGT 672 with a minimum grade of C or MGT 503G with a minimum grade of C.
Grade Mode: Normal Grading Mode

MGT 677 Supply Chain Management **3 Credit hours**
This course is a study of efforts to optimize actions of manufacturers, suppliers, distributors, retailers, and other selected modes in their endeavors to serve the ultimate customers.
Grade Mode: Normal Grading Mode

MGT 680 Entrepreneurship **3 Credit hours**
The management of small business emphasizes how they are started and financed, how they produce and market their products and services and how they manage their human resources.
Grade Mode: Normal Grading Mode

MGT 681 Thesis **1-6 Credit hours**
Attributes: Thesis
Grade Mode: Normal Grading Mode

MGT 692 Ethics/Global Aspects Bus **3 Credit hours**
An examination of the Manager's social, ethical, and environmental responsibilities, not only to their domestic constituents, but also in the increasingly competitive international arena.
Pre-req: MGT 672 with a minimum grade of C.
Grade Mode: Normal Grading Mode

MGT 696 Admin Policy & Strategy **3 Credit hours**
Capstone graduate business course for Master of Science students (HRM & HCA). Emphasis on policy and strategy issues in a service and/or public setting instead of within a "for-profit" environment.
Grade Mode: Normal Grading Mode

MGT 698 Independent Study in Mgmt **1-3 Credit hours**
Grade Mode: Normal Grading Mode

MGT 699 Strategic Management **3 Credit hours**
The study and application of top management's plan to attain outcomes consistent with the organization's mission and goals, including; strategy formulation, implementation and control. (PR: Permission of GSM academic advisor)
Grade Mode: Normal Grading Mode

MGT 749 RESEARCH PAPER **3 Credit hours**
Grade Mode: Normal Grading Mode

MGT 797 THESIS **6 Credit hours**
Attributes: Thesis
Grade Mode: Normal Grading Mode

MGT 799 Business Policy **3 Credit hours**
Grade Mode: Normal Grading Mode

Management Information Systems (MIS)

MIS 600 Management Information Systems **3 Credit hours**
The course examines personal, work group, and enterprise information systems with respect to their value, their components, and the process of developing them.
Grade Mode: Normal Grading Mode

MIS 605 Systems Analysis and Design **3 Credit hours**
Introduction to information systems from system implementor's viewpoint; information systems life cycle; techniques of analysis; data dictionaries and data flow diagrams; computer-oriented system description. (PR: Admission to program)
Grade Mode: Normal Grading Mode

MIS 610 Systems Quality Assurance **3 Credit hours**
This course will cover the steps in developing enterprise IT policies, standards, guidelines and procedures while ensuring quality and compliance responsible for the design, implementation , and evaluation, and monitoring of a comprehensive system. Physical design of information systems; hardware selection; software design; database considerations; program development; software structuring techniques; cost/performance trade-offs; system implementation; evaluation and optimization techniques.
Pre-req: MIS 605 with a minimum grade of C.
Grade Mode: Normal Grading Mode

MIS 612 ITM Capstone Project **3 Credit hours**
Tools and techniques for analyzing companies and their financial statements and for evaluating financial alternatives, including discounted cash flow, net present value and returned on investment.
Grade Mode: Normal Grading Mode

MIS 615 Info Tech Strategies **3 Credit hours**
This course provides sound principles for managing information technology computers and telecommunications systems as well as the processes and procedures for applying the principles.
Grade Mode: Normal Grading Mode

MIS 620 Technology Planning **3 Credit hours**
Methods of technology planning, strategic management, and forecasting for use in technology intensive organizations are discussed, including technology life cycles and strategies for commercializing products.
Grade Mode: Normal Grading Mode

MIS 621 Information Structures I **3 Credit hours**
Representation and manipulation of numeric and non-numeric information, linear lists, strings, multilinked structures; sorting and searching; storage management; data structures in programming language. Relevant aspects of discrete mathematics.
Grade Mode: Normal Grading Mode

MIS 622 Emerging Tech in Info Systems **3 Credit hours**
This course will explore the emerging technologies in information systems. These technologies are generally new but include older technologies that are still controversial and relatively undeveloped in potential. A continuation of MIS 621. Tree, graph, and set structures; file structures for secondary storage; aspects of discrete mathematics.
Pre-req: MIS 621 with a minimum grade of C.
Grade Mode: Normal Grading Mode

MIS 623 Database Management **3 Credit hours**
Review of information structures and of relationships among data elements and objects. Relational database theory; design and organization of databases, retrieval structures, and query mechanisms.
Grade Mode: Normal Grading Mode

MIS 624 Data Warehousing **3 Credit hours**
A hand-on introduction to the concepts and techniques of data warehousing and data mining.
Pre-req: MIS 623 with a minimum grade of C.
Grade Mode: Normal Grading Mode

MIS 630 Qual & Prod Methods **3 Credit hours**
Study of quality and productivity improvement methods with emphasis on applications to knowledge worker organizations. Examines total quality management, and personal and organizational productivity improvement processes.
Grade Mode: Normal Grading Mode

MIS 647 IT Disaster Plan and Recovery **3 Credit hours**
This course provides the skills necessary to manage IT disaster recovery planning. The course focuses on the protection of information. Students will analyze risk, design a plan, and explore available technologies.
Grade Mode: Normal Grading Mode

MIS 650 Special Topics **1-4 Credit hours**
Permission of the division head and full MBA admission.
Grade Mode: Normal Grading Mode

MIS 651 Special Topics **1-4 Credit hours**
Permission of the division head and full MBA admission
Grade Mode: Normal Grading Mode

MIS 659 Digital Access Pol & Strats **3 Credit hours**
An introductory course for creating digital accessibility policies and plans for the workplace. Includes strategies to create accessible documents, evaluate web site accessibility, and investigate assistive technologies.
Grade Mode: Normal Grading Mode

MIS 660 Computing & Info Sys Tech **3 Credit hours**
Provides a board understanding of computing and information systems technologies with emphasis on development, current trends, strategic and tactical management, and legal and regulatory issues.
Grade Mode: Normal Grading Mode

MIS 670 Business Sys Proj Mgt **3 Credit hours**
This course presents concepts, structures and experiential learning strategies to help lead and participate in successful business systems projects using the Project Management Institute's (PMI's) methodology.
Grade Mode: Normal Grading Mode

MIS 678 Management Infor Systems **3 Credit hours**
To familiarize students with the characteristics and functions of management information systems, as well as the benefits, limitations, and applications for advanced management information systems.
Grade Mode: Normal Grading Mode

MIS 680 Health Comm Telematics **3 Credit hours**
A presentation and analysis of the primary and emerging technological means of communication, collaboration, and information search and retrieval within the healthcare and medical fields.
Grade Mode: Normal Grading Mode

MIS 681 Thesis **1-6 Credit hours**
Investigate a research problem of theoretical interest and practical value under mentorship of a management information systems faculty.
Attributes: Thesis
Grade Mode: Credit/No Credit Grade Only

MIS 685 Bus Intel/Analytics **3 Credit hours**
Introduction to methods to improve fact-based managerial decision making. Focus on analytics types and data manipulation to discover patterns and generate information associated with products and services.
Pre-req: MIS 678 with a minimum grade of C.
Grade Mode: Normal Grading Mode

MIS 688 Independent Study **1-4 Credit hours**
An approved study of special interests concerning information technology management, under the supervision of a faculty member.
Grade Mode: Normal Grading Mode

MIS 698 Internship **3 Credit hours**
Supervised on-the-job experience. The student will work in a technology company or technical department within an organization. (PR: Permission)
Attributes: No Textbook Required, Onsite Learning Experience
Grade Mode: Credit/No Credit Grade Only

MIS 699 Capstone **3 Credit hours**
An individualized information technology management capstone project, which will be planned and carried out under the supervision of a faculty member. (PR: Full Admission to the ITM program, and completion of 28 hours min toward ITM degree).
Grade Mode: Credit/No Credit Grade Only

Marketing (MKT)

MKT 511 Marketing and Management **3 Credit hours**
A comprehensive survey of the fundamental principles of management and marketing applicable to all organizations. Provides the student with a basis for analyzing appropriate situations in a managment/ marketing framework.
Grade Mode: Normal Grading Mode

MKT 580 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

MKT 581 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

MKT 600 Marketing Management **3 Credit hours**
Grade Mode: Normal Grading Mode

MKT 610 Mkt/Nonprofit Organizations **3 Credit hours**
Grade Mode: Normal Grading Mode

MKT 625 Hosp and Tourism Marketing **3 Credit hours**
Examinatino of marketing principles and the unique aspects of services marketing for the purpose of strategic decision making, marketing management and developing marketing plans in the tourism and hospitality industry.
Grade Mode: Normal Grading Mode

MKT 650 Special Topics **1-4 Credit hours**
Pre-req: MKT 501 with a minimum grade of C.
Grade Mode: Normal Grading Mode

MKT 651 Special Topics **1-3 Credit hours**
Grade Mode: Normal Grading Mode

MKT 660 Independent Study **1-4 Credit hours**
Pre-req: MKT 682 with a minimum grade of C.
Grade Mode: Normal Grading Mode

MKT 681 Thesis **1-6 Credit hours**
Attributes: Thesis
Grade Mode: Normal Grading Mode

MKT 682 Adv Marketing Management **3 Credit hours**
An integrated approach to marketing from a managerial point of view-making use of economic, quantitative, and behavioral concepts in analyzing and developing a framework for the dicision-making and implementation of the firm's marketing program.
Grade Mode: Normal Grading Mode

MKT 683 Adv Marketing Research **3 Credit hours**
A study of research methods and procedures used in the marketing process; emphasis will be given to the sources of market data, sampling, preparation of questionnaires, collection and interpretation of data.
Pre-req: MKT 682 with a minimum grade of C and MGT 601 with a minimum grade of C.
Grade Mode: Normal Grading Mode

MKT 684 Global Marketing **3 Credit hours**
This course provides a decision-oriented approach to global marketing; focus will be placed on market entry strategies, segmentation techniques, and marketing mix decisions in a multi-national environment.
Grade Mode: Normal Grading Mode

MKT 685 Marketing Problems **3 Credit hours**
Determination of the marketing mix within the framework of the problem-solving and decision-making process.
Pre-req: MKT 682 with a minimum grade of C.
Grade Mode: Normal Grading Mode

MKT 686 IMC for Prof Services **3 Credit hours**
The importance and application of integrated marketing communications in marketing professional services are examined. Information is drawn from business and other areas of study and experiential learning activities are incorporated.
Pre-req: MKT 501 with a minimum grade of C.
Grade Mode: Normal Grading Mode

MKT 698 Independent Study in Marketing **1-3 Credit hours**
Grade Mode: Normal Grading Mode

MKT 749 Research Paper **3 Credit hours**
Grade Mode: Normal Grading Mode

MKT 797 THESIS **6 Credit hours**
Attributes: Thesis
Grade Mode: Normal Grading Mode

Mathematics (MTH)

MTH 500 Structure of Algebra **3 Credit hours**
Emphasis on the language of Modern Elementary Algebra. Recommended for preservice elementary teachers and for elementary and secondary in-service teachers. May not be used for a degree offered by the Department of Mathematics of in the twelve hour content block of the Secondary Education MA Degree program for students with mathematics certification in grades 7-12.
Grade Mode: Normal Grading Mode

MTH 501 Structure Modern Geometry **3 Credit hours**
Informal development of geometry. Recommended for preservice elementary teachers and for elementary and secondary in-service teachers. May not be used for a degree offered by the Department of Mathematics or in the twelve hour content block of the Secondary Education MA Degree program for students with mathematics certification in grades 7-12.
Grade Mode: Normal Grading Mode

MTH 527 Advanced Calculus I **3 Credit hours**
The number system, limits, sequences, partial differentiation with applications, maxima and minima of functions of several variables. Theory of definite integrals, multiple integrals, line and surface integrals, improper integrals, infinite series.
Grade Mode: Normal Grading Mode

MTH 528 Advanced Calculus II **3 Credit hours**
The number system, limits, sequences, parital differentiation with applications, maxima and minima of functions of several variables. Theory of definite integrals, multiple integrals, line and surface integrals, infinite series.
Pre-req: MTH 527 with a minimum grade of C.
Grade Mode: Normal Grading Mode

MTH 548 Modern Geometries **3 Credit hours**
Finite geometrics, basic background material for the modern development of Euclidean Geometry, other geometries.
Grade Mode: Normal Grading Mode

MTH 549 Projective Geometry **3 Credit hours**
Projective geometry using both synthetic and algebraic methods.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MTH 550 Modern Algebra I **3 Credit hours**
Structure of the abstract mathematical systems; groups, rings, fields, with illustrations and applications from Number Theory.
Grade Mode: Normal Grading Mode

MTH 552 Modern Algebra II **3 Credit hours**
Structure of the abstract mathematical systems; groups, rings, fields, with illustrations and application from Number Theory.
Pre-req: MTH 550 with a minimum grade of C.
Grade Mode: Normal Grading Mode

MTH 580 Special Topics **1-4 Credit hours**
Courses on special topics not listed among the current course offerings.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MTH 585 Independent Study **1-4 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MTH 589 Graduate Mathematics Seminar **1 Credit hour**
A seminar on topics relevant to graduate students in mathematics, including college-level teaching, conducting research, professional ethics, and mathematics careers. This course does not satisfy any degree requirements.
Attributes: No Textbook Required
Grade Mode: Credit/No Credit Grade Only

MTH 615 Partial Differential Equations **3 Credit hours**
Elementary partial differential equations. Heat equation, Laplace's equation, separation of variables, Fourier series, vibrating strings, eigenvalue problems, finite differences, Bessel functions, Legendre polynomials.
Grade Mode: Normal Grading Mode

MTH 616 Advanced Differential Equ **3 Credit hours**
Differential equations are studied qualitatively. Topics include the existence and uniqueness of solutions and the behavior of solutions including the stability of nonlinear systems, periodic solutions, and approximation using perturbation methods.
Grade Mode: Normal Grading Mode

MTH 630 Topology I **3 Credit hours**
General topology including separation axioms, connectedness, compactness, convergence, continuity, metric spaces, product and quotient spaces.
Grade Mode: Normal Grading Mode

MTH 631 Topology II **3 Credit hours**
General topology including separation axioms, connectedness, compactness, convergence, continuity, metric spaces, product and quotient spaces.
Pre-req: MTH 630 with a minimum grade of C and MTH 550 with a minimum grade of C.
Grade Mode: Normal Grading Mode

MTH 635 Graph Theory and Combinatorics **3 Credit hours**
The course is designed to introduce students in mathematical sciences to the theorems, techniques and applications of graph theory and combinatorics.
Grade Mode: Normal Grading Mode

MTH 640 Complex Variables I **3 Credit hours**
A study of algebra, topology, and geometry of the complex plane; holomorphic functions; conformal mapping; analytic functions and analytic continuation; complex integration; representation theorems; convergence theorems and related topics.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MTH 642 Numerical Linear Algebra **3 Credit hours**
Direct and iterative methods for numerical solution of linear systems of equations. Eigenvalues and eigenvectors. Error analysis and norms. Related Topics.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MTH 643 Numerical Analysis **3 Credit hours**
The theory and technique of numerical computation involving the difference calculus, the summation calculus, interpolation methods, solutions of equations, and methods of solution of ordinary differential equations.
Grade Mode: Normal Grading Mode

MTH 650 Real Variables I **3 Credit hours**
A study of measure and integration and related topics.
Pre-req: MTH 528 with a minimum grade of C.
Grade Mode: Normal Grading Mode

MTH 655 Number Theory and Cryptography **3 Credit hours**
A survey of number theory and cryptography topics. Topics include divisibility, modular arithmetic, quadratic residues, and quadratic reciprocity, hashing algorithms, cipher methods, and cryptanalysis.
Grade Mode: Normal Grading Mode

MTH 667 Num Partial Diff Equations **3 Credit hours**
Finite difference methods for elliptic, parabolic, and hyperbolic PDEs. Study of properties such as consistency, convergence, and stability. Computer implementation.
Pre-req: MTH 527 with a minimum grade of C.
Grade Mode: Normal Grading Mode

MTH 670 Independent Study **1-4 Credit hours**
An independent program of study of advanced topics not normally covered in other courses. The topics are chosen upon mutual agreement between the student and the instructor
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MTH 681 Thesis **1-6 Credit hours**
Attributes: No Textbook Required, Onsite Learning Experience, Thesis
Grade Mode: Normal Grading Mode

MTH 690 Special Topics **1-4 Credit hours**
Courses on special topics not listed among the current course offerings. (PR: Permission of Instructor)
Grade Mode: Normal Grading Mode

Mechanical Engineering (ME)

ME 502 Principles and Practices-ME **2 Credit hours**
Grade Mode: Normal Grading Mode

ME 515 Vehicle Dynamics **3 Credit hours**
Deals with ground vehicle stability and control. Contribution of tire lateral force, stiffness, and aligning torque to stability. Effects of suspension geometry, chassis stiffness, and roll stiffness.
Grade Mode: Normal Grading Mode

ME 520 Intro Comp Fluid Dynamic **3 Credit hours**
This course covers governing equations, ordinary differential equations (ODEs), numerical integration; finite difference and finite volume methods for parabolic, ellipitic, hyperbolic partial differential equations (PDEs), numerical linear algebra; turbulence modeling.
Grade Mode: Normal Grading Mode

ME 530 Renewable Energy **3 Credit hours**
Basic principles and technical details of various renewable energy technologies for the sustainable future. Process design, energy analysis, engineering economics and environmental assessment of renewable energy systems.
Grade Mode: Normal Grading Mode

ME 545 Nano-Materials **3 Credit hours**
Covers fundamentals of nanomaterial and nanotechnology. Unique properties of nanomaterials. Synthesis methods of various nanomaterials. Nano and microfabrication techniques. Applications of nanomaterials in various technologies, environmental science, biotechnology and biomedicine.
Grade Mode: Normal Grading Mode

ME 560 Automation and Control **3 Credit hours**
This course provides an overview of the principles of automation and concept of system control, including instrumentation, control, human interface, and communication subsystems.
Grade Mode: Normal Grading Mode

ME 601 Advanced Engr Analysis I **3 Credit hours**
The core of this course is to learn advance analytical and computational methods to solve multi-dimensional conduction, convection-advection, mechanical vibration, and elasticity equations.
Grade Mode: Normal Grading Mode

ME 602 Advanced Engr Analysis II **3 Credit hours**
This is the second course in a two-course sequence to learn advanced analytical and computational methods to solve multi-dimensional diffusion, heat, biharmonic, and elasticity equations.
Grade Mode: Normal Grading Mode

ME 604 Research Methods **3 Credit hours**
Research methods in engineering conducting critical reviews of research literature, preparing pre-proposal, and initiating background research on a thesis topic. Student is expected to submit a thesis pre-proposal.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

ME 617 Additive Manufacturing **3 Credit hours**
Additive manufacturing (AM), rapid prototyping, rapid tooling, joining processes, direct digital manufacturing to form 3D parts with applications ranging from prototyping to production in aerospace, defense, and biomedical industries.
Grade Mode: Normal Grading Mode

ME 619 Fuel Cell Technology **3 Credit hours**
Fundamentals and applications of fuel cell and hydrogen technology. It includes thermodynamics, electrochemical kinetics, fuel cell electrode catalysts, fuel cell systems, fuel reforming, hydrogen production, storage, safety.
Grade Mode: Normal Grading Mode

ME 621 Corrosion Engineering **3 Credit hours**
Covers the causes and mechanisms of aqueous corrosion, electrochemistry and thermodynamicsof corrosion. Materials selection, design for minimization of corrosion, and corrosion protection. Case studies are discussed.
Grade Mode: Normal Grading Mode

ME 622 Design of Wind Farms **3 Credit hours**
Design and operation of wind farms. Topics include wind energy principles, wind site assessment, components, power generation machinery, control systems, connection to the electric grid and transmission, and energy storage.
Grade Mode: Normal Grading Mode

ME 625 Tribology **3 Credit hours**
Detailed coverage of the mechanisms of friction, material wear, and major lubrication techniques - liquids, solids, and gases - with traditional and modern applications. Coverage of micro/nanotribology, MEMS, and magnetic surface storage applications.
Grade Mode: Normal Grading Mode

ME 628 Applied Biomaterials **3 Credit hours**
Covers the knowledge needed to select and design biomaterials used in medical devices with emphasis on metallic, ceramic, polymeric, and composite biomaterials. Explains the difference between materials science and materials engineering.
Grade Mode: Normal Grading Mode

ME 630 Manufacturing Systems **3 Credit hours**
This course covers tool design and metal cutting theory, CAD/CAM, CIM, CNC m/c, CNC programming, fixture design, metal forming, gear manufacturing, non-tradtional machining, PLC, flexible manufacturing, robotics, rapid prototyping/tooling.
Grade Mode: Normal Grading Mode

ME 635 Advanced Vibrations **3 Credit hours**
Modeling of vibratory motion of advanced mechanical and structural systems, including continuous systems, nonlinear systems and systems with random excitations.
Grade Mode: Normal Grading Mode

ME 640 System Modeling **3 Credit hours**
Overview of system modeling and simulation of complex systems with mechanical, hydraulic, thermal and/or electrical elements. Frequency response analysis, stability, and numerical analysis of system modeling.
Grade Mode: Normal Grading Mode

ME 645 Nonlinear Dynamics **3 Credit hours**
Nonlinear dynamical systems, including concepts of chaos, fractal and classic dynamics equations, one dimension systems, two dimension systems, phase plane, limit cycle, bifurcation, Lorenz equation, and fractals.
Grade Mode: Normal Grading Mode

ME 649 Sustainable Energy Management **3 Credit hours**
Sustainable energy management, provides an overview of mechanical and control systems within buildings with sub-systems which possess a visible energy signature in terms of energy usage, inefficiency, and impact.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

ME 650 Special Topics **1-4 Credit hours**
Subject matter to be selected from topics of current interest.
Grade Mode: Normal Grading Mode

ME 651 Special Topics **1-4 Credit hours**
Subject matter to be selected from topics of current interest.
Grade Mode: Normal Grading Mode

ME 652 Special Topics **1-4 Credit hours**
Subject matter to be selected from topics of current interest.
Grade Mode: Normal Grading Mode

ME 653 Special Topics **1-4 Credit hours**
Subject matter to be selected from topics of current interest.
Grade Mode: Normal Grading Mode

ME 699 Thesis **1-6 Credit hours**
This course covers the communication problems encountered in researching and writing a thesis: the scientific writing of a research paper, the speaking and presenting skills, and the organization skills.
Attributes: Thesis
Grade Mode: Normal Grading Mode

Medical Curriculum (MDC)

MDC 710 Elements of Medicine **9 Credit hours**
Elements of Medicine introduces the student to the fundamental concepts necessary to understand the structure and function of the human body at a molecular level.
Grade Mode: Normal Grading Mode

MDC 711 Structure and Function I **5 Credit hours**
The Structure and Function I block introduces students to the organization of the human body at a gross and microscopic level while integrating the cellular processes that underlie the normal physiology of the musculoskeletal system and the integument.
Grade Mode: Normal Grading Mode

MDC 712 Structure and Function II **8 Credit hours**
Nervous System and Behavior is an integrated course for first year medical students. Students will understand how internal (neurobiological) and external (family, community, and culture) processes determine human experience and behavior, and to introduce students to the diseases and disease processes which adversely affect the nervouse system and behavior.
Grade Mode: Normal Grading Mode

MDC 713 Structure and Function III **6 Credit hours**
Structure and Function III provides first year medical students with a solid foundation in normal human cardiovascular, pulmonary and renal structure and function.
Grade Mode: Normal Grading Mode

MDC 714 Structure and Function IV **6 Credit hours**
Structure and Function IV provides first year medical students with a solid foundation in normal human gastrointestinal, endocrine and reproductive structure and function.
Grade Mode: Normal Grading Mode

MDC 750 Principles of Disease **7 Credit hours**
Principles of Disease is an integrated introduction to human disease and treatment based on core concepts in microbiology, immunology, pharmacology, genetics, and pathology.
Grade Mode: Pass/Fail Grading Mode

MDC 751 Disease and Therapeutics I **6 Credit hours**
Disease and Therapeutics I introduces the student to the fundamental concepts necessary to understand disease processes, diagnostics and therapeutic options for diseases of the Musculoskeletal, Dermatologic and Hematopoietic systems.
Grade Mode: Pass/Fail Grading Mode

MDC 752 Disease and Therapeutics II **7 Credit hours**
Disease and Theapeutics II introduces the student to the fundamental concepts necessary to understand disease processes, diagnostics and therapeutic options for diseases of the nervous system.
Grade Mode: Pass/Fail Grading Mode

MDC 753 Disease and Therapeutics III **8 Credit hours**
Disease and Therapeutics III introduces the student to the fundamental concepts necessary to understand disease processes, diagnostics and therapeutic options for diseases of the cardiovascular, pulmonary and renal systems.
Grade Mode: Pass/Fail Grading Mode

MDC 754 Disease and Therapeutics IV **9 Credit hours**
Disease and Therapeutics IV introduces the student to the fundamental concepts necessary to understand disease processes, diagnostics and therapeutic options for diseases of teh Gastrointestinal, Genitourinary and Endocrine systems.
Grade Mode: Pass/Fail Grading Mode

MDC 800 Physicians in Practice **1-18 Credit hours**
This course will focus primarily on the non-medical knowledge competencies of the curriculum. This will include professionalism, systems based practice, practice-based learning and improvement, interpersonal and communication skills, and clinical and translational sciences.
Grade Mode: Pass/Fail Grading Mode

MDC 801 Mol and Cell Foundations **1-18 Credit hours**
This course will provide the molecular and cellular background for understanding human health and disease, as well as the basis for understanding human interactions with microorganisms, an introduction to pharmacology, and a comprehensive introduction to host defenses. Through the content covered the course will introduce students to a core set of medical knowledge required to understand, implement, and explain clinical decisions. Skills building will include teamwork, professionalism, life-long learning, and curation of appropriate information sources.
Grade Mode: Pass/Fail Grading Mode

MDC 802 Hema Oncol Micro Host Defense **1-18 Credit hours**
The HOME content areas focus on the fundamental concepts of microbiology, immunology, oncology, and hematology with an introduction to core concepts in pharmacology and pathology.
Grade Mode: Pass/Fail Grading Mode

MDC 803 Patient Care & Clinical Skills **1-18 Credit hours**
This course will help students master the skills necessary for obtaining a thorough history and performing a complete physical exam. This course will instruct and assess on all components necessary to provide clinical care.
Grade Mode: Pass/Fail Grading Mode

MDC 804 The Neurological Network **9 Credit hours**
This course will integrate the basic science and clinical information related to musculoskeletal, neurological, and psychiatric disorders. The course will focus primarily on the medical knowledge learning objectives, but will also include practice based learning, professionalism, and interpersonal and communication skills objectives.
Grade Mode: Pass/Fail Grading Mode

MDC 805 Nutrition & Gastroenterology **1-18 Credit hours**
The goal of this course is to provide students with foundations of determinants of health and disease of the gastrointestinal system and explore the effects of nutrition on human health and disease. True vertical integration of relevant foundational science disciplines are leveraged to highlight the interplay of key concepts in the pathophysiology and management of diseases of the digestive system. Variety of active and self-directed learning pedagogies, including team-based learning, clinical correlates, small group activities, and independent study of clinical cases complement the didactic material and help the student apply the material to medical problem solving. The course is centered on patient care and integrates with the longitudinal course “Patient Care and Clinical Skills” to enhance the understanding and application of foundational sciences to the practice of medicine.
Grade Mode: Pass/Fail Grading Mode

MDC 806 Patient Care & Clin Skills II **1-18 Credit hours**
A continuation of the first year course, this course will help students master the skills necessary for obtaining a thorough history and performing a complete physical exam. This course will instruct and assess on all components necessary to provide clinical care.
Grade Mode: Pass/Fail Grading Mode

MDC 807 Cardio, Renal, & Res Sys **1-18 Credit hours**
This course will help students master the foundational concepts and clinical correlations for diseases of the three vital organ systems. The course employs integrative approach to build foundations for understanding determinates of health and disease related to these organ systems. All relevant foundational disciplines, including anatomy, physiology, pathology, pharmacology, and radiology will be covered in this course.
Grade Mode: Pass/Fail Grading Mode

MDC 808 Reproduction and Endocrinology **1-18 Credit hours**
The goal of this course is to provide students with foundations of determinants of health and disease of the endocrine and the reproductive system. True vertical integration of relevant foundational science disciplines are leveraged to highlight the interplay of key concepts in the pathophysiology and management of diseases of these. Variety of active and self-directed learning pedagogies, including team-based learning, clinical correlates, small group activities, and independent study of clinical cases complement the didactic material and help the student apply the material to medical problem solving.
Grade Mode: Pass/Fail Grading Mode

MDC 809 Comp Basic Science Exam **1-18 Credit hours**
This course includes students independent study and preparation for the Comprehensive Basic Science Examination. Students must demonstrate their overall knowledge of the foundational sciences that are critical to the practice of medicine by earning a passing grade on the CBSE.
Grade Mode: Pass/Fail Grading Mode

MDC 810 Pre-Clerkship **1-6 Credit hours**
This course includes the development and implementation of an independent study plan in preparation for repeat of M2.
Grade Mode: Pass/Fail Grading Mode

MDC 812 Prin and Prac of Clin Research **1-18 Credit hours**
Students will learn about the following areas of clinical research: biostatistical and epidemiological methods, study design, protocol development, clinical trial implementation, data monitoring and auditing, quality assurance, and ethical and legal issues.
Grade Mode: Pass/Fail Grading Mode

MDC 813 Prof Identity Development **1-18 Credit hours**
Provide entering JCESOM first year students with foundations of professionalism, ethics, identity development and commitment to compassionate care to all in a variety of health care settings. Didactic and small group sessions, Team-Based Learning (TBL), and Self-Directed Learning (SDL) will be used to teach students these core concepts.
Grade Mode: Pass/Fail Grading Mode

MDC 814 The Musculoskeletal System **1-18 Credit hours**
The course will address foundational knowledge in key areas medicine, and will address Institutional Objectives, including medical knowledge, interpersonal and communication skills, professionalism, and critical thinking and problem solving.
Grade Mode: Pass/Fail Grading Mode

MDC 815 Med Student Summer Research **1-18 Credit hours**
This elective course aims to provide pre-clerkship medical students with an opportunity to conduct research under the mentorship of a basic science or clinical faculty member and to learn research methods.
Grade Mode: Pass/Fail Grading Mode

Medicine (MED)

MED 680 Special Topics in Medicine **1-18 Credit hours**
This special topics in medicine course will provide the student with a better understanding of a selected topic of study.
Grade Mode: Pass/Fail Grading Mode

MED 710 Intro to Medicine **2 Credit hours**
Grade Mode: Normal Grading Mode

MED 713 Med Clerksp Kellogg **4 Credit hours**
Comprehensive coverage at the introductory level of internal medicine (in the Kellogg curriculum). The reduction in credit from the standard clerkship is to accommodate Kellogg curriculum.
Grade Mode: Normal Grading Mode

MED 720 Intro Clinical Medicine **3 Credit hours**
Pre-req: MED 710.
Grade Mode: Normal Grading Mode

MED 721 Intro Clinical Medicine **3 Credit hours**
Pre-req: MED 720.
Grade Mode: Normal Grading Mode

MED 725 Approach to Patient Care **1-18 Credit hours**
Introduction to clinical medicine and physical diagnosis.
Grade Mode: Normal Grading Mode

MED 726 Approach to Patient Care **1-18 Credit hours**
Introduction to clinical medicine and physical diagnosis.
Grade Mode: Normal Grading Mode

MED 730 Physical Exam Of Patient **3 Credit hours**
Pre-req: MED 710.
Grade Mode: Normal Grading Mode

MED 731 Physical Exam Of Patient **3 Credit hours**
Pre-req: MED 730.
Grade Mode: Normal Grading Mode

MED 740 Internal Med Clerkship **8 Credit hours**
Pre-req: MED 730 and MED 731.
Grade Mode: Normal Grading Mode

MED 742 Internal Medicine Clerkship **1-18 Credit hours**
Grade Mode: Pass/Fail Grading Mode

MED 744 Required Medicine **4 Credit hours**
Grade Mode: Normal Grading Mode

MED 755 Advanced Clinical Skills **1-18 Credit hours**
Grade Mode: Pass/Fail Grading Mode

MED 780 Elective Special Projects **1-18 Credit hours**
Grade Mode: Pass/Fail Grading Mode

MED 785 Independent Study **1-15 Credit hours**
Independent study in Medicine is designed to allow the student the opportunity to work with a faculty member on a topic of special interest.
Grade Mode: Credit/No Credit Grade Only

MED 800 Adv Skills Clin Epidemiology **1-18 Credit hours**
This MS IV course will cover necessary skills in epidemiology used in clinical practice for both interpretation of the medical literature and application to patient care.
Grade Mode: Normal Grading Mode

MED 801 Clinical Cardiology **1-18 Credit hours**
This elective will provide medical students with the opportunity to learn about the day to day functions of a variety of non physician health care providers by shadowing a member of a different discipline each day.
Grade Mode: Normal Grading Mode

MED 801A Clinical Cardiology Rehab **1-18 Credit hours**
Grade Mode: Normal Grading Mode

MED 805 Clin Endocrinology Metab **1-18 Credit hours**
Grade Mode: Pass/Fail Grading Mode

MED 806 Research Endocrinol Metab **1-18 Credit hours**
Grade Mode: Normal Grading Mode

MED 807 Clinical Gastroenterology **1-18 Credit hours**
Grade Mode: Pass/Fail Grading Mode

MED 808 Research in G I Disease **1-18 Credit hours**
Pre-req: MED 740.
Grade Mode: Normal Grading Mode

MED 809 Primary Care Internal Med **1-18 Credit hours**
Grade Mode: Normal Grading Mode

MED 811 Clin Hematology Oncology **1-18 Credit hours**
Grade Mode: Pass/Fail Grading Mode

MED 813 Clin Infectious Diseases **1-18 Credit hours**
Grade Mode: Pass/Fail Grading Mode

MED 814 Research Infectious Dis **1-18 Credit hours**
Pre-req: MED 740.
Grade Mode: Normal Grading Mode

MED 816 Internal Medicine Research **4-6 Credit hours**
Grade Mode: Pass/Fail Grading Mode

MED 817 Clinical Nephrology **1-18 Credit hours**
Grade Mode: Pass/Fail Grading Mode

MED 819 Clinical Pharmacology **1-18 Credit hours**
Pre-req: MED 740.
Grade Mode: Normal Grading Mode

MED 820 POCUS **2-4 Credit hours**
Students will learn what Point of Care Ultrasound is and how to use it in patient care. They will have the option to receive POCUS certification at the end of the course.
Grade Mode: Pass/Fail Grading Mode

MED 821 Clin Pulmonary Diseases **1-18 Credit hours**
Grade Mode: Pass/Fail Grading Mode

MED 822 Clin Respiratory Physiol **1-18 Credit hours**
Grade Mode: Normal Grading Mode

MED 823 Clinical Rheumatology **1-18 Credit hours**
Grade Mode: Pass/Fail Grading Mode

MED 826 Hospital Medicine **1-18 Credit hours**
This elective for fourth year medical students provides a structured clinical experience in the field of academic hospital medicine. It is designed to be a well supervised and personalized educational experience that will serve to improve and build upon those cognitive and technical clinical skills already attained during the junior medicine clerkshop. Through this elective, the student will learn the clinical skills and attitudes essential to the practice of hospital medicine and the delivery of the highest quality patient care.
Grade Mode: Pass/Fail Grading Mode

MED 827 Adv Clerkship in Medicine **1-18 Credit hours**
Grade Mode: Pass/Fail Grading Mode

MED 828 Advanced Clerkship in Med/Peds **1-12 Credit hours**
This elective for fourth year medical students provides a structured clinical experience in the broad field of General Internal Medicine and Pediatrics. It is designed to be a well supervised educational experience that will serve to improve and build upon those cognitive and technical clinical skills already attained during the junior cleckships. Through this elective, the student will learn the clinical skills and attitudes essential to the practice of General Internal Medicine and Pediatrics.
Grade Mode: Pass/Fail Grading Mode

MED 829 Neurology **1-18 Credit hours**
Grade Mode: Normal Grading Mode

MED 830 Interdisciplinary Medicine **1-18 Credit hours**
Grade Mode: Pass/Fail Grading Mode

MED 831 Clin Endocrin Nuclear Med **1-18 Credit hours**
Pre-req: MED 740.
Grade Mode: Normal Grading Mode

MED 833 Critical Care Medicine **1-18 Credit hours**
Grade Mode: Pass/Fail Grading Mode

MED 835 Physical Medicine **1-18 Credit hours**
Grade Mode: Normal Grading Mode

MED 839 Geriatric Medicine **1-18 Credit hours**
Grade Mode: Normal Grading Mode

MED 858 In-State Externship in Med **1-18 Credit hours**
Clinical course to allow students to complete clinical training at approved sites within the State of West Virginia that is no a MUSOM site.
Grade Mode: Pass/Fail Grading Mode

MED 868 Med Externship **1-18 Credit hours**
Grade Mode: Pass/Fail Grading Mode

MED 888 Rural Medicine **1-18 Credit hours**
Acquaints students with issues of rural community health and wellness. Provides students with knowledge, attitudes and skills to participate in a changine health care environment.
Grade Mode: Normal Grading Mode

MED 899 Medical School **1-18 Credit hours**
Grade Mode: Normal Grading Mode

Mgt Prac Nurse Anesthesia (MPNA)

MPNA 700 Health Policy and Delivery **3 Credit hours**
This course is designed to provide the student with an overview of the development of health policy and delivery in the United States. Emphasis is placed onthe evolution of the structure, financing and function of the current delivery system in America and how these aspects complare to those of other countries.
Grade Mode: Normal Grading Mode

MPNA 710 Fin Mgmt for Health Care Prof **3 Credit hours**
Application of financial management techniques to decision making for health care providers. Focus is on financial statement analysis, working capital management, capital budgeting, evaluating financial risk and return, long-term debt financing, and developing a financial portfolio.
Grade Mode: Normal Grading Mode

MPNA 711 Mkt & Mgt for Health Care Prof **3 Credit hours**
This course will provide an overview of the basic components of marketing such as the marketing mix and SWOT analysis. It will also enlighten the students regarding the various etablished basic management theories.
Grade Mode: Normal Grading Mode

MPNA 715 Health Economics **3 Credit hours**
Economic analysis applied to the health services sector. Traditional concepts such as efficiency, production and distribution are discussed within the context of the unique health care environment. The micro/macro economic impacts of health insurance, government participation, credentialing and regulation are analyzed.
Grade Mode: Normal Grading Mode

MPNA 724 Evidence Based Rscrch Mthds I **3 Credit hours**
This course is designed to provide the student with the necessary foundation to participate in the design, implementation and evaluation of field and/or clinical research. Upon completion of this course, the student will understand the basics of the scientific method and its application to research design. The role of the Institutional Review Board, including the Belmont Report, will be discussed. Student will be IRB certified by the end of the course.
Pre-req: MPNA 700.
Grade Mode: Normal Grading Mode

MPNA 725 Evidence Based Rsrch Mthds II **3 Credit hours**
To provide the student with an understanding of the appropriateness, benefits and limitations of statistical methods when applied to field and/or clinical research. Upon completion of the course, the student will understand the theory behind parametric and nonparametric statistical techniques. At this point, students will begin to conceptualize their research projects.
Pre-req: MPNA 724.
Grade Mode: Normal Grading Mode

MPNA 726 Statistical Methods for Resear **3 Credit hours**
To provide the student with the skills necessary to apply the appropriate statistical techniques for field and/or clinical research. Topics include analysis of variance, correlation and regression, chi-square, t-tests, etc.
Pre-req: MPNA 700.
Grade Mode: Normal Grading Mode

MPNA 730 Medical/Legal Issues **3 Credit hours**
Legal aspects of corporate liability, medical malpractice, informed consent, patient rights, privacy, fraud and abuse, plus governmental regulation of health professionals and health facilities. The legislative process, legislative oversight and regulatory agencies are discussed in depth.
Grade Mode: Normal Grading Mode

MPNA 734 Principles of Anesthesia Prac **4 Credit hours**
Principles of patient assessment, airway management, anesthesia machine, monitoring devices, fluid and blood therapy, positioning, and prevention of infection. Recognition and management of selected anesthetic complications.
Grade Mode: Normal Grading Mode

MPNA 734A Simulation Lab **1-5 Credit hours**
In this course students will apply knowledge of the basic principles of anesthesia to "hands on" experience in the simulation lab. Areas covered include the anesthesia machine and other equipment, monitoring modalities, airway management, and all phases of anesthetic management.
Co-req: MPNA 734
Attributes: Onsite Learning Experience
Grade Mode: Normal Grading Mode

MPNA 735 Senior Seminar **3 Credit hours**
Management decisions related to complex anesthesia situations including but not limited to: unusual co-existing disease, uncommon operative procedure, adverse complications or unexpected events.
Grade Mode: Normal Grading Mode

MPNA 743 Management and Leadership **6 Credit hours**
The application of management and leadership principles via clinical job rotation, implementation of advanced management principles to the delivery of nurse anesthesia patient care in various settings.
Pre-req: NUR 741.
Grade Mode: Normal Grading Mode

MPNA 745A Pediatrics for Nurse Anesth I **3 Credit hours**
In-depth study of the specialty of pediatric anesthesia. Subject matter will include: anatomy, physiology, and pathophysiology of the pediatric patient, preoperative evaluation and preparation, airway management, implications of rare pediatric disorders, and management for painful procedures.
Grade Mode: Normal Grading Mode

MPNA 745B Obstetrics for Nurse Anesth II **3 Credit hours**
Course takes an in-depth look at the normal physiological changes associated with pregnancy. It will investigate management issues starting from the basic advancing to the complex. Issues include maternal fetal physiology, fetal monitoring, anesthetic techniques, high-risk pregnancy, emergency management, and fetal and neonatal resuscitation.
Grade Mode: Normal Grading Mode

MPNA 745C Case Seminar **6 Credit hours**
Management decisions related to complex anesthesia situations including but not limited to: unusual co-existing disease, uncommon operative procedure, adverse complications or unexpected events. Study of the anesthetic care of specialized patient populations requiring advanced planning, decision making and case management proficiency.
Pre-req: NUR 741.
Grade Mode: Normal Grading Mode

MPNA 753 Mgmt Complex Health Care **3 Credit hours**
In this course, emphasis is placed on the management of complex health care institutions representing the organizational spectrum from horizontally integrated group practices to large integrated health centers.
Pre-req: MPNA 700.
Grade Mode: Normal Grading Mode

MPNA 755 Mkt Goods/Serv Med Env **3 Credit hours**
An investigation of the role of marketing in today's health care environment. Topics include traditional marketing concepts such as segmentation and promotion blended with unique issues like health services marketing, direct to consumer pharmaceutical advertising, mass media ethics, the role of the Internet in health product/services marketing etc.
Pre-req: MPNA 700.
Grade Mode: Normal Grading Mode

MPNA 756 Clinical and Admin IS **3 Credit hours**
Foundations of clinical information use starting with information collection, processing, decision making and recording. Special emphasis on management information systems to support the nurse's work and health care delivery.
Pre-req: MGT 678.
Grade Mode: Normal Grading Mode

MPNA 772 Organizational Behavior **3 Credit hours**
Advanced level theories of effective organization management as they relate to health care organizations will be provided. Topics include: managing diverse work groups in the health care system, planning and organizing, decision making models, various leadership styles, and controlling and evaluating management effectiveness.
Grade Mode: Normal Grading Mode

MPNA 777 Moral Management **3 Credit hours**
A discussion of the concept of Moral Management. Guidelines for how to make thical decisions and tough choices are included. Cases relevant to ethical/unethical scenarios will be analyzed. Students will view ethics videos and write a Credo term paper.
Grade Mode: Normal Grading Mode

MPNA 796 Policy Strategy Entrepreneur **3 Credit hours**
The study of administrative decision making under conditions of uncertainty. Policy construction at top administrative levels with emphasis on strategy and ethics with consideration of major functions of an organization. Includes developing a business plan, assessing the environment, evaluating markets, securing financing, marketing services, analyzing and negotiating managed care, and insurance contracts.
Grade Mode: Normal Grading Mode

MPNA 799 Research Project **3 Credit hours**
This is a 9 credit hour sequence of three (3 credit hours) courses. The student is required to apply the principles of scientific research methods to a field and/or clinical investigation. Students are required to design, implement, evaluate and present (written and oral) a research project approved and guided by the student's research project committee. Each student will have a research project committee chair and two toher designated committee members.
Grade Mode: Normal Grading Mode

Microbiology (MCB)

MCB 620 Prin Medical Microbiology **6 Credit hours**
The study of mocroorganisms, immunobiology, immunologic disesases, host resistance and the means by which diseases are produced and prevented.
Grade Mode: Normal Grading Mode

MCB 622 Curr Topics Molec Biology **1 Credit hour**
Critical discussion of current literature/concepts. Participants present published research papers on topics with a molecular biology component. Presentations are followed by discussion/evaluation of the contribution of the research.
Grade Mode: Credit/No Credit Grade Only

MCB 631 Medical Microbiology I **3 Credit hours**
This course will present the major aspects of the field of medical microbiology with emphasis on selected pathogenic organisms.
Pre-req: BMS 600.
Grade Mode: Normal Grading Mode

MCB 632 Medical Microbiology II **2 Credit hours**
This course will present a continuation of the major aspects of the field of medical microbiology with emphasis on the major pathogenic organisms.
Pre-req: BMS 600 and MCB 631.
Grade Mode: Normal Grading Mode

MCB 642 Graduate Microbiology I **4 Credit hours**
An advanced treatment of microbiology with emphasis on the molecular aspects of anatomy, taxonomy, and physiology and genetics of microorganisms.
Grade Mode: Normal Grading Mode

MCB 643 Principles of Immunology **3 Credit hours**
Basic principles of the immune response system of humans and related mammals. Concepts of B & T cell function and interrelationships emphasized.
Grade Mode: Normal Grading Mode

MCB 648 Molec Aspects of Pathogenesis **3 Credit hours**
An in depth study of molecular mechanisms of bacterial, viral, and immune-mediated disease processes.
Grade Mode: Normal Grading Mode

MCB 660 Diagnostic Virology **3 Credit hours**
A comprehensive survey of methodologies used to detect and characterize viral specific antibodies and antigens and the status of cellular immunity in virus infected hosts.
Pre-req: MCB 620.
Grade Mode: Normal Grading Mode

MCB 675 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

MCB 676 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

MCB 677 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

MCB 679 Special Problems **1-3 Credit hours**
Grade Mode: Normal Grading Mode

MCB 720 Microbiology **6 Credit hours**
Grade Mode: Normal Grading Mode

MCB 743 Principles of Immunology **3 Credit hours**
Basic principles of the immune response system of humans and related mammalian representatives. The concepts of B and T cell function and their interrelationships will be emphasized.
Grade Mode: Normal Grading Mode

MCB 780 Elective Special Projects **1 Credit hour**
Grade Mode: Normal Grading Mode

MCB 785 Independent Study **1-15 Credit hours**
Independent Study in Microbiology is designed to allow the student the opportunity to work with a faculty member on a topic of special interest.
Grade Mode: Credit/No Credit Grade Only

MCB 813 Research in Microbiology **1-18 Credit hours**
Attributes: Thesis
Grade Mode: Normal Grading Mode

MCB 814 Clin Lab Microbiol Immun **1-18 Credit hours**
Grade Mode: Normal Grading Mode

Mine Safety (MSF)

MSF 510 Survey of Mining **3 Credit hours**
An overview of mining to provide the participant with a general understanding of mining history, development systems terminology, procedures, methods and safety and health activities.
Grade Mode: Normal Grading Mode

MSF 511 Mine Safety Prog Analysis **3 Credit hours**
This course prepares the participant for the effective analysis of safety programs and provides some specific applications in the mining environment.
Grade Mode: Normal Grading Mode

MSF 512 Mine Safety Hlth Legisla **3 Credit hours**
A survey of the legislation that has affected safety and health in mining with special emphasis of the Federal Mine Safety and Health Act of 1977.
Grade Mode: Normal Grading Mode

MSF 513 Mine Safety Hlth Manage **3 Credit hours**
This course covers the principles, functions and philosophies of mine management.
Grade Mode: Normal Grading Mode

MSF 514 Hazard Control in Mining **3 Credit hours**
A study of how to recognize accident potential through-out the mining industry.
Grade Mode: Normal Grading Mode

MSF 526 Ind Toxic Airborne Contam **3 Credit hours**
Principles of Toxicology: biochemistry, biological monitoring, biological transformation and chemical hazards. Properties, behavior and measurement of airborne particles. Special topics: sampling and evaluating airborne asbestos dust.
Grade Mode: Normal Grading Mode

MSF 527 Phys Biol Health Hazards **3 Credit hours**
Physical hazards: heat, moise and radiation. Biological hazards: atmospheric transport of microorganisms that cause disease.
Grade Mode: Normal Grading Mode

MSF 580 Special Topics **1-4 Credit hours**
A study of special topics not offered in regularly scheduled courses.
Grade Mode: Normal Grading Mode

MSF 581 Special Topics **1-4 Credit hours**
A study of special topics not offered in regularly scheduled courses.
Grade Mode: Normal Grading Mode

MSF 582 Special Topics **1-4 Credit hours**
A study of special topics not offered in regularly scheduled courses.
Grade Mode: Normal Grading Mode

MSF 583 Special Topics **1-4 Credit hours**
A study of special topics not offered in regularly scheduled courses.
Grade Mode: Normal Grading Mode

MSF 585 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

MSF 586 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

MSF 587 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

MSF 588 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

MSF 591 Workshop **1-4 Credit hours**
Grade Mode: Normal Grading Mode

MSF 592 Workshop **1-4 Credit hours**
Grade Mode: Normal Grading Mode

MSF 593 Workshop **1-4 Credit hours**
Grade Mode: Normal Grading Mode

MSF 594 Workshop **1-4 Credit hours**
Grade Mode: Normal Grading Mode

MSF 621 Systm Safety Engin Mining **3 Credit hours**
A study of the analytical tools used in the recognition, evaluation and control of exposure to hazards in the Mining Industry.
Grade Mode: Normal Grading Mode

MSF 622 Accident Prevent Mining **3 Credit hours**
A survey course which discusses why and how mining accidents occur, factors in successful safety programs and the recognition, evaluation, and control of accident causes.
Grade Mode: Normal Grading Mode

MSF 624 Mine Haulage & Transport **3 Credit hours**
A study of the operation of hoisting haulage equipment used in the mining industry.
Grade Mode: Normal Grading Mode

MSF 625 Philos Mine Safety Health **3 Credit hours**
An analysis of the philosophies of mine safety and health; application of these philosophies to actual mining situations.
Grade Mode: Normal Grading Mode

MSF 626 Safety Hlth Resrch Mining **3 Credit hours**
An analysis and study of selected works of national and international authors concerning mine safety and health.
Grade Mode: Normal Grading Mode

MSF 627 Health Hazards in Mining **3 Credit hours**
A broad spectrum approach to the mine health field which includes: the principles for recognition, evaluation and control of health hazards in mining.
Grade Mode: Normal Grading Mode

MSF 628 Man Machine Envirn Mining **3 Credit hours**
A study of the interactions of man, machines and the environment. The role of these interactions in causing or in preventing accidents.
Grade Mode: Normal Grading Mode

MSF 629 Prob Analysis Mine Safety **3 Credit hours**
A study of the rational process of problem solving decision making consultation with emphasis on realistic case studies.
Grade Mode: Normal Grading Mode

MSF 631 Mine Accident Investiga **3 Credit hours**
A study of the principles, techniques and procedures of investigations of mine accidents including attendance in court and report writing.
Grade Mode: Normal Grading Mode

MSF 635 Sampl Ind Vent Resp Equip **3 Credit hours**
Gas, vapor and particulate sampling-industrial ventilation for control of health hazards. Use of respiratory protective equipment to control health hazards.
Grade Mode: Normal Grading Mode

MSF 636 Tlv'S Sampling Analy Tech **3 Credit hours**
Threshold limit values and material safety data sheets. Hands-on experience in collecting industrial hygiene samples and subsequent laboratory analysis of the samples.
Grade Mode: Normal Grading Mode

MSF 637 Stress Impact Mining Safe **3 Credit hours**
A study on stress and its impact of safety and health in mining. Activities will be scheduled to enable the student to apply, in a work setting, some of the basic stress concepts.
Grade Mode: Normal Grading Mode

MSF 679 Problem Report **3 Credit hours**
Pre-req: MSF 510.
Grade Mode: Normal Grading Mode

MSF 681 Thesis **1-6 Credit hours**
Individual research on a specific problem of concern to the student and of significance to mine safety.
Attributes: Thesis
Grade Mode: Normal Grading Mode

MSF 690 Seminar **1-4 Credit hours**
Pre-req: MSF 510.
Grade Mode: Normal Grading Mode

MSF 691 Seminar **1-4 Credit hours**
Pre-req: MSF 510.
Grade Mode: Normal Grading Mode

MSF 692 Seminar **1-4 Credit hours**
Pre-req: MSF 510.
Grade Mode: Normal Grading Mode

Music (MUS)

MUS 502 Grad Music History Rev 2 **2 Credit hours**
Review of the history of Western music from 1750 to the present for entering graduate students who are deficient or wish to review their content knowledge.
Grade Mode: Normal Grading Mode

MUS 510 Intro to World Music **3 Credit hours**
This course will survey native musics of Africa, Asia, and the Americas as an aspect of culture. No formal background in music is required, as students will learn techniques for listening and articulating responses to music.
Grade Mode: Normal Grading Mode

MUS 511 Orff-Schulwerk **3 Credit hours**
Experiences in Orff-Schulwerk include poetry, rhymes, games, songs and dances in teaching music. Singing, movement, and instrument playing and the spoken word are the primary learning tools.
Grade Mode: Normal Grading Mode

MUS 512 Adv Jazz Ped & Cond **3 Credit hours**
Advanced study of methods and materials for jazz curriculum. Ensemble organization, rehearsal and conducting techniques. Selection of literature and equipment. Organization and presentation of public performances.
Grade Mode: Normal Grading Mode

MUS 513 Adv Jazz Styles / Analysis **2 Credit hours**
Advanced study of structural forms used in jazz. Detailed analysis of extended forms. Techniques for solo transcriptions. Harmonic practices in specific styles. In-depth study of significant jazz composers, performers, genres.
Grade Mode: Normal Grading Mode

MUS 532 Music Production **2 Credit hours**
Music production techniques for a variety of genres using a digital audio workstation.
Grade Mode: Normal Grading Mode

MUS 540 Graduate Theory Review **3 Credit hours**
Review of undergraduate music theory for entering graduate students who are deficient or wish to review music theory skills. Pre: Graduate standing or POI.
Grade Mode: Normal Grading Mode

MUS 550 Guitar Literature **2 Credit hours**
A survey of the literature for guitar from c. 1400 to the twentieth century.
Grade Mode: Normal Grading Mode

MUS 551 Guitar Pedagogy **2 Credit hours**
A survey of guitar pedagogy literature, and a practicum in teaching classical guitar.
Grade Mode: Normal Grading Mode

MUS 552 Cello Ensemble **1 Credit hour**
Cello students will rehearse and perform works from the major literature for cello ensemble.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 554 Flute Ensemble **1 Credit hour**
Performs a wide variety of musical styles from full choir to quartets, trios, etc. (PR: Audition)
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 566 Marching Thunder **1 Credit hour**
The Marching Thunder rehearses three times a week and performs a varied selection of music every home game as well as exhibitions around the country.
Attributes: No Textbook Required, Onsite Learning Experience
Grade Mode: Normal Grading Mode

MUS 568 Sixth Man Band **1 Credit hour**
The Marshall University Sixth Man Band performs at all home men's and women's basketball games. The band provides music to enhance the overall game experience for players and fans.
Attributes: No Textbook Required, Onsite Learning Experience
Grade Mode: Normal Grading Mode

MUS 570 Musical Prods Practicum **1 Credit hour**
Specialized practical training in aspects of performance production, preparation, and execution. May be repeated once. may be taken four times.
Grade Mode: Normal Grading Mode

MUS 572 Fife and Drum Corps **1 Credit hour**
Performing/marching/uniformed ensemble devoted to the music of the American Revolution and Chief Justice John Marshall. Instruments featured include fifes and drums. (PR: Permission or Audition Required)
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 574 Irish Ceili Band **1 Credit hour**
Ensemble devoted to the performance of Irish Ceili and dance music.
Grade Mode: Normal Grading Mode

MUS 580 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

MUS 581 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

MUS 582 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

MUS 583 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

MUS 585 Independent Study **1-4 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 586 Independent Study **1-4 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 587 Independent Study **1-4 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 588 Independent Study **1-4 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 601 Orchestral Literature **3 Credit hours**
A survey of orchestra literature beginning with the 16th century; the Mannheim composers, Viennese classics, the Romantists, the national schools, and late European, South American and American developments.
Grade Mode: Normal Grading Mode

MUS 602 Band/Wind Ens Lit **3 Credit hours**
A survey of major works originally written for wind band, major transcriptions, and works in all grade levels for school bands.
Grade Mode: Normal Grading Mode

MUS 604A Keyboard Literature **2 Credit hours**
A survey ofkeyboard literature from the 14th to the 20th century. Emphasis is on stylistic developments and formal procedures.
Grade Mode: Normal Grading Mode

MUS 604B Chamber Music Literature **2 Credit hours**
A survey of chamber music literature from the Baroque Era to the 20th century. Analysis of form emphasized in the study of string quartet trio, quintet, and various other combinations.
Grade Mode: Normal Grading Mode

MUS 604C Song Literature **2 Credit hours**
The song literature of Western Europe and America, also including contemporary material from other countries; interpretation, song study, program building, languages, and interpretation of accompaniments. For singers and accompanists.
Grade Mode: Normal Grading Mode

MUS 604D Choral Literature **2 Credit hours**
A comprehensive study of the forms and styles of Choral Composition from Renaissance to present day.
Grade Mode: Normal Grading Mode

MUS 604F Percussion Lit **2 Credit hours**
A survey of instructional and performance literature for solo brass instruments and brass ensembles.
Grade Mode: Normal Grading Mode

MUS 604G String Literature **2 Credit hours**
A survey of instructional and performance literature for solo violin, viola, cello, bass, guitar, and string ensembles.
Grade Mode: Normal Grading Mode

MUS 604H Woodwind Literature **2 Credit hours**
A survey of instructional and performance literature for flute, oboe, clarinet, bassoon and/or saxophone in both solo and ensemble settings.
Grade Mode: Normal Grading Mode

MUS 604I Brass Literature **2 Credit hours**
A survey of instructional and performance literature for solo brass instruments and brass ensembles.
Grade Mode: Normal Grading Mode

MUS 610 Hist and Phil of Music Ed **3 Credit hours**
Basic concepts of music education and their application to problems of music teaching, supervision and administration.
Grade Mode: Normal Grading Mode

MUS 611 Music Psy and Lrng Theory **3 Credit hours**
Vibrational stimuli, resultant reactions, and factors involved in development of musical skills, as well as measures of aptitude and achievement.
Grade Mode: Normal Grading Mode

MUS 612 Projects & Problems Music **1-3 Credit hours**
Detailed investigation of problems and/or projects in the student's area of specialization.
Grade Mode: Normal Grading Mode

MUS 614 Sem in Teach Mus Appreciation **1 Credit hour**
Methods and materials for teaching music appreciation. Required of all graduate assistants teaching MUS 142 Music Appreciation. May be repeated for credit.
Grade Mode: Normal Grading Mode

MUS 615 Adv Tech for Marching Band **3 Credit hours**
The marching band. The marching and musical problems which are encountered in training and operating a band for football games and other events involving marching and playing.
Grade Mode: Normal Grading Mode

MUS 616 Mus Curr and Admin **3 Credit hours**
Survey of recent developments in public school curricula and their effect on music offerings. Preparation of course and curricular content.
Grade Mode: Normal Grading Mode

MUS 617 Seminar Music Education **3 Credit hours**
Specialized study of advanced concepts and current problems in music education.
Grade Mode: Normal Grading Mode

MUS 619A Seminar in Vocal Pedagogy **2 Credit hours**
A study of the techniques of singing and their application to private and class voice instruction. Emphasis placed upon diagnosis of problems, and teaching under supervision.
Grade Mode: Normal Grading Mode

MUS 619B Seminar in Piano Pedagogy **2 Credit hours**
An analytical survey of developments in piano techniques and pedagogical procedures with open discussions on various facets of piano teaching.
Grade Mode: Normal Grading Mode

MUS 620A Instrumental Tech and Material **3 Credit hours**
Problems of the instrumental teacher at all levels; practical work in the techniques of handling beginning classes and ensembles of all types.
Grade Mode: Normal Grading Mode

MUS 620B Choral Tech and Materials **3 Credit hours**
A practicum approach to problems of choral techniques and materials with special emphasis placed upon high school and junior high school levels.
Grade Mode: Normal Grading Mode

MUS 620C Elem Tech and Materials **3 Credit hours**
A practical approach to techniques and materials in elementary music examining a variety of learning modalities.
Grade Mode: Normal Grading Mode

MUS 621 Music Research Methods **3 Credit hours**
Introduction to music research with emphasis on investigative methods and applications, procedures, and bibliography. Concentration on expository writing style and format.
Grade Mode: Normal Grading Mode

MUS 622 Styles and Analysis **3 Credit hours**
Identification of structural principles and compositional idioms characteristic of historical eras and representative composers from the Ars Antiqua to the present day.
Grade Mode: Normal Grading Mode

MUS 629 Choral Conduct and Interp **3 Credit hours**
Advanced study in literature, conducting techniques, score preparation and analysis, interpretation, rehearsal planning and execution for the choral ensemble. May be repeated for credit three times.
Grade Mode: Normal Grading Mode

MUS 630 Instru Conduct & Interp **3 Credit hours**
Advanced study in literature, conducting techniques, score preparation and analysis, interpretation, rehearsal planning and execution for the instrumental ensemble. May be repeated for credit three times.
Grade Mode: Normal Grading Mode

MUS 631 Adv Jazz Improv **2 Credit hours**
Advanced skills, techniques, and performance practices for jazz improvisation. Continued study of bebop, post-bebop, extended forms, contemporary, and non-Western styles and improvisation techniques. Transcription and performance of representative literature.
Grade Mode: Normal Grading Mode

MUS 640A Music Theory **3 Credit hours**
Analytical and writing techniques of 19th and 20th music.
Grade Mode: Normal Grading Mode

MUS 641 Advanced Counterpoint **3 Credit hours**
An intensive study of contrapuntal techniques, styles, and forms through composition and analysis.
Grade Mode: Normal Grading Mode

MUS 646 Advanced Choral Arranging **3 Credit hours**
Techniques of choral composition and arranging with emphasis on the mixed choir. Arrangements and original works sung by choral groups and conducted by students.
Grade Mode: Normal Grading Mode

MUS 647 Advanced Band Arranging **3 Credit hours**
A study of the scoring for modern concert and marching bands , the transcription of works for other media as well as original works; analysis of band literature, harmonic and formal.
Grade Mode: Normal Grading Mode

MUS 648 Advanced Orchestration **3 Credit hours**
Scoring compositions from other media for modern orchestras of various sizes.
Grade Mode: Normal Grading Mode

MUS 649 Advanced Jazz Arranging & Comp **3 Credit hours**
Comprehensive techniques and analysis of jazz masterworks applied to composing and arranging in various instrumental and vocal jazz styles. Techniques of orchestration and composition for both large and small ensembles.
Grade Mode: Normal Grading Mode

MUS 650 Music of the Middle Ages **3 Credit hours**
Ancient Greek musical theory, Gregorian chant and its outgrowths, secular monophony, sacred and secular polyphony and its development through the fourteenth century.
Grade Mode: Normal Grading Mode

MUS 651 Music of the Renaissance **3 Credit hours**
The historical and sylistic study of music of the Renaissance, ca 1400 to ca 1600.
Grade Mode: Normal Grading Mode

MUS 652 Music of the Baroque Era **3 Credit hours**
The historical and stylistic study of music of the Baroque Era, ca 1600 to ca 1750.
Grade Mode: Normal Grading Mode

MUS 653 Music in Classical Era **3 Credit hours**
The historical and stylistic study of music of the Classical Era, ca 1720 to ca. 1820.
Grade Mode: Normal Grading Mode

MUS 654 Music in the Romantic Era **3 Credit hours**
The historical and stylistic study of music of the Classical Era, ca 1800 to ca. 1900
Grade Mode: Normal Grading Mode

MUS 655 Music ca 1900 to the Present **3 Credit hours**
Musical developments since Wagner: Debussy, Stravinsky, Mahler, Strauss, Schoenberg, Bartok and their contemporaries . Developments in electronic and aleotoric music, and new notations.
Grade Mode: Normal Grading Mode

MUS 656 Sem Performance Practice **2 Credit hours**
Students will prepare and perform music from a selected style period using editorial methods and research as appropriate to the chosen period. May be repeated for credit.
Grade Mode: Normal Grading Mode

MUS 657 Jazz History **3 Credit hours**
Comprehensive study of the development of jazz and related forms from its inception to recent trends. Relationships between aesthetic, technological, and social changes and their effects. Study of historic recordings.
Grade Mode: Normal Grading Mode

MUS 658 Technology in Music Edu **3 Credit hours**
An intensive exploration of technological resources specific to music education and instruction on effective strategies for implementation in a classroom setting.
Grade Mode: Normal Grading Mode

MUS 670 Cur Trends in Mus Ed PreK-5 **3 Credit hours**
A comprehensive survey of available materials in singing, reading, listening, rhythm, and creating program of school music for the elementary grades; use of such materials in the methodology of teaching.
Grade Mode: Normal Grading Mode

MUS 675 Music in Erly Child (Birth-5) **3 Credit hours**
Ways of using creative activity in the music program, methods of presenting creative song writing, rhythms, instrument construction, instrumental expressing, dramatization, program building.
Grade Mode: Normal Grading Mode

MUS 679 Critical Review in Music **1-3 Credit hours**
Exploration of problems and solutions related to various methodologies in music.
Grade Mode: Normal Grading Mode

MUS 681 Thesis **1-6 Credit hours**
Attributes: No Textbook Required, Thesis
Grade Mode: Normal Grading Mode

Music Ensembles (MUSE)

MUSE 501 Chamber Choir **1 Credit hour**
Advanced, auditioned choral ensemble open to all university students. Repertoire performed locally and on tour includes great chamber literature of the past five centuries. Three rehearsals per week. Course is repeatable for credit. (PR: Audition with Director)
Grade Mode: Normal Grading Mode

MUSE 502 University Chorus **1 Credit hour**
A mixed chorus of 60-90 singers open to all university students without audition. Public performances of a variety of music are given each semester. Three rehearsals per week.
Grade Mode: Normal Grading Mode

MUSE 503 Choral Union **1 Credit hour**
Large choral ensemble available to university and regional singers without audition. May be repeated for credit.
Grade Mode: Normal Grading Mode

MUSE 506 Opera Workshop **1 Credit hour**
Preparation and performance of opera scenes and full operas. Membership open to students as singers, pianists, and technical personnel. Roles assigned by audition. Two rehearsals per week plus private coaching. (PR: Audition with Director)
Grade Mode: Normal Grading Mode

MUSE 508 3rd Avenue **1 Credit hour**
A mixed a capella ensemble dedicated to the performance of a variety of popular, jazz, and contemporary styles. Open to all students regardless of major. PR: Permission.
Grade Mode: Normal Grading Mode

MUSE 511 Orchestra **1 Credit hour**
The Marshall Orchestra is open to all university students, faculty, and interested musicians in the community with permission of the instructor. Concerts are presented each semester. (PR: Audition with Director)
Grade Mode: Normal Grading Mode

MUSE 520 Wind Symphony **1 Credit hour**
A select, auditioned group of wind and percussion players who study and perform original and transcribed works for wind orchestra and works for small mixed chamber ensembles. (PR: Audition)
Grade Mode: Normal Grading Mode

MUSE 521 Symphonic Band **1 Credit hour**
The Marshall University Symphonic Band rehearses twice a week and presents two concerts each semester. Symphonic Band performs a varied repertoire of music from wind band staples to contemporary works.
Grade Mode: Normal Grading Mode

MUSE 530 Jazz Ensemble **1 Credit hour**
Study and performance of traditional and progressive jazz repertoire in a big band ensemble. Open to all university students by audition. May be repeated for credit.
Grade Mode: Normal Grading Mode

MUSE 533 Jazz Improv Ensemble **1 Credit hour**
Ensemble improvisation from duet to tentet. Emphasis on music sightreading, recognition and application of chord/scale relationships in a performance setting. Ensemble playing skills. May be repeated for credit.
Grade Mode: Normal Grading Mode

MUSE 540 Brass Band of the TriState **1 Credit hour**
A community/university ensemble modeled after the British-style brass band. May be repeated for credit.
Grade Mode: Normal Grading Mode

MUSE 543 Contemporary Music Ensemble **1 Credit hour**
Performance of contemporary music in various media.
Grade Mode: Normal Grading Mode

MUSE 544 Collegium Musicum **1 Credit hour**
An ensemble for the performance of Medieval, Renaissance, and Baroque music, with special attention to performance practices and instrumental and vocal techniques. May be repeated for credit.
Grade Mode: Normal Grading Mode

MUSE 546 African Drum & Dance Ensemble **1 Credit hour**
Ensemble devoted to the performance fo traditional African drumming and dance. May be repeated for credit.
Grade Mode: Normal Grading Mode

MUSE 552 Woodwind Ensemble **1 Credit hour**
Chamber ensemble experience for woodwind players. May be repeated for credit.
Grade Mode: Normal Grading Mode

MUSE 555 Brass Ensemble **1 Credit hour**
Chamber ensemble experience for brass players. May be repeated for credit.
Grade Mode: Normal Grading Mode

MUSE 558 Percussion Ensemble **1 Credit hour**
An ensemble dedicated to performing a wide variety of musical styles on instruments in the percussion family. May be repeated for credit.
Grade Mode: Normal Grading Mode

MUSE 561 String Ensemble **1 Credit hour**
Chamber ensemble experience for string players. May be repeated for credit.
Grade Mode: Normal Grading Mode

MUSE 564 Piano Ensemble **1 Credit hour**
Study and perform a wide variety of musical styles for multiple pianists on 1-5 pianos. Audition with instructor required. May be repeated for credit.
Grade Mode: Normal Grading Mode

MUSE 567 Guitar Ensemble **1 Credit hour**
An ensemble for guitar majors and qualified guitar elective students; focus on sight reading skills, ensemble accuracy and position playing. May be repeated for credit.
Grade Mode: Normal Grading Mode

Music Program (MUSP)

MUSP 580 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

MUSP 581 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

MUSP 582 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

MUSP 583 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

MUSP 584 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

MUSP 585 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

MUSP 586 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

MUSP 587 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

MUSP 588 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

MUSP 591 Workshop **1-4 Credit hours**
Grade Mode: Normal Grading Mode

MUSP 592 Workshop **1-4 Credit hours**
Grade Mode: Normal Grading Mode

MUSP 593 Workshop **1-4 Credit hours**
Grade Mode: Normal Grading Mode

MUSP 594 Workshop **1-4 Credit hours**
Grade Mode: Normal Grading Mode

Nat Resources & Environment (NRE)

NRE 500 Soil Fertility/Plant Nutrition **4 Credit hours**
This course will examine properties of soil fertility, its relationship to plan nutrition, and practices in nutrient management and fertilizer application.
Grade Mode: Normal Grading Mode

NRE 502 Sustainable Agriculture **3 Credit hours**
This course will examine the principles of sustainable agriculture and its relationship with natural resources while identifying challenges to agricultural sustainability and frontiers in the field.
Grade Mode: Normal Grading Mode

NRE 525 Water Policy & Regulations **3 Credit hours**
Examination of how aquatic resources are protected for humans and species of concern by current regulatory framework.
Grade Mode: Normal Grading Mode

NRE 531 Aqua Toxicology **4 Credit hours**
This course will introduce students to the principles of aquatic toxicology including regulations driving biological criteria, development of laboratory toxicity testing and test methodology.
Grade Mode: Normal Grading Mode

NRE 535 Biomonitoring **4 Credit hours**
A foundation of environmental assessment is the utilization of aquatic communities to monitor biota/habitat/water quality.
Grade Mode: Normal Grading Mode

NRE 540 Seminar I **1 Credit hour**
Introduction to graduate research and individual topics, development of literature research skills, reading and discussion of keystone papers, support for research project prospectus development and beginning the literature portfolio for the thesis.
Grade Mode: Normal Grading Mode

NRE 541 Fisheries Management **4 Credit hours**
The history, regulations, theory, and science behind the management/mismanagement of inland fisheries.
Grade Mode: Normal Grading Mode

NRE 545 Sustainable Tropical Ecology **3 Credit hours**
This course is designed to introduce the cultural components, human impacts, basic ecology, habitats types, biodiversity, plant communities, life histories, and conservation of tropical ecosystems.
Pre-req: NRE 546L (may be taken concurrently) or NRE 547L (may be taken concurrently).
Concurrent PR: NRE 546L or NRE 547L
Grade Mode: Normal Grading Mode

NRE 546L Sustain Tropical Travel Lab **2 Credit hours**
Laboratory companion course to NRE 545. Investigation of aquatic and terrestrial biota in the tropical environment and examination threats to tropical ecosystems. International trip, with an extra fee, required.
Pre-req: NRE 545 (may be taken concurrently).
Concurrent PR: NRE 545
Grade Mode: Normal Grading Mode

NRE 547L Sustainable Tropical Lab **1 Credit hour**
Laboratory companion course to NRE 445. Investigation of aquatic and terrestrial biota in the tropical environment and examination threats to tropical ecosystems.
Pre-req: NRE 545 (may be taken concurrently).
Concurrent PR: NRE 545
Grade Mode: Normal Grading Mode

NRE 550 Aquatic Invertebrates **4 Credit hours**
A survey course of the freshwater invertebrates found in the eastern United States. This course focuses on the taxonomy, life histories, and ecology of crustaceans, mollusks, and insects.
Grade Mode: Normal Grading Mode

NRE 560 Seminar II **1 Credit hour**
This course focus is discussion of fundamental and cornerstone literature from the field of nature resources. Emphasis will be given to research methods and individual student project development.
Grade Mode: Normal Grading Mode

NRE 580 Special Topics **1-4 Credit hours**
Study of an advanced topic not normally covered in other courses.
Grade Mode: Normal Grading Mode

NRE 581 Special Topics **1-4 Credit hours**
Study of an advanced topic not normally covered in other courses.
Grade Mode: Normal Grading Mode

NRE 582 Special Topics **1-4 Credit hours**
Study of an advanced topic not normally covered in other courses.
Grade Mode: Normal Grading Mode

NRE 583 Special Topics **1-4 Credit hours**
Study of an advanced topic not normally covered in other courses.
Grade Mode: Normal Grading Mode

NRE 585 Independent Study **1-4 Credit hours**
Independent Study (1-4 hrs)
Grade Mode: Normal Grading Mode

NRE 586 Independent Study **1-4 Credit hours**
Independent Study (1-4 hrs)
Grade Mode: Normal Grading Mode

NRE 587 Independent Study **1-4 Credit hours**
Independent Study (1-4 hrs)
Grade Mode: Normal Grading Mode

NRE 588 Independent Study **1-4 Credit hours**
Independent Study (1-4 hrs)
Grade Mode: Normal Grading Mode

NRE 604 Compost Science & Operations **4 Credit hours**
An advanced exploration of composting systems, evaluation methods, sustainable management strategies, compost quality characteristics and analysis, and community, environmental, and operational aspects of compost production and utilization.
Grade Mode: Normal Grading Mode

NRE 623 Adv Pathophysiology **3 Credit hours**
This course provides advanced knowledge of body systems altered by disease and/or injury across the life span. In addition, studying the pathophysiology of body systems will include exploring culture and ethnicity.
Pre-req: NUR 620 with a minimum grade of C.
Grade Mode: Normal Grading Mode

NRE 625 Advanced Physical Assessment **3 Credit hours**
Introduction to knowledge and skills essential for comprehensive health assessments, analysis of data, diagnoses, therapeutic plans, and health promotion and maintenance activities.
Grade Mode: Normal Grading Mode

NRE 640 Seminar III **1 Credit hour**
The course utilizes relevant literature from the Natural Sciences to investigate data analysis and presentation methods. Topics include statistical methods selection, graphical presentations, journal selection and interpretation of data outcomes.
Grade Mode: Normal Grading Mode

NRE 660 Seminar IV **1 Credit hour**
The course focuses on transition to professional opportunities beyond graduate school. Discussions will include scientific publication and public presentation in multiple venues and formats, expectations of various career options and applications of science in decision making.
Grade Mode: Normal Grading Mode

NRE 670 Independent Study **1-4 Credit hours**
Independent Study
Grade Mode: Normal Grading Mode

NRE 671 Independent Study **1-4 Credit hours**
Independent Study
Grade Mode: Normal Grading Mode

NRE 672 Independent Study **1-4 Credit hours**
Independent Study
Grade Mode: Normal Grading Mode

NRE 673 Independent Study **1-4 Credit hours**
Independent Study
Grade Mode: Normal Grading Mode

NRE 680 Special Topics **1-4 Credit hours**
Study of an advanced topic not normally covered in other courses.
Grade Mode: Normal Grading Mode

NRE 681 Thesis **1-8 Credit hours**
Thesis
Grade Mode: Normal Grading Mode

Natural Res Rec Mgt (NRRM)

NRRM 500 Leisure & Aging **3 Credit hours**
A course presenting an overview of leisure services for the elderly. Topics include research results, theories, and modern day trends. A wellness model will be included.
Grade Mode: Normal Grading Mode

NRRM 501 Admin Parks & Recreation **3 Credit hours**
Considers administrative practices and various organizational structures. Includes administrative process, supervision of personnel, budgeting, and public relations. Requires conducting a case study of an existing park and recreation department, including fiscal and personnel policies and an analysis of the effectiveness of such policies.
Grade Mode: Normal Grading Mode

NRRM 502 Assess & Eval Rec Service **3 Credit hours**
Theoretical & practical approach to evaluation as applied to recreation & leisure services. Emphasis will be upon developing sound assessment & evaluation methodology applicable to recreation & leisure studies (PR: NRRM 101)
Grade Mode: Normal Grading Mode

NRRM 510 Rec Area Facility Maint **4 Credit hours**
A study of the knowledge and skills necessary to supervise and administer the general development and maintenance of park and recreation areas and facilities.
Grade Mode: Normal Grading Mode

NRRM 511 Rec Areas & Facilities **3 Credit hours**
Basic considerations in the planning and design of recreation and sport areas, facilities, and structures including associated amenities.
Grade Mode: Normal Grading Mode

NRRM 521 Rec Special Populations **3 Credit hours**
Study of the use of recreation activities with disabled persons. Techniques in programming and adaptation to meet the leisure needs of special groups in today's society. In association with a therapeutic recreation institution, student must develop a new/revised procedure for providing recreation programs at that institution.
Grade Mode: Normal Grading Mode

NRRM 522 Ther Rec Institu Settings **3 Credit hours**
Designed to acquaint students with the role and practice of therapeutic recreation in treatment centers. Requires preparation of an annotated bibliography of current literature in this field and conducting of a case study of therapeutic recreation programmatic offerings in such an institution.
Grade Mode: Normal Grading Mode

NRRM 530 Environmental Interpreta **4 Credit hours**
Principles and techniques of environmental interpretation as practiced in federal, state, and private agencies. Students must develop and interpretative brochure and evaluate both a facility and a program. 3 lec-2 lab.
Grade Mode: Normal Grading Mode

NRRM 531 Forest Recreation Plan **4 Credit hours**
Utilizes the functional planning approach based upon demand and site capability analysis. Student conducts an in-depth recreation capability analysis in an existing park facility, presents this in written form; reviews the current literature on forest recreation development, and makes a final oral report. 3 lec-2 lab.
Grade Mode: Normal Grading Mode

NRRM 542 Op Mgt OHV Trail Systems **3 Credit hours**
Diagnosis of OHV problems and development of solutions based upon recognized trail standards and typical resource impacts.
Grade Mode: Normal Grading Mode

NRRM 550 Intro OHV Recreation **3 Credit hours**
Grade Mode: Normal Grading Mode

NRRM 551 Plan Design OHV Trails **3 Credit hours**
Grade Mode: Normal Grading Mode

NRRM 552 Construction of OHV Trails **3 Credit hours**
A course designed to instruct students in contemporary methods and techniques of construction OHV trails and related facilities.
Grade Mode: Normal Grading Mode

NRRM 553 Op Mgt OHV Trail Systems **3 Credit hours**
Grade Mode: Normal Grading Mode

NRRM 580 Special Topics **1-4 Credit hours**
Study of an advanced topic not normally covered in other courses. 3 lec-2 lab.
Grade Mode: Normal Grading Mode

NRRM 581 Special Topics **1-4 Credit hours**
Study of an advanced topic not normally covered in other courses. 3 lec-2 lab.
Grade Mode: Normal Grading Mode

NRRM 582 Special Topics **1-4 Credit hours**
Study of an advanced topic not normally covered in other courses. 3 lec-2 lab.
Grade Mode: Normal Grading Mode

NRRM 583 Special Topics **1-4 Credit hours**
Study of an advanced topic not normally covered in other courses. 3 lec-2 lab.
Grade Mode: Normal Grading Mode

NRRM 585 Independent Study **1-4 Credit hours**
Requires conducting of individual survey/research projects beyond the requirements for undergraduates. Such projects will be individualized to meet the needs of students while accomplishing some practical need in the field.
Grade Mode: Normal Grading Mode

NRRM 586 Independent Study **1-4 Credit hours**
Requires conducting of individual survey/research projects beyond the requirements for undergraduates. Such projects will be individualized to meet the needs of students while accomplishing some practical need in the field.
Grade Mode: Normal Grading Mode

NRRM 587 Independent Study **1-4 Credit hours**
Requires conducting of individual survey/research projects beyond the requirement for undergraduates. Such projects will be individualized to meet the needs of students while accomplishing some practical need in the field.
Grade Mode: Normal Grading Mode

NRRM 588 Independent Study **1-4 Credit hours**
Requires conducting of individual survey/research projects beyond the requirements for undergraduates. Such projects will be individualized to meet the need of students while accomplishing some practical need in the field.
Grade Mode: Normal Grading Mode

Neurology (NEU)

NEU 742 Neurology Clerkship **1-18 Credit hours**
Grade Mode: Pass/Fail Grading Mode

NEU 803 Neurosurgery **1-18 Credit hours**
Grade Mode: Pass/Fail Grading Mode

NEU 813 Pediatric Neurology **1-18 Credit hours**
Grade Mode: Pass/Fail Grading Mode

NEU 816 Neurolog/Neurosurgery Research **4-6 Credit hours**
Grade Mode: Pass/Fail Grading Mode

NEU 827 Neurology Sub Internship **1-18 Credit hours**
This course is a 4th year rotation with the goal of providing students with an in-depth internship in the management of acute neurologic conditions requiring hospitalization.
Grade Mode: Pass/Fail Grading Mode

NEU 829 Clinical Neurology **1-18 Credit hours**
Grade Mode: Pass/Fail Grading Mode

NEU 858 In-State Externship in Neuro **1-18 Credit hours**
Clinical course to allow students to complete clinical training at approved sites within the State of West Virginia that is no a MUSOM site.
Grade Mode: Pass/Fail Grading Mode

NEU 868 Clinical Neurology Externship **1-12 Credit hours**
Grade Mode: Pass/Fail Grading Mode

Nursing (NUR)

NUR 580 Special Topics **1-4 Credit hours**
Program of study not normally covered in other courses. Topics vary from semester to semester.
Grade Mode: Normal Grading Mode

NUR 581 Special Topics **1-4 Credit hours**
Program of study not normally covered in other courses. Topics vary from semester to semester.
Grade Mode: Normal Grading Mode

NUR 582 Special Topics **1-4 Credit hours**
Program of study not normally covered in other courses. Topics vary from semester to semester.
Grade Mode: Normal Grading Mode

NUR 583 Special Topics **1-4 Credit hours**
Program of study not normally covered in other courses. Topics vary from semester to semester.
Grade Mode: Normal Grading Mode

NUR 584 Special Topics **1-4 Credit hours**
Program of study not normally covered in other courses. Topics vary from semester to semester.
Grade Mode: Normal Grading Mode

NUR 585 Independent Study **1-4 Credit hours**
Courses taught by tutorials; directed independent readings or research; problem reports, and other activities designed to fill needs of individual students.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

NUR 586 Independent Study **1-4 Credit hours**
Courses taught by tutorials; directed independent readings or research; problem reports, and other activities designed to fill needs of individual students.
Grade Mode: Normal Grading Mode

NUR 587 Independent Study **1-4 Credit hours**
Courses taught by tutorials; directed independent readings or research; problem reports, and other activities designed to fill needs of individual students.
Grade Mode: Normal Grading Mode

NUR 588 Independent Study **1-4 Credit hours**
Courses taught by tutorials; directed independent readings or research; problem reports, and other activities designed to fill needs of individual students.
Grade Mode: Normal Grading Mode

NUR 602 Theoretical Found in NUR **3 Credit hours**
Provides students with opportunity to relate a philosophical and theoretical base to concepts and processes inherent in nursing. Emphasis is on analysis of nursing theories and their relationship and application to research and practice.
Grade Mode: Normal Grading Mode

NUR 604 Leadership in Nursing **3 Credit hours**
Explores the theoretical basis for effective leadership in nursing. Emphasis is placed on analysis of leadership, characteristics and behaviors of leaders, and the role of the nurse leader.
Grade Mode: Normal Grading Mode

NUR 606 Advanced Nursing Research **3 Credit hours**
Provides the opportunity to develop a research approach to nursing situations. Focus is upon the development of a research proposal. (PR or CR: NUR 602)
Pre-req: NUR 602 with a minimum grade of C.
Grade Mode: Normal Grading Mode

NUR 608 Issues in Health Care **3 Credit hours**
Explores and evaluates concerns germane to contemporary nursing. Focus is upon the role of nursing in addressing health issues affected by social, economical, political and technological forces.
Grade Mode: Normal Grading Mode

NUR 610 Nur. Patho, Assess, and Pharm **3 Credit hours**
This course in advanced physiology/pathophysiology, advanced physical assessment, and pharmacology r/t prevalent disease processes across the life span. Course integrates core concepts at advanced level for nursing clinical practice.
Grade Mode: Normal Grading Mode

NUR 616 Curr Dev in Nursing **3 Credit hours**
Introduces the various components in the curriculum development process. Emphasis is on philosophy, objectives, curriculum designs and program evaluation. Factors influencing curriculum development implementing evaluation and nursing curriculum patterns are examined. (NUR 602)
Grade Mode: Normal Grading Mode

NUR 618 Teaching in Nursing **3 Credit hours**
Investigates the responsibilities of the educator in contemporary nursing. Emphasis is upon the instructional process. Practicum allows student to practice the role of the teacher in a variety of educational experiences. (PR: NUR 616)
Grade Mode: Normal Grading Mode

NUR 619 Practicum: Teach Nursing **6 Credit hours**
Guided experience in didactic teaching of nursing clinical teaching,supervision and evaluation of students. PRE: NUR 618
Pre-req: NUR 618 (may be taken concurrently) with a minimum grade of C and NUR 606 with a minimum grade of C.
Concurrent PR: NUR 618
Grade Mode: Normal Grading Mode

NUR 620 Adv Pathophysiology I **2 Credit hours**
Advanced knowledge of body systems altered by disease and/or injury. The body systems or diseases studied will include: cell, cardiovascular, pulmonary, digestive, musculoskeletal, neurologic and reproductive across the lifespan.
Grade Mode: Normal Grading Mode

NUR 621 Adv Pathophysiology II **2 Credit hours**
Advanced knowledge of body systems altered by disease and/or injury including: hematologic, genes, immunity, cancer, endocrine, renal, urologic, and integumentary across the lifespan.
Pre-req: NUR 620 with a minimum grade of C.
Grade Mode: Normal Grading Mode

NUR 622 Advanced Physical Assessment **5 Credit hours**
Introduction to knowledge and skills essential for comprehensive health assessments, analysis of data, formulation of diagnoses, development of the therapeutic plans and implementation of health promotion and maintenance activities. Practicum included. (PR or CR: NUR 602)
Grade Mode: Normal Grading Mode

NUR 623 Adv Pathophysiology **3 Credit hours**
This course provides advanced knowledge of body systems altered by disease and/or injury across the life span. In addition, studying the pathophysiology of body systems will include exploring culture and ethnicity.
Grade Mode: Normal Grading Mode

NUR 624 Adv Family Nursing Practice I **7 Credit hours**
Provides advanced knowledge of common and acute self-limiting health problems of individuals and families of various age groups. Includes pathology and therapeutic modalities related to specific health problems. (240 clinical hrs. minimum) Practicum included. (PR: NUR 622 CR: NUR 606)
Pre-req: NUR 622 with a minimum grade of C.
Grade Mode: Normal Grading Mode

NUR 625 Advanced Physical Assessment **3 Credit hours**
Introduction to knowledge and skills essential for comprehensive health assessments, analysis of data, diagnoses, therapeutic plans, and health promotion and maintenance activities.
Grade Mode: Normal Grading Mode

NUR 626 Adv Family Nursing III **5 Credit hours**
Provides advanced knowledge of chronic illness and the long-term management of health care problems. Includes pathology and therapeutic modalities related to management of chronic health problems. (180 clinical hrs. minimum) Practicum included. (PR: NUR 624)
Pre-req: NUR 624.
Grade Mode: Normal Grading Mode

NUR 630 Advanced Pharmacology **4 Credit hours**
The course will prepare students to apply the clinical science of medications, recognize beneficial and adverse effects, and create an individualized pharmacotherapeutic regimen according to clinical guidelines or clinical trials.
Grade Mode: Normal Grading Mode

NUR 642 Org Dynamics in Nursing **3 Credit hours**
Focus is upon the organizational dynamics as they apply to the nurse manager in health care delivery systems.
Pre-req: NUR 604 (may be taken concurrently).
Concurrent PR: NUR 604
Grade Mode: Normal Grading Mode

NUR 644 Financial Stra In Nur Adm **3 Credit hours**
Examines the financial management role of the nurse administrator in relation to economic, political, and societal trends.
Pre-req: NUR 606 (may be taken concurrently) with a minimum grade of C.
Concurrent PR: NUR 606
Grade Mode: Normal Grading Mode

NUR 646 Nur Manage Health Care I **6 Credit hours**
Focuses on the application of theories and principles related to nursing management. Practicum included. (NUR 642, NUR 644).
Pre-req: NUR 606 and NUR 642 and NUR 644.
Grade Mode: Normal Grading Mode

NUR 648 Nur Manage Health Care II **6 Credit hours**
Practicum focuses upon the application of the role components of the nurse manager in selected health care settings. (PR: 646).
Pre-req: NUR 646 with a minimum grade of C.
Grade Mode: Normal Grading Mode

NUR 663 Advanced Pharmacology I **2 Credit hours**
Focus on the science of drugs and the application to patient care across the lifespan. Principles of pharmacology covered are: infectious diseases, fluids and electrolytes, peripheral nervous and cardiovascular systems.
Grade Mode: Normal Grading Mode

NUR 664 Advanced Pharmacology II **2 Credit hours**
Focus is on the science of drugs and application to patient care across the lifespan. Drugs affecting the blood, respiratory, gastrointestinal, central nervous, endocrine system, anti-inflammatory, antiallergic and immunologic drugs.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

NUR 681 Thesis **1-6 Credit hours**
Individual research in a selected area of nursing under direction of a faculty member.
Pre-req: NUR 606.
Attributes: Thesis
Grade Mode: Normal Grading Mode

NUR 695 Internship: Adv Family Nur **7 Credit hours**
The focus is upon the role of the family nurse practitioner using the case management approach in a supervised contractual work study arrangement with a health care agency. (360 clinical hrs. minimum) (PR: NUR 626)
Pre-req: NUR 626 with a minimum grade of C.
Grade Mode: Normal Grading Mode

NUR 702 Hlth Prom and Pop Hlth **3 Credit hours**
Provides theoretical foundation and a framework for examining health promotion, population health, health equity and the implementation of community based interventions. Uses current data to improve outcomes.
Grade Mode: Normal Grading Mode

NUR 704 Leadership Role **3 Credit hours**
Focuses on theories and principles of communication, leadership, interprofessional collaboration, change management and systems thinking to improve outcomes.
Pre-req: NUR 700 with a minimum grade of C.
Grade Mode: Normal Grading Mode

NUR 706 Health Systems Policy **3 Credit hours**
Provide comprehensive systems thinking approach to include policy, economic, and financial principles to promote high quality health care delivery to individual, populations and communitites.
Pre-req: NUR 700 with a minimum grade of C.
Grade Mode: Normal Grading Mode

NUR 708 Information Systems **3 Credit hours**
Focuses on nursing informatics knowledge and skills needed to assess, evaluate, and optimize health information systems/technology to support communication, delivery of high-quality care, and improvement of population health.
Pre-req: NUR 700 with a minimum grade of C.
Grade Mode: Normal Grading Mode

NUR 710 Quality Improvement **3 Credit hours**
Explores quality improvement methods, tools, and strategies. Focuses on measurement and accountability in health care delivery systems through examination and analysis of data, structure, processes, and outcomes.
Grade Mode: Normal Grading Mode

NUR 712 Biostats and Epidemiology **3 Credit hours**
Application and interpretation of statistical and epidemiological techniques appropriate to health sciences. Examines principles of statistical inference and their application to the analysis and interpretations for answering practice questions.
Pre-req: NUR 710 with a minimum grade of C.
Grade Mode: Normal Grading Mode

NUR 714 Evidence Based Practice **3 Credit hours**
Philosophical, conceptual, and theoretical perspectives as well as research methods are examined. Explore the application knowledge to inform, evaluate and translate evidence for practice.
Pre-req: NUR 710 with a minimum grade of C and NUR 712 with a minimum grade of C.
Grade Mode: Normal Grading Mode

NUR 720 Adv Pharm Nurse Anes I **4 Credit hours**
Study of general principles of pharmacology, pharmacokinetic, pharmacodynamic, and biochemisty concepts, as they relate to specific anesthetic and adjunct drugs. It will also emphasize integration of this information into clinical areas regarding anesthetic uses, dosages, and side effects of these classes of drugs.
Grade Mode: Normal Grading Mode

NUR 721 Adv Pharm Nurse Anesth II **3 Credit hours**
This course is a continuation of Pharmacology I with an emphasis on drugs acting on the Autonomic Nervous System, local aneshtetic agents, drugs for pain management, and cardiovascular drugs.
Grade Mode: Normal Grading Mode

NUR 735 Clinical Practice Inquiry **3 Credit hours**
Integration of conceptual, theoretical, and empirical knowledge as a basis for evidence-based practice in nurse anesthesia. Examination of the processes required to develop best practice models through the systematic analysis of research.
Pre-req: NUR 741.
Grade Mode: Normal Grading Mode

NUR 741 Adv HC Prac/Phys As **6 Credit hours**
The Introduction ot Health Care Clinical Practicum provides the student with a beginning knowledge and proficiency in all phases of anesthetic management (pre-anesthesia, induction, maintenance, post-anesthesia)
Grade Mode: Credit/No Credit Grade Only

NUR 741-A Health Care Practicum **5 Credit hours**
The Clinical Practicum prepares the student for the full scope of current practice and requires a minimum of 550 clinical cases including a variety of procedures, techniques, and speciality practice.
Pre-req: NUR 741.
Grade Mode: Normal Grading Mode

NUR 741-C Health Care Practicum **5 Credit hours**
Continuation of MPNA 741-A
Pre-req: NUR 741-B.
Grade Mode: Normal Grading Mode

NUR 741A Health Care Clinical Practicum **1 Credit hour**
The Clinical Practicum prepares the student for the full scope of current practice and requires a minimum of 550 clinical cases including a variety of procedures, techniques and specialty practice.
Pre-req: NUR 741.
Grade Mode: Credit/No Credit Grade Only

NUR 741B Nurse Anesth Prof Practice **3 Credit hours**
Continuation of NUR 741.
Pre-req: NUR 741.
Grade Mode: Credit/No Credit Grade Only

NUR 741C Health Care Practicum **6 Credit hours**
Continuation of NUR 741.
Pre-req: NUR 741.
Grade Mode: Credit/No Credit Grade Only

NUR 744 Regional Anesthesia **1 Credit hour**
Continuation and conclusion of materials started in NUR 741.
Pre-req: NUR 741.
Grade Mode: Normal Grading Mode

NUR 785 Independent Study **1-3 Credit hours**
This course is designed to provide the scope and structure for clinical activities for those students who need additional clinical hours for the PM-DNP Program requirements.
Grade Mode: Pass/Fail Grading Mode

NUR 786 Independent Study **1-3 Credit hours**
This course is designed to provide the scope and structure for clinical activities for those students who need additional clinical hours for the PM-DNP Program requirements.
Grade Mode: Pass/Fail Grading Mode

NUR 800 DNP Project I **3 Credit hours**
Application of theory, review of literature and population data to frame evidence based practice (EBP) project.
Pre-req: NUR 700 with a minimum grade of C.
Grade Mode: Normal Grading Mode

NUR 804 DNP Project II **3 Credit hours**
Use theories, methods, and evidence to develop evidence based practice (EBP) project implementation plan.
Pre-req: NUR 700 with a minimum grade of C and NUR 800 with a minimum grade of C.
Grade Mode: Normal Grading Mode

NUR 808 DNP Project III **3 Credit hours**
Implementation of Evidence based practice (EBP) project in clinical agency and data collection.
Pre-req: NUR 800 with a minimum grade of C and NUR 804 with a minimum grade of C.
Grade Mode: Normal Grading Mode

NUR 812 DNP Project IV **3 Credit hours**
Apply theory and evidence-based practice principles to complete, evaluate and disseminate evidence based practice (EBP) project findings.
Pre-req: NUR 800 with a minimum grade of C and NUR 804 with a minimum grade of C and NUR 808 with a minimum grade of C.
Grade Mode: Normal Grading Mode

Obstetrics/Gynecology (OBG)

OBG 710 Obstetrics/Gyn Clerkship **8 Credit hours**
Grade Mode: Normal Grading Mode

OBG 712 OB-GYN Clerkship RPAP **4 Credit hours**
Comprehensive coverage at the introductory level of Obstetrics and Gynecology in the Rural Physician Assistant Program. The reduction in credit to accommodate altered schedule.
Grade Mode: Normal Grading Mode

OBG 713 Ob/Gyn Clerkship Kellogg **4 Credit hours**
Comprehensive coverage at the introductory level of obstetrics & gynecology (in the Kellogg curriculum). The reduction in credit from the standard clerkship to accommodate Kellogg schedule.
Grade Mode: Normal Grading Mode

OBG 742 OBG Clerkship **1-18 Credit hours**
Grade Mode: Pass/Fail Grading Mode

OBG 780 Elective Special Projects **1-18 Credit hours**
Grade Mode: Pass/Fail Grading Mode

OBG 785 Independent Study **1-15 Credit hours**
Independent Study in Obstetrics/Gynecology is desinged to allow the student opportunity to work with a faculty member on a topic of special interest.
Grade Mode: Credit/No Credit Grade Only

OBG 813 Gynecologic Surgery **1-18 Credit hours**
Grade Mode: Pass/Fail Grading Mode

OBG 814 Pediatric/Adoles Gynecology **1-18 Credit hours**
Fourth year elective designed to expand on the knowledge base and information gathering and clinical reasoning skills that were introduced in the third year clerkship.
Grade Mode: Pass/Fail Grading Mode

OBG 815 Racial Dispar in Reprod Health **1-18 Credit hours**
The course is designed to help enhance the learners understanding of race and equity in the provision of medical care, especially as it relates to obstetrics and gynecology.
Grade Mode: Pass/Fail Grading Mode

OBG 816 Res in Obstetrics & Gynecology **4-6 Credit hours**
This course was created to permit the student to create an Obstetrics and Gynecology research experience to meet individual study and/or career interest needs.
Grade Mode: Pass/Fail Grading Mode

OBG 820 Obstetrics & Gynecology **1-18 Credit hours**
Grade Mode: Normal Grading Mode

OBG 825 Family Planning **1-18 Credit hours**
Grade Mode: Normal Grading Mode

OBG 827 Sub-I in Obstetrics **1-18 Credit hours**
Year IV Subinternship in Obstetrics four week duration.
Grade Mode: Pass/Fail Grading Mode

OBG 830 Obstetrics & Gynecology **1-18 Credit hours**
Grade Mode: Normal Grading Mode

OBG 831 Obstetrics & Gynecology **1-18 Credit hours**
Grade Mode: Normal Grading Mode

OBG 835 Maternal-Fetal Medicine **1-18 Credit hours**
To provide the principles of Maternal-Fetal Medicine, going beyond a basic discourse in obstetrics and provide sophisticated material in the clinical and basic sciences of Maternal-Fetal Medicine.
Grade Mode: Pass/Fail Grading Mode

OBG 840 Ob/Gyn Subinternship **1-15 Credit hours**
Pre-req: OBG 710.
Grade Mode: Normal Grading Mode

OBG 850 GYN Oncology **1-18 Credit hours**
This elective is designed for students who anticipate residency in Obstetrics and Gynecology, General Surgery or Oncologic subspecialties. Interest in operating room involvement and patient care an absolute requirement.
Grade Mode: Pass/Fail Grading Mode

OBG 858 In-State Externship in OBG **1-18 Credit hours**
Clinical course to allow students to complete clinical training at approved sites within the State of West Virginia that is no a MUSOM site.
Grade Mode: Pass/Fail Grading Mode

OBG 868 Obstetrics Externship **1-18 Credit hours**
Out-of-State Externship
Grade Mode: Pass/Fail Grading Mode

OBG 888 Rural Health Initia Elec Alt **1-18 Credit hours**
Acquaints students with issues of rural community health and wellness. Provides students with knowledge, attitudes and skills to participate in a changing health care environment.
Grade Mode: Normal Grading Mode

OBG 898 Obstetrics & Gynecology **1-18 Credit hours**
Grade Mode: Normal Grading Mode

OBG 899 Clerkship in Ob/Gyn **1-18 Credit hours**
Grade Mode: Normal Grading Mode

Ophthalmology (OPH)

OPH 804 Ophthalmology **1-18 Credit hours**
This elective will acquaint the senior medical student with the techniques of examination of the eye, common fundus pathology, cataracts, glaucoma, common external problems and ophthalmic emergencies. The student may also be exposed to ophthalmic surgery, pre-op and post-operative care.
Grade Mode: Normal Grading Mode

Orthopaedics (ORT)

ORT 807 Orthopaedics **1-18 Credit hours**
Grade Mode: Pass/Fail Grading Mode

ORT 808 Intro Musculoskeletal Medicine **1-18 Credit hours**
A fourth year elective in non-operative musculoskeletal care is offered, providing experience in multidisciplinary management of diseases of the musculoskeletal system. Rotations may include inpatient medical management of orthopaedic patients, non-operative sports medicine, general clinical orthopaedics, rheumatology, osteoporosis and physical therapy. This course is Pass/Fail. There is no call requirement.
Grade Mode: Pass/Fail Grading Mode

ORT 810 Physical Medicine and Rehab **2-4 Credit hours**
The intent is the creation of opportunities to medical students through an elective rotation to get some clinical exposure and learning from a wide variety of cases in an outpatient setting, treating conditions in the field of Physical Medicine and Rehabilitation from early subacute to disability and long term chronic medical conditions.
Grade Mode: Pass/Fail Grading Mode

ORT 816 Orthopaedic Research Elective **4-6 Credit hours**
A research elective offered in the field of orthopaedics, primarily to 4th year medical students. Students interested in enrolling must first contact the course directors to discuss research opportunities that are available or may be accommodated by the department. Students will be expected to complete their project in the time allotted. Clinical work is proscribed unless it is germane to the project.
Grade Mode: Pass/Fail Grading Mode

ORT 827 Sub-I in Orthopeadics **1-18 Credit hours**
A fourth year subinternship in orthopaedic surgery is offered, providing experience in office and hospital management of diseases of the musculoskeletal system. Preference is given to those considering matching in orthopaedic surgery.
Grade Mode: Pass/Fail Grading Mode

ORT 858 In-State Externship Ortho **1-18 Credit hours**
Clinical course to allow students to complete clinical training at approved sites within the State of West Virginia that is no a MUSOM site.
Grade Mode: Pass/Fail Grading Mode

ORT 868 Orthopedic Externship **1-12 Credit hours**
Grade Mode: Pass/Fail Grading Mode

Pathology (PTH)

PTH 620 Pathology **7 Credit hours**
General principles of pathology, systemic pathology, and holistic integration with laboratory medicine and autopsyclinical-and-cytologic material.
Grade Mode: Normal Grading Mode

PTH 621 Pathology **7 Credit hours**
General principles of pathology, systemic pathology, and holistic integration with laboratory medicine and autopsyclinical-and-cytologic material.
Grade Mode: Normal Grading Mode

PTH 720 Pathology **1-18 Credit hours**
Grade Mode: Normal Grading Mode

PTH 721 Pathology **7 Credit hours**
Grade Mode: Normal Grading Mode

PTH 780 Elective Special Projects **1 Credit hour**
Grade Mode: Normal Grading Mode

PTH 785 Independent Study **1-15 Credit hours**
Grade Mode: Credit/No Credit Grade Only

PTH 802 Specialization Pathology **1-18 Credit hours**
Grade Mode: Pass/Fail Grading Mode

PTH 803 The Practice of Pathology **1-18 Credit hours**
Grade Mode: Pass/Fail Grading Mode

PTH 868 Pathology Externship **1-18 Credit hours**
Out-of-State Externship
Grade Mode: Pass/Fail Grading Mode

PTH 899 Clerkship in Pathology **1-18 Credit hours**
Grade Mode: Normal Grading Mode

Pediatrics (PED)

PED 713 Peds Clerkship Kellogg **4 Credit hours**
Comprehensive coverage at the introductory level of pediatrics (in the Kellogg curriculum). The reduction in credit from standard clerkship to accommodate Kellogg curriculum.
Grade Mode: Normal Grading Mode

PED 730 Pediatric Clerkship **8 Credit hours**
Grade Mode: Normal Grading Mode

PED 742 PED Clerkship **1-18 Credit hours**
Grade Mode: Pass/Fail Grading Mode

PED 780 Elective Special Projects **1 Credit hour**
Grade Mode: Normal Grading Mode

PED 785 Independent Study **1-15 Credit hours**
Grade Mode: Credit/No Credit Grade Only

PED 801 Ambulatory Pediatrics **1-18 Credit hours**
Grade Mode: Pass/Fail Grading Mode

PED 802 Newborn Nursery **2 Credit hours**
This elective will be a continuation of the 3rd year experience in the Newborn nursery. MS4 students will get to further experience all aspects of care of the newborn infant.
Grade Mode: Pass/Fail Grading Mode

PED 803 Primary Care Pediatrics **1-18 Credit hours**
Grade Mode: Pass/Fail Grading Mode

PED 805 Clinical Neonatology **1-18 Credit hours**
Grade Mode: Pass/Fail Grading Mode

PED 806 Pediatric Community Med **1-18 Credit hours**
Grade Mode: Pass/Fail Grading Mode

PED 807 Pediatric Critical Care **1-18 Credit hours**
Intensive care management of the critically ill child.
Grade Mode: Pass/Fail Grading Mode

PED 808 Cardiology **1-18 Credit hours**
Grade Mode: Pass/Fail Grading Mode

PED 810 Pediatric Advocacy **2 Credit hours**
The rotation focuses on a holistic approach to child health advocacy. The student will learn how to advocate for children's health by utilizing media platforms, engaging with policymakers and legislative bodies, and becoming more familiar with community resources for children with various health and socioeconomic backgrounds.
Grade Mode: Pass/Fail Grading Mode

PED 811 Subinternship Pediatrics **1-18 Credit hours**
Grade Mode: Normal Grading Mode

PED 812 Pediatric Gastroenterology **1-18 Credit hours**
This elective will introduce the student to the pediatric subspecialty of gastroenterology. They will participate in supervised clinical evaluation of patients on the hospital ward and in the ambulatory setting.
Grade Mode: Pass/Fail Grading Mode

PED 813 Pediatric Neurology **1-18 Credit hours**
This elective will introduce the student to the pediatric subspecialty of neurology. It will incorporate neuroanatomy, neurophysiology, neurochemistry, developmental and metabolic neurology into one foundation in approaching neurological problems in infancy and childhood.
Grade Mode: Normal Grading Mode

PED 814 Adolescent Medicine **1-18 Credit hours**
This elective is designed to introduce the fourth year student to the spectrum of Adolescent Health Care. The student will be exposed to the multi-disciplinary approach to adolescent health care.
Grade Mode: Pass/Fail Grading Mode

PED 815 Subspecialty Potpourri **1-18 Credit hours**
Grade Mode: Normal Grading Mode

PED 816 Pediatric Research **4-6 Credit hours**
To introduce students to clinical research. Expose students to practical application of biostatistics. Prepare students for professional presentations.
Grade Mode: Pass/Fail Grading Mode

PED 817 Pediatric Neprology **1-18 Credit hours**
This course is a 4-week fourth year elective to gain competence in Point of Care Ultrasound.
Grade Mode: Pass/Fail Grading Mode

PED 820 PED Hematology/Oncology **1-18 Credit hours**
This elective will introduce the student to the subspeciality of hematology/oncology and will involve them in the management and care of inpatients as well as outpatients with a broad spectrum of hematologic and oncologic disorders.
Grade Mode: Pass/Fail Grading Mode

PED 825 Child Development & Behavior **1-18 Credit hours**
This elective will introduce the student to the subspeciality of Child Development and Behavior. Developmental problems in different age groups are diagnosed and treatment plans are formulated. Followup cases will also be seen.
Grade Mode: Pass/Fail Grading Mode

PED 827 Sub-I in Pediatrics **1-18 Credit hours**
The student will function as a member of the house staff team observing and participating in the delivery of care of the pediatric hospital patient from the initial admission with the attending and resident. The complete evaluation of the patient, the planning of the clinical approisal and care will be under the management of the student. All procedures, laboratory follow-through and therapeutic management of the patient will be coordinated with the pediatric resident to whom the student is assigned.
Grade Mode: Pass/Fail Grading Mode

PED 858 In-State Externship in Peds **1-18 Credit hours**
Clinical course to allow students to complete clinical training at approved sites within the State of West Virginia that is no a MUSOM site.
Grade Mode: Pass/Fail Grading Mode

PED 868 Pediatrics Externship **1-18 Credit hours**
Out-of-State Externship
Grade Mode: Pass/Fail Grading Mode

PED 888 Rural Health Initia Elec Alt **1-18 Credit hours**
Acquaints students with issues of rural community health and wellness. Provides students with knowledge, attitudes and skills to participate in a changing health care environment.
Grade Mode: Normal Grading Mode

PED 895 Infectious Diseases **1-18 Credit hours**
Grade Mode: Normal Grading Mode

PED 896 Endocrinology **1-18 Credit hours**
Grade Mode: Normal Grading Mode

PED 898 Allergy/Immunology **1-18 Credit hours**
Grade Mode: Pass/Fail Grading Mode

PED 899 Clerkship in Pediatrics **1-18 Credit hours**
Grade Mode: Normal Grading Mode

Pharmaceutical Sciences (MSPS)

MSPS 512 Med Chem & Drug Disc **1 Credit hour**
This course gives an overview of drug discovery principles and techniques for the practicing medicinal chemist.
Grade Mode: Normal Grading Mode

MSPS 531 Regulatory Affairs **3 Credit hours**
An overview of USFDA's regulation on drug. Topics covered include pharmaceutical regulatory agencies and organizations around the world and their International Regulatory Audits for Pharma, International Conference on Harmonization (ICH) guidelines, Pharmacopoeias and national formulary, US Food and Drug Administration (USFDA): History of USFDA Law and Regulation, GLP, MMP, NDA, and ANDA.
Grade Mode: Normal Grading Mode

MSPS 542 Science Seminars **1 Credit hour**
The course will help graduate students in the pharmaceutical sciences learn the basics of scientific communication and how to critically evaluate scientific literature. This 1 credit hour course is repeatable for credit up to 4 times.
Grade Mode: Normal Grading Mode

MSPS 544 Prin Dis Drug Action **4 Credit hours**
Topics covered include the concepts and mechanisms of the basic processes underlying disease and pathophysiology; the general principles underlying drug action and therapeutics, including receptor pharmacology, enzyme inhibition and pharmacology; the relationship between drug concentration at the target tissue and drug effect; as they relate to drug action and individual variation in response.
Grade Mode: Normal Grading Mode

MSPS 561 Biopharmaceutics I **3 Credit hours**
Topics covered include the physicochemical principles of pharmacy, such as acid-base theory, solubility, physical states of drugs, thermodynamics, drug stability, excipients, surfactants, dispersions, polymers, drug delivery, chemical compatibility and interactions of drugs in various dosage forms.
Grade Mode: Normal Grading Mode

MSPS 562 Biopharmaceutics II **3 Credit hours**
Topics covered include mechanisms of both immediate and sustained drug release in formulations involving solid and semi-solid systems; introduction to novel drug delivery systems; drug pre-formulation, the drug approval processes, and regulations governing the pharmaceutical industry; drug preparation, liberation, absorption and stability dosage.
Grade Mode: Normal Grading Mode

MSPS 581 Special Topics **1-3 Credit hours**
Special Topics
Grade Mode: Normal Grading Mode

MSPS 585 Independent Study **1-3 Credit hours**
Independent Study
Grade Mode: Normal Grading Mode

MSPS 586 Problem Report **1-3 Credit hours**
Problem Report
Grade Mode: Normal Grading Mode

MSPS 632 Prod Dev by Quality Design **3 Credit hours**
Product Development by Quality by Design
Grade Mode: Normal Grading Mode

MSPS 685 Independent Study **1-3 Credit hours**
Independent Study
Grade Mode: Normal Grading Mode

MSPS 686 Problem Report **1-3 Credit hours**
Problem Report
Grade Mode: Normal Grading Mode

MSPS 699 Thesis **1-6 Credit hours**
Thesis
Attributes: Thesis
Grade Mode: Normal Grading Mode

Pharmacology (PMC)

PMC 610 Intro Pharmacology **3 Credit hours**
Grade Mode: Normal Grading Mode

PMC 615 Pharmacology Reviews **1 Credit hour**
Grade Mode: Normal Grading Mode

PMC 620 Medical Pharmacology **8 Credit hours**
An introduction to the basic concepts of drug actions and therapeutic principles governing drug therapy. Emphasis is placed on general mechanisms, therapeutic uses and toxicity of prototypic drugs.
Pre-req: BIC 620.
Grade Mode: Normal Grading Mode

PMC 621 Medical Pharmacology I **6 Credit hours**
This course will encompass the core pharmacology concepts as well as drugs used in the treatment of infectious diseases, cancer, hematological matters, nervous system agents and cardiovascular drugs.
Pre-req: BMS 600.
Grade Mode: Normal Grading Mode

PMC 622 Medical Pharmacology II **2 Credit hours**
This course will encompass the core pharmacology concepts as well as drugs used in the treatment of pulmonary, gastrointestinal, endocrine, renal, and musculoskeletal diseases, drugs specific for mens and womens health, dermatological agents, and toxicology.
Pre-req: BMS 600.
Grade Mode: Normal Grading Mode

PMC 625 Drug Metabolism **3 Credit hours**
Topics will include a discussion of the metabolizing enzymes, enzyme induction and inhibition, toxic metabolites, prodrugs, metabolic disorders and analytical methods for studying drug metabolism.
Grade Mode: Normal Grading Mode

PMC 630 Chem Aspects Pharmacology **3 Credit hours**
An introduction to the chemical principles of pharmacology. The chemical classification, acid-base chemistry and stereochemical properties of drugs and the reactivity of drugs with biological systmes will be discussed.
Grade Mode: Normal Grading Mode

PMC 633 Vistas in Pharmacology **3 Credit hours**
Pre-req: PMC 620.
Grade Mode: Normal Grading Mode

PMC 635 Neuropharmacology **3 Credit hours**
A study of the actions of drugs on the nervous system.
Pre-req: BMS 600.
Grade Mode: Normal Grading Mode

PMC 639 Neuropharm Res Tech **3 Credit hours**
Class participants will be exposed to state-of-the-art neuropharmacology research techniques while in the laboratories of neuropharmacology faculty.
Grade Mode: Credit/No Credit Grade Only

PMC 640 Behavioral Pharmacology **3 Credit hours**
Behavioral methods for assaying drug action.
Pre-req: PMC 635.
Grade Mode: Normal Grading Mode

PMC 643 Intro Cardiopulmonary Pharm **3 Credit hours**
A general overview of the principles of pharmacology and the mechanisms and effects of cardiovascular and respiratory drugs.
Grade Mode: Normal Grading Mode

PMC 645 Adv Cardiopulmonary Pharm **3 Credit hours**
An indepth presentation of pharmacological aspects of cardiovascular and pulmonary systems. Current knowledge, principles and methods used in cardiopulmonary research will be discussed.
Pre-req: PMC 620 or PMC 643.
Grade Mode: Normal Grading Mode

PMC 650 General Toxicology **3 Credit hours**
Pre-req: PMC 620.
Grade Mode: Normal Grading Mode

PMC 655 Toxicology Reviews **1 Credit hour**
This course will provide a presentation and discussion of current literature in the area of toxicology. Fundamental principles and new discoveries will be emphasized.
Grade Mode: Normal Grading Mode

PMC 675 Special Topics **1-4 Credit hours**
Present course material on special areas of research or topics which are not routinely covered in esisting courses.
Grade Mode: Normal Grading Mode

PMC 676 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

PMC 677 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

PMC 720 Medical Pharmacology **8 Credit hours**
Grade Mode: Normal Grading Mode

PMC 780 Elective Special Projects **1 Credit hour**
Grade Mode: Normal Grading Mode

PMC 785 Clinical Pharmacology **1-18 Credit hours**
Independent Study of Pharmacology
Grade Mode: Pass/Fail Grading Mode

PMC 868 PMC Externship **1-18 Credit hours**
Out-of-State Externship
Grade Mode: Pass/Fail Grading Mode

Pharmacy (PHAR)

PHAR 501 Pharm Cont Prof Dev 1 **0 Credit hours**
Students will be introduced to additional professionalism topics, evaluation of clinical skills through the OSCEs and take part in a seminar series throughout the first through third years.
Grade Mode: Pass/Fail Grading Mode

PHAR 502 Pharm Cont Prof Dev 2 **0 Credit hours**
Students will be introduced to additional professionalism topics, evaluation of clinical skills through the OSCEs and take part in a seminar series throughout the first through third years.
Grade Mode: Pass/Fail Grading Mode

PHAR 503 Pharm Cont Prof Dev 3 **0 Credit hours**
Students will be introduced to additional professionalism topics, evaluation of clinical skills through the OSCEs, and take part in a seminar series throughout the first through third years.
Grade Mode: Pass/Fail Grading Mode

PHAR 504 Pharm Cont Prof Dev 4 **0 Credit hours**
Students will be introduced to additional professionalism topics, evaluation of clinical skills through the OSCEs and take part in a seminar series throughout the first through third years.
Grade Mode: Pass/Fail Grading Mode

PHAR 505 Pharm Cont Prof Dev 5 **0 Credit hours**
Students will be introduced to additional professionalism topics, evaluation of clinical skills through the OSCEs, and take part in a seminar series throughout the first through third years.
Grade Mode: Pass/Fail Grading Mode

PHAR 506 Pharm Cont Prof Dev 6 **0 Credit hours**
Students will be introduced to additional professionalism topics, evaluation of clinical skills through the OSCEs and take part in a seminar series throughout the first through third years.
Grade Mode: Pass/Fail Grading Mode

PHAR 512 Pharmacy Skills Lab I **2 Credit hours**
Students will learn the necessary skills of a pharmacist (pt. interviewing, sterile cmpd, immunizations)
Grade Mode: Normal Grading Mode

PHAR 523 Pharmacogenomics **2 Credit hours**
This course will provide students with the foundational knowledge of the principles and concepts of pharmacogenomics and pharmaceutical genetics, including a conceptual understanding of how genomic differences can impact drug metabolism, transport, and targets.
Grade Mode: Normal Grading Mode

PHAR 524 Drug Info & Comm Skills **2 Credit hours**
Topics covered include basic skills in obtaining and utilizing drug information references, and foundational skills required in patient counseling, such as the Indian Health method of counseling.
Grade Mode: Normal Grading Mode

PHAR 531 Biopharmaceutics I **3 Credit hours**
Topics covered include the physicochemical principles of pharmacy, such as acid-base theory, solubility, physical states of drugs, thermodynamics, drug stability, excipients, surfactants, dispersions, polymers, drug delivery, chemical compatibility and interactions of drugs in various dosage forms.
Grade Mode: Normal Grading Mode

PHAR 532 Biopharmaceutics II **3 Credit hours**
Topics covered include mechanisms of both immediate and sustained drug release in formulations involving solid and semi-solid systems; introduction to novel drug delivery systems; drug pre-formulation, the drug approval processes, and regulations governing the pharmaceutical industry; drug preparation, liberation, absorption and stability dosage.
Pre-req: PHAR 531.
Grade Mode: Normal Grading Mode

PHAR 533 Introduction to Pharmacy 1 **3 Credit hours**
Continued professional development of pharmacy practitioner. Sterile produces, top 300 medications, laboratory values, SOAP notes, documentation, medication safety applications including patient counseling and technology, communication and public service are stressed.
Grade Mode: Normal Grading Mode

PHAR 536 Introduction to Pharmacy 2 **3 Credit hours**
Begin professional development understanding the responsibilities of a registered pharmacist providing patient care, professional conduct, personnel management, personal conduct, pharmacy calculations, immunizations, legal issues, and team dynamics are stressed.
Grade Mode: Normal Grading Mode

PHAR 537 Pharmacokinetics **3 Credit hours**
An introductory course emphasizing basic principles in pharmacokinetics.
Grade Mode: Normal Grading Mode

PHAR 538 Pharmacy Skills Lab 2 **3 Credit hours**
Students will learn the necessary skills of a pharmacist (pt. interviewing, sterile cmpd, clinical reasoning)
Grade Mode: Normal Grading Mode

PHAR 542 Immunology and Microbiology **4 Credit hours**
Topics covered include an introduction to the classification, morphology and physiology of microorganisms, primarily organisms that can cause human pathology, such as bacteria, viruses, fungi, protozoans, parasites, and worms; the body's immune response and mechanisms of defense at the cellular and humoral (molecular) level will also be covered in the context of pathogenic organisms, tissue transplants, and autoimmune disease.
Grade Mode: Normal Grading Mode

PHAR 544 Prin of Disease & Drug Action **4 Credit hours**
Topics covered include skills in obtaining and utilizing drug information reference and foundational skills required in patient counseling.
Grade Mode: Normal Grading Mode

PHAR 545 Therapeutics I **4 Credit hours**
Students will learn about the therapeutic use, human physiology, pharmacologic and chemical properties of over-the-counter medication and non-medication interventions for both treatment and prevention of disease.
Pre-req: PHAR 541.
Grade Mode: Normal Grading Mode

PHAR 547 Pharmaceutical Chemistry **4 Credit hours**
An introductory course providing the fundamental basics of pharmaceutical chemistry.
Grade Mode: Normal Grading Mode

PHAR 549 Intro to Community Pharm IPPE **0 Credit hours**
Provide patient care and distribution services in community setting. Students gain experience in professional communication, drug information, patient counseling (prescription and OTC), medication distribution, extemporaneous products, and application of regulations.
Grade Mode: Pass/Fail Grading Mode

PHAR 550 Intro to Institutional IPPE **0 Credit hours**
Provide patient care and distribution services in institutional setting. Students gain experience in professional communications, drug information, patient counseling, medication distribution, medication-management systems, policies and procedures, and application of regulations.
Grade Mode: Pass/Fail Grading Mode

PHAR 591 Cont Prof Dev (CPD) 1 **1 Credit hour**
First of six courses for co-curriculum and tracking achievement milestones. Expands problem solving/critical thinking, education, patient advocacy, cultural awareness, interprofessional collaboration, communication, self-awareness, leadership, innovation and entrepreneurship, and professionalism.
Grade Mode: Normal Grading Mode

PHAR 592 Cont Prof Dev (CPD) 2 **1 Credit hour**
Second of six courses for co-curriculum and tracking achievement milestones. Expands problem solving/critical thinking, education, patient advocacy, cultural awareness, interprofessional collaboration, communication, self-awareness, leadership, innovation and entrepreneurship, and professionalism.
Grade Mode: Normal Grading Mode

PHAR 593 Cont Prof Dev (CPD) 3 **1 Credit hour**
Third of six courses for co-curriculum and tracking achievement milestones. Expands problem solving/critical thinking, education, patient advocacy, cultural awareness, interprofessional collaboration, communication, self-awareness, leadership, innovation and entrepreneurship, and professionalism.
Grade Mode: Normal Grading Mode

PHAR 594 Cont Prof Dev (CPD) 4 **1 Credit hour**
Fourth of six courses for co-curriculum and tracking achievement milestones. Expands problem solving/critical thinking, education, patient advocacy, cultural awareness, interprofessional collaboration, communication, self-awareness, leadership, innovation and entrepreneurship, and professionalism.
Grade Mode: Normal Grading Mode

PHAR 595 Cont Prof Dev (CPD) 5 **1 Credit hour**
Fifth of six courses for co-curriculum and tracking achievement milestones. Expands problem solving/critical thinking, education, patient advocacy, cultural awareness, interprofessional collaboration, communication, self-awareness, leadership, innovation and entrepreneurship, and professionalism.
Grade Mode: Normal Grading Mode

PHAR 596 Cont Prof Dev (CPD) 6 **1 Credit hour**
Sixth of six courses for co-curriculum and tracking achievement milestones. Expands problem solving/critical thinking, education, patient advocacy, cultural awareness, interprofessional collaboration, communication, self-awareness, leadership, innovation and entrepreneurship, and professionalism.
Grade Mode: Normal Grading Mode

PHAR 623 Patient Safety **2 Credit hours**
Further professional development in the management of patient safety policies and procedures. Areas covered: medication reconciliation, discharge planning, risk management, and other methods of improving patient safety.
Grade Mode: Normal Grading Mode

PHAR 635 Research Methods and Stats **3 Credit hours**
The fundamentals of clinical and outcomes research will be discussed and applied to patient care. Students will gain an understanding of study design, research methods, statistical analysis, and research in pharmacy.
Grade Mode: Normal Grading Mode

PHAR 636 Pharm Skills Lab III **3 Credit hours**
Students will learn foundational patient care skills necessary for practice as a pharmacist. Students will apply knowledge, demonstrate critical-thinking and problem-solving skills, practice technical and communication skills, and demonstrate professional behavior in the therapeutic decision making process.
Pre-req: PHAR 512 with a minimum grade of C and PHAR 537 with a minimum grade of C.
Grade Mode: Normal Grading Mode

PHAR 637 Pharm Skills Lab IV **3 Credit hours**
Students will learn foundational patient care skills necessary for practice as a pharmacist. Students will apply knowledge, demonstrate critical-thinking and problem-solving skills, practice technical and communication skills, and demonstrate professional behavior in the therapeutic decision making process.
Pre-req: PHAR 512 with a minimum grade of C and PHAR 538 with a minimum grade of C and PHAR 636 with a minimum grade of C.
Grade Mode: Normal Grading Mode

PHAR 641 Therapeutics 1 - OTC/Self-Care **4 Credit hours**
Students will learn about the therapeutic use, human physiology, pharmacologic and chemical properties of over-the-counter medication and non-medication interventions for both treatment and prevention of disease.
Grade Mode: Normal Grading Mode

PHAR 643 Therapeutics 3 GI & Renal **4 Credit hours**
Students will learn about the pharmacology, pathophysiology, and therapeutics associated with commonly encountered gastrointestinal, hepatic, and renal disorders. Activities emphasized include patient assessment, consultation, communication, drug monitoring, drug effectiveness, and the professional and legal dynamics encountered in pharmacy practice.
Grade Mode: Normal Grading Mode

PHAR 644 Therapeutics 4 - Endocrine **4 Credit hours**
Students will learn about therapeutic and prophylactic treatments for diseases of the endocrine, genitourinary and reproductive systems. Use of medication and non-medication interventions will be emphasized as deemed appropriate. This course will emphasize performance of the activities of the pharmacist as health care provider.
Grade Mode: Normal Grading Mode

PHAR 649 Intro Outpt Clin Skills IPPE **0 Credit hours**
Provides care in interdisciplinary outpatient setting. Participate in clinical care conferences, take medication histories, monitor drug therapy including performing physical assessments, provide patient education, and research patient-specific drug information questions.
Grade Mode: Pass/Fail Grading Mode

PHAR 650 Intro Inpat Clin Skills IPPE **0 Credit hours**
Provide patient care and explore interprofessional health team roles. Students attend clinical rounds, take medication histories, monitor drug therapy, provide patient education, and research drug information questions.
Grade Mode: Pass/Fail Grading Mode

PHAR 652 Therapeutics 2 - Cardiology **5 Credit hours**
Students learn about therapeutic interventions for treatment and prevention of cardiovascular and pulmonary disease. Exploration of human physiology, disease pathophysiology and medications pharmacologic and chemical properties precede therapeutic use discussions.
Grade Mode: Normal Grading Mode

PHAR 662 Pharmacy Administration **6 Credit hours**
Provides students with a functional working knowledge of the healthcare system and business environment. Concepts examined include but are not limited to: leadership, operations management, health policy, motivational theories, employment issues, labor law, pharmacoeconomics, business planning, and financial analysis of pharmacy operations.
Grade Mode: Normal Grading Mode

PHAR 711 Med Therapy Management **1 Credit hour**
The student will learn to resolve medication-related problems to reduce costs and improve outcomes.
Grade Mode: Normal Grading Mode

PHAR 723 Therapeutics 7 - Special Pops **2 Credit hours**
This course will emphasize the unique needs and differences in therapeutic recommendations for patients at the extremes of ages, diverse cultural backgrounds, and those with co-morbidities and other health conditions.
Grade Mode: Normal Grading Mode

PHAR 724 Special Populations **3 Credit hours**
Emphasizes unique needs and differences in therapeutic recommendations for patients in following categories: pediatrics, geriatrics, end-of-life, women's health, diverse cultural backgrounds, co-morbidities (HIV and Opportunistic Infections), and underserved populations.
Grade Mode: Normal Grading Mode

PHAR 730 Therapeutics 8 - Derm/Opht/MUS **3 Credit hours**
Students will learn treatment/prevention of ophthalmic, otic, dermatologic, and musculoskeletal diseases including the physiology, pathophysiology, pharmacology and therapy. This course emphasizes the pharmacist as a healthcare provider.
Grade Mode: Normal Grading Mode

PHAR 732 Clin Aspects Rx Meds **3 Credit hours**
A discussion of the clinical aspects of medications will be covered with an emphasis on 1) pharmaceutical calculations and 2) analysis of the differences between various drugs and drug classes.
Grade Mode: Normal Grading Mode

PHAR 733 Residency Preparation **3 Credit hours**
This course will help to prepare the pharmacy student for completion of postgraduate training, exploring processes including research project design and execution, interviewing, residency applications, and professional development.
Grade Mode: Normal Grading Mode

PHAR 734 Medications of Abuse **3 Credit hours**
This course discusses medications of abuse and their impact on society, reviews the history of substance use disorder relating them to current affairs and the impact on society.
Grade Mode: Normal Grading Mode

PHAR 735 Pharmacy Law & Ethics **3 Credit hours**
An applied analysis of federal and West Virginia state law and ethical standards in the practice of Pharmacy and Pharmaceutical Care.
Grade Mode: Normal Grading Mode

PHAR 736 Pharmacy Skills Lab 6 **3 Credit hours**
Covers foundational patient care skills. Students apply knowledge, demonstrate critical-thinking and problem-solving skills, practice technical and communication skills, and demonstrate professional behavior in the therapeutic decision making process.
Pre-req: PHAR 637 with a minimum grade of C.
Grade Mode: Normal Grading Mode

PHAR 737 Pharmacy Skills Lab 5 **3 Credit hours**
Covers foundational patient care skills. Students apply knowledge, demonstrate critical-thinking and problem-solving skills, practice technical and communication skills, and demonstrate professional behavior in the therapeutic decision making process.
Grade Mode: Normal Grading Mode

PHAR 738 Pharmacy Education I **3 Credit hours**
This course will prepare students for a career in pharmacy education.
Grade Mode: Normal Grading Mode

PHAR 739 Pharmacy Education II **3 Credit hours**
This course will prepare students to apply skills learning in PHAR 738 in a lab setting.
Pre-req: PHAR 738 with a minimum grade of C.
Grade Mode: Normal Grading Mode

PHAR 743 Therapeutics 9 - Hem/Oncology **4 Credit hours**
Students will learn treatment/prevention of heme-onc diseases including physiology, pathophysiology, pharmacology and therapy. Activities emphasized include patient assessment, consultation monitoring, communication, and drug effectiveness (safety, interactions, and adverse events).
Grade Mode: Normal Grading Mode

PHAR 752 Therapeutics 6 - Neuro/Psych **5 Credit hours**
Students will learn treatment and prevention of neurological and psychiatric diseases including the physiology, pathophysiology, pharmacology and therapy. This course emphasizes the pharmacist as a health care provider.
Grade Mode: Normal Grading Mode

PHAR 761 Therapeutics 5 - Infect Dis **5-6 Credit hours**
This course discusses clinical microbiology and principles of anti-infective therapy as well as the pathophysiology, associated pharmacology, and therapeutic approaches to infectious diseases.
Pre-req: PHAR 542 with a minimum grade of C.
Grade Mode: Normal Grading Mode

PHAR 762 Infect Disease Therapeutics **5 Credit hours**
This course discusses clinical microbiology and principles of anti-infective therapy as well as the pathophysiology, associated pharmacology, and therapeutic approaches to infectious diseases and conditions of the integumentary system.
Grade Mode: Normal Grading Mode

PHAR 781 Veterinary Pharmacy **3 Credit hours**
To instruct students in the administration, clinical pharmacology, clinical applications, diseases, medication safety and comparative dosing of veterinary medications that a pharmacist may encounter in the community pharmacy setting.
Grade Mode: Normal Grading Mode

PHAR 801 Special Topics I **1-6 Credit hours**
An opportunity for individual students to gain advanced experiences in practice, research, or service. Students will identify mentor and jointly develop individualized learning outcomes and a learning plan.
Grade Mode: Normal Grading Mode

PHAR 802 Special Topics II **1-6 Credit hours**
An opportunity for students to didactically explore advanced topics within the profession of pharmacy.
Grade Mode: Normal Grading Mode

PHAR 811 IPPE - Community Pharmacy 1 **1 Credit hour**
Introduction to community pharmacy practice in a supervised setting. Students are exposed to the roles and responsibilities of the community pharmacist.
Attributes: Onsite Learning Experience
Grade Mode: Normal Grading Mode

PHAR 813 IPPE - Community Pharmacy 2 **1 Credit hour**
Attributes: Onsite Learning Experience
Grade Mode: Normal Grading Mode

PHAR 814 Intro Phar Institutions 2 **1 Credit hour**
Builds on the foundations of the Institutional Pharmacy 1 Experience. The student will demonstrate critical thinking and problem solving, document professional practice activities, and parenteral compounding abilities.
Grade Mode: Normal Grading Mode

PHAR 815 IPPE - Outpat Clinical Skills **1 Credit hour**
Introduces pharmacist student to the ambulatory care setting. Student will demonstrate the ability to develop a therapeutic plan that includes the selection of appropriate drug therapy based on patient characteristics.
Attributes: Onsite Learning Experience
Grade Mode: Normal Grading Mode

PHAR 816 IPPE - Inpat Clinical Skills **1 Credit hour**
Introduces the pharmacy student to the clinical skills in an institutional setting needed to be successful. Student will demonstrate appropriate drug dosing and drug selection based on patient characteristics.
Attributes: Onsite Learning Experience
Grade Mode: Normal Grading Mode

PHAR 817 IPPE - Pharmacy Management **1 Credit hour**
Students are exposed to the role and responsibilities of a pharmacy team leader, manager, or director and the application of management strategy, tools, and responsibilities.
Attributes: Onsite Learning Experience
Grade Mode: Normal Grading Mode

PHAR 821 IPPE - Institutional **2 Credit hours**
The Introductory Pharmacy Practice Experience in Institutions is designed to allow the student to demonstrate knowledge and skill learned in the classroom while concurrently gaining understanding to the systems and function of the pharmacy in an institutional setting.
Attributes: Onsite Learning Experience
Grade Mode: Normal Grading Mode

PHAR 881 APPE - Adv Inpat Clin Skills **5 Credit hours**
Provides experience in clinicial, acute care/institutional, team-based environment. With guidance, students are expected to collect patient information, evaluate/monitor drug therapy, educate patients/caregivers and respond to drug information inquiries.
Attributes: Onsite Learning Experience
Grade Mode: Normal Grading Mode

PHAR 882 APPE - Adv Outpat Clin Skills **5 Credit hours**
Provides experience in clinically focused multidisciplinary outpatient environment. Responsibilities include collecting patient-specific information, evaluating and monitoring drug therapy, providing education about medications/MRPs and responding to drug or medication related inquiries.
Attributes: Onsite Learning Experience
Grade Mode: Normal Grading Mode

PHAR 883 APPE - Advanced Community **5 Credit hours**
Experience in community pharmacy setting to provide patient-centered care. Responsibilities include dispensing, OTC/Self-Care, MTM, preventative health screening(s), immunizations, compounding and patient counseling as part of the health care team.
Attributes: Onsite Learning Experience
Grade Mode: Normal Grading Mode

PHAR 884 APPE 4-Adv Institutional **5 Credit hours**
This is a 5-week experiential rotation in an approved health system that prepares the student to function within integrated pharmacy services. Particular emphasis is placed on the preparation, distribution, and control of medications, medication monitoring, and the ability to communicate with other healthcare professionals. This rotation develops competence to function as a staff hospital pharmacist.
Attributes: Onsite Learning Experience
Grade Mode: Normal Grading Mode

PHAR 885 APPE - Transitions of Care **5 Credit hours**
Students provide pharmacy services across the healthcare system. Students focus on addressing needs of geriatric and complex patients with multiple chronic disease states with members of the health care team.
Attributes: Onsite Learning Experience
Grade Mode: Normal Grading Mode

PHAR 886 APPE - Diverse Populations **5 Credit hours**
Experience in community, ambulatory or other setting to medically under-served population. Focus on providing culturally sensitive, compassionate and effective care to a diverse, ethnic, rural, poor and/or indigent population(s).
Attributes: Onsite Learning Experience
Grade Mode: Normal Grading Mode

PHAR 887 APPE - Elective **5 Credit hours**
APPE electives take place in variety of pharmacy practice settings and provide student with highly focused experiences based on the preceptor's specialty. Can be taken twice in same semester.
Attributes: Onsite Learning Experience
Grade Mode: Normal Grading Mode

PHAR 891 Pharmacy Capstone I **2 Credit hours**
Pharmacy capstone experience where students are challenged to demonstrate acquisition of pharmacy skill, knowledge, and behavior competency.
Grade Mode: Normal Grading Mode

PHAR 892 Pharmacy Capstone 2 **2 Credit hours**
Pharmacy capstone experience, where students are challenged to demonstrate acquisition of pharmacy skill, knowledge, and behavior competency.
Pre-req: PHAR 891 with a minimum grade of C.
Grade Mode: Normal Grading Mode

Philosophy (PHL)

PHL 500 Ancient Philosophy **3 Credit hours**
Advanced study of major philosophers drawn from the ancient Greek and Roman period.
Grade Mode: Normal Grading Mode

PHL 501 Modern Philosophy **3 Credit hours**
Advanced study of major movements in philosophy from the 17th century on, movements such as rationalism, empiricism, idealism, and existentialism. (PR: Any philosophy course)
Grade Mode: Normal Grading Mode

PHL 520 Metaphysics **3 Credit hours**
A study of what Aristotle called "first philosophy" or the study of being -- later called metaphysics.
Grade Mode: Normal Grading Mode

PHL 521 Philosophy of Knowledge **3 Credit hours**
Advanced study of the nature and possibility of knowledge. (PR: Any philosophy course)
Grade Mode: Normal Grading Mode

PHL 551 Phil of History & Culture **3 Credit hours**
Ancient and modern theories of the meaning and consequence of history and culture.
Grade Mode: Normal Grading Mode

PHL 555 Philosophy of Religion **3 Credit hours**
Theories of the nature and functions of religion, including the meaning of religious language and problems of belief.
Grade Mode: Normal Grading Mode

PHL 560 Phil of Politics & Power **3 Credit hours**
Advanced study of the significance or the place in human reality of political organization, negotiation, strategy and power. (PR: Any philosophy course)
Grade Mode: Normal Grading Mode

PHL 565 Existential Philosophy **3 Credit hours**
A survey of the contributions of leading existentialist philosophers of the past and present from Kierkegaard and Nietzche to Sartre and Tillich; course is conducted much like a seminar.
Grade Mode: Normal Grading Mode

PHL 570 Philosophy of Logic **3 Credit hours**
Advanced study of the nature of logic: whether logic is possible at all, how far it applies, and whether and how there can be conflicting logics. (PR: Any philosophy course)
Grade Mode: Normal Grading Mode

PHL 580 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

PHL 581 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

PHL 582 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

PHL 583 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

PHL 585 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

PHL 586 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

PHL 587 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

PHL 588 Independent Study **1-4 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

PHL 599 Humanities Seminar **3 Credit hours**
Grade Mode: Normal Grading Mode

Physical Science (PS)

PS 500 Astronomy **3 Credit hours**
A study of the stars and planets and galaxies, planetary motion, cosmology and cosmography. Designed to assist teachers and others to develop an interest in astronomy.
Pre-req: PS 500L (may be taken concurrently).
Concurrent PR: PS 500L
Co-req: PS 500L
Grade Mode: Normal Grading Mode

PS 500L Astronomy Laboratory **1 Credit hour**
Fundamental observations in astronomy and their interpretation through physical laws. Quantitative discussion or orbital motion, time, telescopes, solar system, stars, galaxies, and limited opportunity for astronomical observation.
Co-req: PS 500
Grade Mode: Normal Grading Mode

PS 510 Remote Sensing w Applications **4 Credit hours**
A study of the physical systems for collecting remotely sensed data. Statistical/spatial analysis and modeling using image processing/ geographic information/spatial analysis computer software systems with earth resource applications.
Grade Mode: Normal Grading Mode

PS 511 Image Processing/Modeling **4 Credit hours**
A study of image processing/geographic information and spatial analysis hardware/software systems, concurrent and parallel image processing modeling scenarios utilizing geobiophysical data for computer simulation modeling and practicum. (PR: PS 510)
Pre-req: PS 510.
Grade Mode: Normal Grading Mode

PS 580 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

PS 581 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

PS 582 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

PS 583 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

PS 585 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

PS 586 Independent Study **1-4 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

PS 587 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

PS 588 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

PS 646 Sem Rec Develop Phys Sci **3 Credit hours**
Grade Mode: Normal Grading Mode

PS 648 Mod Physics for Teachers **3-5 Credit hours**
A course designed to provide additional background material in atomic and nuclear physics for teachers. Lecture and laboratory.
Grade Mode: Normal Grading Mode

PS 649 Electronics for Teachers **3-5 Credit hours**
A course in basic theory of electronics for teachers. Lecture and laboratory.
Grade Mode: Normal Grading Mode

PS 650 Special Topics **1-4 Credit hours**
Advanced special topics to provide additional group research and classroom/laboratory opportunities.
Grade Mode: Normal Grading Mode

PS 651 Special Topics **1-4 Credit hours**
Advanced special topics to provide additional group research and classroom/laboratory opportunities.
Grade Mode: Normal Grading Mode

PS 660 Independent Studies **1-4 Credit hours**
Advanced independent study topics to provide additional individual research and classroom/laboratory opportunities.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

PS 661 Independent Studies **1-4 Credit hours**
Advanced independent study topics to provide additional individual research and classroom/laboratory opportunities.
Grade Mode: Normal Grading Mode

PS 670 Advanced Practicum **1-4 Credit hours**
Advanced problem solving, geobiophysical modeling, and project development techniques in the physical sciences.
Pre-req: PS 510 and PS 511.
Attributes: Onsite Learning Experience
Grade Mode: Normal Grading Mode

PS 681 Thesis Research **1-6 Credit hours**
Credit earned by pursuing directed original research in a physical science area. A grade of PR may be reported at the close of each semester.
Attributes: Onsite Learning Experience, Thesis
Grade Mode: Normal Grading Mode

PS 682 Thesis Research **1-6 Credit hours**
Credit earned by pursuing directed original research in a physical science area. A grade of PR may be reported at the close of each semester.
Attributes: Onsite Learning Experience, Thesis
Grade Mode: Normal Grading Mode

Physical Therapy (PT)

PT 700 Gross Anatomy for PT **5 Credit hours**
Lecture and laboratory focusing on anatomical structure and function of the human body. Cadaveric dissection provides practical experiences allowing students to develop working images of the body and its function.
Grade Mode: Normal Grading Mode

PT 701 Neuroanatomy **4 Credit hours**
Normal and abnormal structure and function of central, peripheral and autonomic systems, neurodevelopment, and neural mechanisms mediating motor control and pain with emphasis on clinical relevance to physical therapy.
Grade Mode: Normal Grading Mode

PT 702 Neuro Evaluation **1 Credit hour**
Comprehensive screening, exam and evaluation of patients with neurological dysfunction with focus on selection and interpretation of examination components in order to discern underlying pathophysiology reflective of neurological dysfunction.
Grade Mode: Normal Grading Mode

PT 704 Neurorehabilitation **4 Credit hours**
Theoretical basis and clinical application of neurophysiological approaches to treatment utilizing motor control, sensorimotor development and integration principles, including discussion and practice of current methods of evaluation and intervention.
Grade Mode: Normal Grading Mode

PT 710 Clinical Skills I **3 Credit hours**
Lecture and laboratory introducing students to basic histology of connective, nervous, epithelial and muscle tissue utilized in human movement, palpation, goniometry, and manual muscle testing.
Grade Mode: Normal Grading Mode

PT 711 Kinesiology & Biomechs in PT **3 Credit hours**
Biomechanical terminology and principles, muscle actions, joint mechanics, joint segments and whole-body movement pattern analysis, and mastery of human movement observational analysis skills necessary for differential diagnosis of movement dysfunction.
Grade Mode: Normal Grading Mode

PT 712 Motor Control & Develop in PT **3 Credit hours**
Reviews maturation of movement systems, lifespan motor skills development, and contemporary theories of motor control and learning to build evidence-based foundations for evaluation and management of movement dysfunction.
Grade Mode: Normal Grading Mode

PT 713 Outcome Measures in PT **2 Credit hours**
Assessment of constraints to normal movement, application of standardized tools for assessment of movement dysfunction, examination of statistical data (population specific reliability, validity, sensitivity, specificity, odds ratios) of said tools.
Grade Mode: Normal Grading Mode

PT 714 Movement Integration **1 Credit hour**
This course prepares students to integrate knowledge of the movement system with synthesis of pathology and patient specific movement patterns. Identification and treatment of movement impairments will be emphasized.
Grade Mode: Normal Grading Mode

PT 720 Advanced Clinical Physiology **3 Credit hours**
Reviews normal human cellular- and organ-level physiology, histology, and function and introduces related topics of pathophysiology including: clinical signs and symptoms, clinical laboratory science, medical management and pharmacological issues.
Grade Mode: Normal Grading Mode

PT 721 Applied Ex Phys **3 Credit hours**
Physiological effects of exercise and training in heathy individuals and individuals with pathological dysfunction.
Grade Mode: Normal Grading Mode

PT 731 Clinical Skills II **3 Credit hours**
Theory/practice of essential physical therapy skills, including clinical decision making, interview, postural and functional assessment, safe patient handling techniques of positioning, bed mobility, transfers, and use of assistive devices.
Grade Mode: Normal Grading Mode

PT 732 Therapeutic Exercise **3 Credit hours**
Lecture and laboratory introducing students to the science, principles, and techniques of therapeutic exercise including range of motion, flexibility, motor control, strength, coordination, and balance for the treatment of patients across the life-span.
Grade Mode: Normal Grading Mode

PT 733 Therapeutic Modalities **1 Credit hour**
Physiological effects and the clinical application of therapeutic modalities (biophysical agents) in physical therapy practice.
Pre-req: PT 732 with a minimum grade of C.
Grade Mode: Normal Grading Mode

PT 734 Clinical Skills III **1 Credit hour**
Comprehensive patient/client management approach for conditions in acute care involving clinical decision-making, effective communication, safety, patient management, discharge planning, and introduction to equipment, lines and tubes, lab values, and medications.
Grade Mode: Normal Grading Mode

PT 741 Medical Pathology in PT I **2 Credit hours**
Pathological conditions, and medical and surgical considerations for treatment of genetic, gastrointestinal renal, endocrine and metabolic, immune, hematologic, and infectious disorders in patients treated by physical therapists.
Grade Mode: Normal Grading Mode

PT 742 Medical Pathology in PT II **2 Credit hours**
Pathological conditions, and medical and surgical considerations for treatment of musculoskeletal disorders in patients treated by physical therapists.
Grade Mode: Normal Grading Mode

PT 744 Med Pathology in PT III Neuro **3 Credit hours**
This course reviews the functional neuroanatomy and neuropathlogy correlated with select neuropathlogical conditions or injury, focusing on etiology, epidemiology, medical/surgical considerations, neural substrates of cognitive, perceptual, and sensorimotor function in patients treated by physical therapists.
Grade Mode: Normal Grading Mode

PT 745 Imaging in Physical Therapy **1 Credit hour**
Students will gain understanding of the use of medical imaging by physical therapists. Plain film and advanced imaging modalities are covered. Clinical decision making is emphasized.
Pre-req: PT 700 with a minimum grade of C and PT 701 with a minimum grade of C.
Grade Mode: Normal Grading Mode

PT 746 Medical Tests and Measurements **1 Credit hour**
Basic principles of medical diagnostic tests, such as laboratory tests, medical imaging, sonography and EKG, commonly encountered in physical therapy.
Grade Mode: Normal Grading Mode

PT 747 Pharmacology in PT **2 Credit hours**
Examination of the effects of commonly used prescription, over the counter and homeopathic drugs. Focus on method of action, indications, contraindications, side effects and impact on physical therapy patients.
Grade Mode: Normal Grading Mode

PT 748 Pain Science **1 Credit hour**
A study of the multidimensional nature of pain using a biopsychosocial approach that includes contemporary pain science theories, concepts and principles, and the holistic assessment and management of pain in physical therapy practice.
Grade Mode: Normal Grading Mode

PT 750 Foundations of Phys Ther **2 Credit hours**
Introduces students to medical terminology, historical foundations, and contemporary practice of physical therapy, traditional and emerging roles and responsibilities and professional behaviors of the physical therapist and issues of self-awareness and communications.
Grade Mode: Normal Grading Mode

PT 751 Legal & Ethical Issues in PT **2 Credit hours**
Development of cultural competence, analysis and practice of communications skills including documentation, professionalism, group dynamics and leadership to assume roles of practitioner, instructor, supervisor, and leader.
Grade Mode: Normal Grading Mode

PT 752 Professional Practice II **2 Credit hours**
Introduction to legislative process, liability, and legal and ethical issues, including considerations of task delegation and supervision of patients/clients, physical therapist assistants, staff, and students.
Grade Mode: Normal Grading Mode

PT 753 Professional Practice II **2 Credit hours**
Teaching and learning principles, practitioner and clincial instructor roles, clinical education program, facility, faculty, and student responsibilities, clinical and program evaluative instruments, patient advocacy and preparation for community service opportunities.
Grade Mode: Normal Grading Mode

PT 754 Health Care Delivery Systems **1 Credit hour**
Micro and macro principles of healthcare delivery systems, sites, and organizations and pro bono services. Legalities of appropriate documentation for third party payers and federal insurance programs are addressed.
Grade Mode: Normal Grading Mode

PT 755 Service Learning Practicum **1 Credit hour**
Allows participation in service learning programs emphasizing advocacy for the health needs of the region, as well as coordination with community agencies.
Grade Mode: Pass/Fail Grading Mode

PT 756 Administration in PT **3 Credit hours**
Emphasis on administration of clinical practice in multiple settings. Information about licensure, attainment and retention of employment, professional organization membership, residency and fellowship programs, and specialization.
Grade Mode: Normal Grading Mode

PT 758 PM&BC in PT Practice **1 Credit hour**
Introduction to patient motivation and behavioral change in physical therapy practice. Emphasis on practical strategies to promote healthy patient/client change leading to improved human movement and overall health
Grade Mode: Normal Grading Mode

PT 761 EBP I **2 Credit hours**
Decision making, diagnosis, and hypothesis development, utilization of information sources, and principles, concepts, and skills required to critically analyze and conduct clinical research in physical therapy.
Grade Mode: Normal Grading Mode

PT 762 EBP II **1 Credit hour**
Principles, concepts, and basic skills required to conduct clinical research in physical therapy. Topics include research design, sampling, bias, sensitivity and specificity, questionnaire design, statistical computing, conceptual review of literature.
Grade Mode: Normal Grading Mode

PT 763 EBP II **2 Credit hours**
Students are guided through the process of a Systematic Literature Review development on a topic selected by the student and their Faculty Research Advisor and learn to apply principles of research to the clinical decision making process and to make recommendations for practice.
Grade Mode: Normal Grading Mode

PT 764 EBP III **1 Credit hour**
Continuation of Evidence Based Practice III where students receive continued guidance in the completion of the faculty led capstone project begun in EBP III. Presentation of capstone required before graduation.
Grade Mode: Normal Grading Mode

PT 765 EBP IV **1 Credit hour**
Continuation of Evidence Based Practice IV where students receive continued guidance in the completion of the faculty led capstone project begun in EBP III. Presentation of capstone required before graduation.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

PT 766 EBP V **1 Credit hour**
Continuation of Evidence Based Practice V where students receive continued guidance in the completion of the faculty led capstone project begun in EBP III. Presentation of capstone required before graduation.
Grade Mode: Normal Grading Mode

PT 767 EBP VI **1 Credit hour**
Continuation of Evidence Based Practice VI where students receive continued guidance in the completion of the faculty led capstone project begun in EBP III culminating with presentation of completed capstone.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

PT 771 Clin Application Seminar I **1 Credit hour**
Application of knowledge and skills through small group discussion and simulation, focusing on non-ambulatory settings, basic orthopaedic conditions in ambulatory setting, telehealth, and integration of outcome measures.
Grade Mode: Pass/Fail Grading Mode

PT 772 Clin Application Seminar II **1 Credit hour**
Application of information and clinical skills learned in concurrent and prior DPT coursework in a small group discussion and pseudo-clinical setting. Focus on management of moderately complex neuromusculoskeletal dysfunction in a variety of settings.
Attributes: No Textbook Required
Grade Mode: Pass/Fail Grading Mode

PT 773 Clin Application Seminar III **1 Credit hour**
Application of knowledge and skills learned in the curriculum through small group discussion, simulation, and intra-interprofessional collaboration with a focus on cardiopulmonary and neurologic dysfunctions.
Grade Mode: Pass/Fail Grading Mode

PT 774 Clin Application Seminar IV **1 Credit hour**
Continued application of information and clinical skills learned in concurrent and prior DPT coursework in a small group discussion and pseudo-clinical setting. Focus on spinal pathology and neuromuscular dysfunction.
Grade Mode: Pass/Fail Grading Mode

PT 775 Clin Application Seminar V **1 Credit hour**
Continued application of information and clinical skills learned in concurrent and prior DPT coursework in a small group discussion and pseudo-clinical setting. Focus on cardiopulmonary and complex neuromuscular dysfunction.
Grade Mode: Pass/Fail Grading Mode

PT 776 Clin Application Seminar VI **1 Credit hour**
Continued application of information and clinical skills learned in concurrent and prior DPT coursework in a small group discussion and pseudo-clinical setting. Interdisciplinary management of patients with complex concerns.
Grade Mode: Pass/Fail Grading Mode

PT 777 Clin Application Seminar VII **1 Credit hour**
Continued application of information and clinical skills learned in concurrent and prior DPT coursework in a small group discussion and pseudo-clinical setting. Focus on health promotion and chronic disease prevention.
Grade Mode: Pass/Fail Grading Mode

PT 781 Orthopedics in PT I **3 Credit hours**
The principles of orthopedic physical therapy, including an overview of etiology, examination, evaluation, diagnosis, conservative intervention, and surgical management for the peripheral (extremity) musculoskeletal system will be emphasized.
Grade Mode: Normal Grading Mode

PT 782 Orthopaedics in PT II **4 Credit hours**
The principles of orthopedic physical therapy, including an overview of etiology, examination, evaluation, diagnosis, conservative intervention, and surgical management for the axial (spinal) musculoskeletal system will be emphasized.
Grade Mode: Normal Grading Mode

PT 783 Cardiopulmonary in PT **4 Credit hours**
An overview of cardiovascular and pulmonary systems pathologies, medical diagnosis and management and physical therapy diagnosis, examination, assessment and management of related physiological and movement dysfunctions.
Grade Mode: Normal Grading Mode

PT 784 Integumentary **2 Credit hours**
Review of structure, function, and applied pathophysiology of the integumentary and lymphatic systems. Includes examination and management of common integumentary and lymphatic impairments focusing on prevention, restoration, and optimizing independence.
Grade Mode: Normal Grading Mode

PT 785 Health Promo and Nutrition **2 Credit hours**
Development and maintenance of healthy lifestyles for patients and clients. Focus on disease prevention, nutritional needs, and the benefits of exercise as well as managing individuals with injury or disease.
Grade Mode: Normal Grading Mode

PT 786 Pediatrics & Geriatrics in PT **3 Credit hours**
Principles of evaluation and treatment in the areas of pediatrics and geriatrics. Emphasis placed on biopsychosocial aspects of developmental disabilities, coordination of care and complexities of multi-system and multi-organ disease.
Grade Mode: Normal Grading Mode

PT 787 Prosthetics & Orthotics **2 Credit hours**
Principles of evaluation and management of patients with amputation and/or neuromuscular disorders to maximize functional independence. Focus on prosthetic and orthotic prescription, components, fabrication, fit, and use during functional activities.
Grade Mode: Normal Grading Mode

PT 788 Special Topics in PT **1 Credit hour**
Principles of physical therapy management of select patient populations including bariatrics, women's health, oncology, and selected progressive and chronic diseases.
Grade Mode: Normal Grading Mode

PT 789 Ortho III (Primary Care PT) **2 Credit hours**
The course will prepare students to collaboratively function as a human movement system expert within the primary care delivery model. Screening, triage, decision making, consulting, and education will be emphasized.
Grade Mode: Normal Grading Mode

PT 790 ICEs in Physical Therapy I **1 Credit hour**
Supervised clinical experiences and seminar sessions designed to provide exposure to the clinical practice of physical therapy, focused on psychomotor skills and affective behaviors, while applying previously acquired didactic information.
Grade Mode: Normal Grading Mode

PT 791 Clinical Internship I **4 Credit hours**
Supervised clinical education experience emphasizing continued development and reinforcement of clinical skills in clinical settings. Competence is expected in areas of the material presented to date in the curriculum.
Grade Mode: Pass/Fail Grading Mode

PT 792 Clinical Internship II **6 Credit hours**
Supervised clinical education experience emphasizing continued development and reinforcement of clinical skills in various clinical settings. Competence is expected in areas of the material presented to date in the curriculum.
Grade Mode: Pass/Fail Grading Mode

PT 793 Clinical Internship III **6 Credit hours**
Supervised clinical education experience emphasizing continued development and reinforcement of clinical skills in various clinical settings. Competence is expected in areas of the material presented to date in the curriculum.
Attributes: No Textbook Required
Grade Mode: Pass/Fail Grading Mode

PT 794 ICEs in PT II **1 Credit hour**
Faculty supervised clinical experiences in a student-directed pro bono physical therapy clinic with complementary activities related to clinical practice, serving the community, and strengthening clinical partnerships.
Grade Mode: Credit/No Credit Grade Only

PT 798 Independent Study **1-4 Credit hours**
Independent study of a specific nature under the supervision of a qualified faculty member. Hours of credit are determined by the magnitude of the project. (PR: permission of Chair of School of Physical Therapy)
Grade Mode: Normal Grading Mode

PT 799 Integration & Review **1 Credit hour**
Integration and review of clinical physical therapy principles and concepts in preparation for the National Physical Therapy Board Examination.
Grade Mode: Credit/No Credit Grade Only

Physician Assistant

PAS 500 Foundations of Medicine **7 Credit hours**
This course develops an understanding of normal physiology, genetics, microbiology, pathology and pathophysiologic concepts of disease per organ system. Knowledge will be applied in subsequent semesters.
Co-req: PAS 520, PAS 530, PAS 550
Grade Mode: Normal Grading Mode

PAS 520 Gross Anatomy for the PA **4 Credit hours**
This course encompasses a comprehensive approach to the study of gross anatomy while incorporating appropriate clinical application to basic organization, structure, sectional, and surface anatomy.
Co-req: PAS 500, PAS 530, PAS 550
Grade Mode: Normal Grading Mode

PAS 530 Pharmacology Principles **3 Credit hours**
This course, the first in a series, develops skills related to applying general principles of pharmacology and pharmacotherapeutics to the treatment and management of disease.
Co-req: PAS 500, PAS 520, PAS 550
Grade Mode: Normal Grading Mode

PAS 550 History and Physical Exam **3 Credit hours**
This course focuses on the medical record and the skills needed to obtain a medical history and perform a complete physical examination. Students will apply knowledge through experiential components.
Co-req: PAS 500, PAS 520, PAS 530
Grade Mode: Normal Grading Mode

PAS 600 Clinical Medicine I **6 Credit hours**
This course, the first in a series, provides intensive study of human diseases and disorders in the selected areas of clinical medicine.
Co-req: PAS 601, PAS 602, PAS 603, PAS 604, PAS 605, PAS 606
Grade Mode: Normal Grading Mode

PAS 601 Pharmacology for the PA I **2 Credit hours**
Aligning with the topics in Clinical Medicine I, this course applies pharmacologic and pharmacotherapeutic principles to the treatments of diseases and disorders studied.
Co-req: PAS 600, PAS 602, PAS 603, PAS 604, PAS 605, PAS 606
Grade Mode: Normal Grading Mode

PAS 602 Clinical Concepts I **2 Credit hours**
Aligning with the topics in Clinical Medicine I, the course deepens knowledge by developing clinical decision making and problem-solving skills in a case-based format.
Co-req: PAS 600, PAS 601, PAS 603, PAS 604, PAS 605, PAS 606
Grade Mode: Normal Grading Mode

PAS 603 Clinical Assessment I **2 Credit hours**
Building upon History and Physical Examination and aligning with topics in Clinical Medicine I, this course applies physical assessment skills to the organ systems being concurrently studied.
Co-req: PAS 600, PAS 601, PAS 602, PAS 604, PAS 605, PAS 606
Grade Mode: Normal Grading Mode

PAS 604 Testing and Procedures I **2 Credit hours**
This course develops diagnostic and therapeutic skills along with essential technical skills and procedures necessary for clinical practice.
Co-req: PAS 600, PAS 601, PAS 602, PAS 603, PAS 605, PAS 606
Grade Mode: Normal Grading Mode

PAS 605 PA's in Health Care **2 Credit hours**
This course provides students with the knowledge and understanding of the history of the Physician Assistant Profession and the development and status of the profession within the US health system.
Co-req: PAS 600, PAS 601, PAS 602, PAS 603, PAS 604, PAS 606
Grade Mode: Normal Grading Mode

PAS 606 PA Evidence Based Practice **2 Credit hours**
This course prepares students to search, interpret, and evaluate the medical literature. Emphasis is placed on life-long learning and the importance of applying gained knowledge to patient care.
Co-req: PAS 600, PAS 601, PAS 602, PAS 603, PAS 604, PAS 605
Grade Mode: Normal Grading Mode

PAS 610 Clinical Medicine II **6 Credit hours**
This course, the second in a series, provides intensive study of human diseases and disorders in the selected area of clinical medicine.
Co-req: PAS 611, PAS 612, PAS 613, PAS 614, PAS 615, PAS 616
Grade Mode: Normal Grading Mode

PAS 611 Pharmacology for the PA II **2 Credit hours**
Aligning with the topics in Clinical Medicine II, this course applies pharmacologic and pharmacotherapeutic principles to the treatments of diseases and disorders studied.
Co-req: PAS 610, PAS 612, PAS 613, PAS 614, PAS 615, PAS 616
Grade Mode: Normal Grading Mode

PAS 612 Clinical Concepts II **2 Credit hours**
Aligning with the topics in Clinical Medicine II, this course deepens knowledge by developing clinical decision making and problem solving skills in a case based format.
Co-req: PAS 610, PAS 611, PAS 613, PAS 614, PAS 615, PAS 616
Grade Mode: Normal Grading Mode

PAS 613 Clinical Assessment II **2 Credit hours**
Building on History and Physical Examination and aligning with the topics in Clinical Medicine II, this course applies physical assessment skills to the organ systems being concurrently studied.
Co-req: PAS 610, PAS 611, PAS 612, PAS 614, PAS 615, PAS 616
Grade Mode: Normal Grading Mode

PAS 614 Testing and Procedures II **2 Credit hours**
This course develops diagnostic and therapeutic skills along with essential technical skills and procedures necessary for clinical practice.
Co-req: PAS 610, PAS 611, PAS 612, PAS 613, PAS 615, PAS 616
Grade Mode: Normal Grading Mode

PAS 615 Health Policy for the PA **2 Credit hours**
This course explores issues of cultural competence, ethics, patient safety, and the political and public health issues that affect patient care for the practicing PA.
Co-req: PAS 610, PAS 611, PAS 612, PAS 613, PAS 614, PAS 616
Grade Mode: Normal Grading Mode

PAS 616 Clinical Specialties I **3 Credit hours**
This course provides an intensive study in the evaluation, diagnosis and treatment of patients in the specialty areas of pediatrics, reproductive medicine and geriatrics.
Co-req: PAS 610, PAS 611, PAS 612, PAS 613, PAS 614, PAS 615
Grade Mode: Normal Grading Mode

PAS 620 Clinical Medicine III **6 Credit hours**
This course, the third in a series, provides intensive study of human diseases and disorders in selected areas of clinical medicine.
Co-req: PAS 621, PAS 622, PAS 623, PAS 624, PAS 625, PAS 626, PAS 627
Grade Mode: Normal Grading Mode

PAS 621 Pharmacology for the PA III **2 Credit hours**
Aligning with the topics in Clinical Medicine III, this course applies pharmacologic and pharmacotherapeutic principles to the treatments of diseases and disorders studied.
Co-req: PAS 620, PAS 622, PAS 623, PAS 624, PAS 625, PAS 626, PAS 627
Grade Mode: Normal Grading Mode

PAS 622 Clinical Concepts III **2 Credit hours**
Aligning with the topics in Clinical Medicine III, this course deepens knowledge by developing clinical decision making and problem-solving skills in a case-based format.
Co-req: PAS 620, PAS 621, PAS 623, PAS 624, PAS 625, PAS 626, PAS 627
Grade Mode: Normal Grading Mode

PAS 623 Clinical Assessment III **2 Credit hours**
Building upon History and Physical Examination and aligning with the topics in Clinical Medicine III, this course applies physical assessment skills to the organ systems being concurrently studied.
Co-req: PAS 620, PAS 621, PAS 622, PAS 624, PAS 625, PAS 626, PAS 627
Grade Mode: Normal Grading Mode

PAS 624 Testing and Procedures III **2 Credit hours**
This course develops diagnostic and therapeutic skills along with essential technical skills and procedures necessary for clinical practice.
Co-req: PAS 620, PAS 621, PAS 622, PAS 623, PAS 625, PAS 626, PAS 627
Grade Mode: Normal Grading Mode

PAS 625 PA Professional Practice **2 Credit hours**
This course focuses on the economics of healthcare, risk reduction, billing and coding, preparing for clinical practice, and interprofessional collaboration.
Co-req: PAS 620, PAS 621, PAS 622, PAS 623, PAS 624, PAS 626, PAS 627
Grade Mode: Normal Grading Mode

PAS 626 Clinical Specialties II **3 Credit hours**
This course provides an intensive study in the evaluation, diagnosis and treatment of patients in the areas of surgery, emergency medicine, and rehabilitative medicine.
Co-req: PAS 620, PAS 621, PAS 622, PAS 623, PAS 624, PAS 625, PAS 627
Grade Mode: Normal Grading Mode

PAS 627 Psychiatry for the PA **2 Credit hours**
This course provides a basic knowledge of psychiatry, psychiatric medical conditions, and special approaches to care for patients with a variety of mental health conditions.
Co-req: PAS 620, PAS 621, PAS 622, PAS 623, PAS 624, PAS 625, PAS 626
Grade Mode: Normal Grading Mode

PAS 650 PA Primary Care I **4 Credit hours**
This rotation provides clinical instruction in primary care in an outpatient medical setting.
Grade Mode: Normal Grading Mode

PAS 651 PA Primary Care II **4 Credit hours**
This rotation provides clinical instruction in primary care in a rural, outpatient setting.
Grade Mode: Normal Grading Mode

PAS 652 PA Psychiatry I **4 Credit hours**
This rotation provides clinical instruction in the care with patients with psychiatric illness and behavioral health disorders. Differing aspects of psychiatric care and medication management are introduced.
Grade Mode: Normal Grading Mode

PAS 653 PA Internal Medicine I **4 Credit hours**
This rotation provides clinical instruction in internal medicine in an inpatient setting. The student will develop an awareness of the complexity of disease processes and different diagnosis.
Grade Mode: Normal Grading Mode

PAS 654 PA Internal Medicine Sub **4 Credit hours**
This rotation provides clinical instruction in an internal medicine sub-specialty.
Grade Mode: Normal Grading Mode

PAS 655 PA Women's Health **4 Credit hours**
This rotation provides clinical instruction in obstetrics and gynecology in both outpatient and inpatient settings.
Grade Mode: Normal Grading Mode

PAS 656 PA Pediatrics **4 Credit hours**
This rotation provides clinical instruction in pediatric primary care.
Grade Mode: Normal Grading Mode

PAS 657 PA General Surgery **4 Credit hours**
This rotation provides clinical instruction in the principles of surgery, pre-operative evaluation and preparatory procedures, post-operative care, and development of surgical skills.
Grade Mode: Normal Grading Mode

PAS 658 PA Emergency Medicine **4 Credit hours**
This rotation provides clinical instruction in emergency medicine.
Grade Mode: Normal Grading Mode

PAS 659 Orthopaedics **4 Credit hours**
This rotation provides clinical instruction in orthopaedics in outpatient and inpatient settings.
Grade Mode: Normal Grading Mode

PAS 660 PA Clinical Elective **4 Credit hours**
This rotation provides clinical instruction in the area of medicine related to the student's clinical or academic interest. Faculty approval is required.
Grade Mode: Normal Grading Mode

PAS 690 Senior Seminar **3 Credit hours**
This course applies medical knowledge, interpersonal skills, patient care skills and professionalism learned in preparation for a student to enter clinical practice.
Grade Mode: Normal Grading Mode

Physics (PHY)

PHY 505 Optics Lab **2 Credit hours**
A course in optical experiments encompassing geometrical and physical optics. This course is to be taken with Physics 304.
Pre-req: PHY 304 (may be taken concurrently).
Concurrent PR: PHY 304
Grade Mode: Normal Grading Mode

PHY 508 Thermal and Stat Physics **3 Credit hours**
Introduction to Thermodynamics, kinetic theory of gases, classical and quantum statistical mechanics, Bose-Einstein and Fermi-Dirac statistics, and application. 3 cr. lec.
Grade Mode: Normal Grading Mode

PHY 515 Electronics Lab **2 Credit hours**
A course in laboratory measurements encompassing transistors, integrated circuits, and their associated circuits. This course is to be taken with Physics 314.
Grade Mode: Normal Grading Mode

PHY 520 Astrophysics **3 Credit hours**
A detailed study of core problems in Astrophysics such as orbital dynamics, radiation processes, stellar structure and evolution, galactic dynamics, and cosmology.
Grade Mode: Normal Grading Mode

PHY 521 Modern Physics Lab **2 Credit hours**
Laboratory exercises on modern physics topics encompassing both experiments of historic significance and current applications. To be taken with Physics 320, or equivalent.
Grade Mode: Normal Grading Mode

PHY 525 Solid State Physics **3 Credit hours**
The purpose of this course is to provide a broad introduction to the structures and physical properties of solids, which are of extraordinary importance in the modern world.
Grade Mode: Normal Grading Mode

PHY 535 Computational Physics **3 Credit hours**
A course in using numerical methods and computer programming languages for solving complex physics problems and for the simulation of various physical processes. 2 lec-2 lab.
Grade Mode: Normal Grading Mode

PHY 542 Quantum Mechanics **3 Credit hours**
Mathematical formalism of quantum mechanics, particles in potential fields, perturbation theory and other approximation methods, scattering, applications to simple systems. 3 lec.
Grade Mode: Normal Grading Mode

PHY 543 Quantum Mechanics II **3 Credit hours**
This is the second part of a two-semester introduction to quantum mechanics. Emphasis is on applications of quantum theory including approximation techniques and the study of more realistic quantum systems.
Grade Mode: Normal Grading Mode

PHY 544 Advanced Lab **2 Credit hours**
Developments in producing and detecting correlated photon pairs has enabled implementation of undergraduate laboratories demonstrating fundamental quantum mechanical principles. This laboratory also incorporates fundamental solid state and materials science experiments.
Pre-req: PHY 525 (may be taken concurrently) with a minimum grade of D and PHY 542 (may be taken concurrently) with a minimum grade of D.
Concurrent PR: PHY 525 and PHY 542
Grade Mode: Normal Grading Mode

PHY 545 Math Methods of Physics **3 Credit hours**
An introduction to the theory of orthogonal functions, curvilinear coordinate systems, vector and tensor fields and their applications in Physics. Problems are drawn from different areas of physics. 3 lec.
Grade Mode: Normal Grading Mode

PHY 546 MTH Methods of Physics II **3 Credit hours**
A second semester of a full year course on methods of solving problems in physics: calculus of variations, ordinary partial differential equations and special functions with real physics problems.
Pre-req: PHY 545.
Grade Mode: Normal Grading Mode

PHY 547 Mechanics for Teachers **4 Credit hours**
An indepth study of mechanics for education majors specializing in Physics with emphasis on problem solving techniques, demonstrations, experiments and computer applications. (PR: PHY 203, MTH 122 and MTH 140)
Grade Mode: Normal Grading Mode

PHY 580 Special Topics **2-4 Credit hours**
Grade Mode: Normal Grading Mode

PHY 581 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

PHY 582 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

PHY 583 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

PHY 585 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

PHY 586 Independent Study **1-4 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

PHY 587 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

PHY 588 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

PHY 600 Electricity and Magnetism I **4 Credit hours**
A study of electrostatics and associated boundary-value problems, electric multipoles and macroscopic media, dielectrics, magnetostatics, time-varying fields, Maxwell equations and conservation laws, plane electromagnetic waves and wave propagation.
Grade Mode: Normal Grading Mode

PHY 608 Statistical Mechanics **4 Credit hours**
The course introduces thermodynamics and statistical mechanics to graduate students of physics and other science and engineering disciplines as two complimentary approaches to study physical properties of systems in equilibrium.
Grade Mode: Normal Grading Mode

PHY 610 Special and Gen Relativity **3 Credit hours**
General relativity, the classical theory of one of the four fundamental forces, is not a standard course offer. This course of Special and General Relativity intends to fill this gap by introducing the key concepts that lead to a revolution in our understanding of space and time. The students will learn about spacetime curvature, metrics, geodesics, black holes, gravitational waves, and cosmology.
Grade Mode: Normal Grading Mode

PHY 620 Modern Astrophysics I **3 Credit hours**
Modern Astrophysics is firmly grounded in the fundamental principles of physics, and will offer students the opportunity to use the physics they have learned in understanding the nature of the universe. This course provides a graduate-level introduction to astrophysics, focusing on stellar structure and evolution.
Grade Mode: Normal Grading Mode

PHY 625 Condensed Matter Physics **3 Credit hours**
This course studies complex phenomena that occur in solids and quantum liquids, and exposes the students to some theoretical tools used to describe the basic interactions behind these phenomena.
Grade Mode: Normal Grading Mode

PHY 630 Classical Mechanics **4 Credit hours**
Study of variational principes and Lagrange's equations, the two-body central force problem, the kinematics and dynamics of rigid-body motion, Hamilton equations of motion, canonical transformations, Hamilton-Jacobi theory, and small oscillations.
Grade Mode: Normal Grading Mode

PHY 631 Seminar **1 Credit hour**
Grade Mode: Normal Grading Mode

PHY 632 Seminar **1 Credit hour**
Grade Mode: Normal Grading Mode

PHY 640 Fundamentals of Physics **4 Credit hours**
A course in fundamental concepts of physics. Subject content varies. Designed primarily to strengthen conceptual understanding of teachers.
Grade Mode: Normal Grading Mode

PHY 642 Adv Quantum Mechanics **4 Credit hours**
This course covers advanced topics of quantum mechanics at the graduate level. Topics include fundamental issues, approximation methods and applications.
Pre-req: PHY 630 (may be taken concurrently) with a minimum grade of D.
Concurrent PR: PHY 630
Grade Mode: Normal Grading Mode

PHY 645 Methods of Math. Physics **4 Credit hours**
This course will review and develop theories of real and complex analysis, group theory, tensors, special functions, differential and integral transforms, emphasizing their application to electrodynamics, quantum statistical mechanics, etc.
Grade Mode: Normal Grading Mode

PHY 661 Special Topics **1-3 Credit hours**
Grade Mode: Normal Grading Mode

PHY 662 Special Topics **1-3 Credit hours**
Grade Mode: Normal Grading Mode

PHY 682 Thesis Research **1-6 Credit hours**
Attributes: Onsite Learning Experience, Thesis
Grade Mode: Normal Grading Mode

PHY 685 Independent Study **1-4 Credit hours**
Advanced Independent Study in Physics.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

PHY 686 Independent Study **1-4 Credit hours**
Advanced Independent Study in Physics.
Grade Mode: Normal Grading Mode

Physiology (PHS)

PHS 626 Neurophysiology I **1 Credit hour**
To study and understand the basic functional principles of the cells of the nervous system, and organization of cells into functional systems.
Pre-req: BMS 600.
Grade Mode: Normal Grading Mode

PHS 627 Neurophysiology II **1 Credit hour**
To study and understand the major functional systems of the brain.
Pre-req: PHS 626.
Grade Mode: Normal Grading Mode

PHS 628 Mammalian Neurophysiology **2 Credit hours**
This coures is a basic introductory, survey course covering neurophysiology from sub-cellular level to behavioral level.
Grade Mode: Normal Grading Mode

PHS 629 Mammalian Physiology **6 Credit hours**
A study of mammalian systems including pulmonary, renal, cardiovascular, gastrointestinal, endocrinological and nervous systems. Emphasis will be placed on homeostatic mechanisms and on experimental approaches to physiology.
Grade Mode: Normal Grading Mode

PHS 630 Experimental Physiology **1 Credit hour**
A laboratory course in mammalian physiology which includes instruction in surgical preparation, bioinstrumentation technique and open-chest surgery in dogs.
Grade Mode: Normal Grading Mode

PHS 631 Physiology Practicum **2 Credit hours**
Experience in laboratory instruction of medical and graduate students in the mammalian physiology laboratory.
Grade Mode: Normal Grading Mode

PHS 632 Physiology of Sleep **1 Credit hour**
Detailed examination of changes in EEG, EMG, cardiorespiratory function and ocular motility during sleep.
Pre-req: PHS 629.
Grade Mode: Normal Grading Mode

PHS 634 Advanced Neurophysiology **1-2 Credit hours**
Bioelectric potentials. A.C. and D.C. potentials, transcortical potentials,E.E.G., comeo-retinal potential, bloodCSF potential, etc.
Pre-req: PHS 629.
Grade Mode: Normal Grading Mode

PHS 638 Adv Cardiovascular Phys **1-2 Credit hours**
Pre-req: PHS 629.
Grade Mode: Normal Grading Mode

PHS 639 Neurophys Res Tech **3 Credit hours**
Class participants will be exposed to state-of-the-art neurophysiology research techniques while in the laboratories of neurophysiology faculty.
Grade Mode: Credit/No Credit Grade Only

PHS 661 Endocrinology **3 Credit hours**
An in depth study of the endocrine system with special emphsis on the role of experimentation in the development of concepts in endocrine physiology (PR: BMS 600 or Equivalent; Permission)
Pre-req: BMS 600.
Grade Mode: Normal Grading Mode

PHS 666 Physiology of the Cell **3 Credit hours**
An in-depth study of selected specific topics in cell physiology.
Pre-req: BMS 600.
Grade Mode: Normal Grading Mode

PHS 667 Experimental Appr to Phys **4 Credit hours**
This course introduces students to the fundamental principles and research underlying the normal functioning of the cardiovascular, respiratory, renal, endocrine, reproductive, nervous, and gastrointestinal systems.
Grade Mode: Normal Grading Mode

PHS 675 Special Topics **1-4 Credit hours**
Present course material on special areas of research or topics which are not routinely covered in existing courses.
Grade Mode: Normal Grading Mode

PHS 676 Special Topics **1-4 Credit hours**
Present course material on special areas of research or topics which are not routinely covered in existing courses.
Grade Mode: Normal Grading Mode

PHS 677 Special Topics **1-4 Credit hours**
Present course material on special areas of research or topics which are not routinely covered in existing courses.
Grade Mode: Normal Grading Mode

PHS 701 Physiology **8 Credit hours**
Grade Mode: Normal Grading Mode

PHS 780 Elective Special Projects **1 Credit hour**
Grade Mode: Normal Grading Mode

PHS 785 Independent Study **1-15 Credit hours**
Independent Study in Physiology is designed to allow the student the opportunity to work with a faculty member on a topic of special interest.
Grade Mode: Credit/No Credit Grade Only

PHS 820 Medical Physiology **1-18 Credit hours**
Grade Mode: Normal Grading Mode

Political Science (PSC)

PSC 511 Latin American Politics **3 Credit hours**
This course studies Latin American politics by sectors, such as landed elites, the military, the church, etc. Various styles of governance are considered. Case examples illustrate concetps discussed.
Grade Mode: Normal Grading Mode

PSC 544 Dictatorship & Democracy **3 Credit hours**
An investigation of the strengths of democracies relative to dictatorships with regard to such dimensions as economic growth, income equality, health and welfare of citizens and war reduction.
Grade Mode: Normal Grading Mode

PSC 582 Special Topics **1-4 Credit hours**
To offer a course on some special topic which is not adequately treated in the regular course offerings.
Grade Mode: Normal Grading Mode

PSC 588 Independent Study **1-4 Credit hours**
These numbers are reserved for tutorials, directed and independent research, problem reports, etc.
Grade Mode: Normal Grading Mode

PSC 601 Reading-Political Science **2-3 Credit hours**
Readings to meet the needs and interests of individual students.
Grade Mode: Normal Grading Mode

PSC 675 Legislative Internship **6 Credit hours**
Intensive work experience in the West Virginia legislative processes coupled with a seminar involving directed reading and the preparation of a paper. This is a cooperative program with West Virginia University and the Office of Legislative Services with only selected students participating.
Attributes: No Textbook Required, Onsite Learning Experience
Grade Mode: Normal Grading Mode

PSC 676 Internship / Practicum **3-6 Credit hours**
Supervised internship / practicum where students apply public administration principles in an approved field setting.
Attributes: No Textbook Required, Onsite Learning Experience
Grade Mode: Credit/No Credit Grade Only

Psychiatry (PSI)

PSI 701 Ethics and Behavioral Medicine **3 Credit hours**
Grade Mode: Normal Grading Mode

PSI 710 Human Sexuality **1 Credit hour**
Grade Mode: Normal Grading Mode

PSI 713 Psych Clerkship-Kellogg/RPAP **1-8 Credit hours**
Comprehensive coverage at the introductory level of psychiatry (in the Kellogg curriculum). The reduction in credit from standard clerkship to accommodate Kellogg.
Grade Mode: Normal Grading Mode

PSI 721 Psychopathology **2 Credit hours**
Grade Mode: Normal Grading Mode

PSI 730 Psychiatry Clerkship **8 Credit hours**
Grade Mode: Normal Grading Mode

PSI 742 Psychiatry Clerkship **1-18 Credit hours**
Grade Mode: Pass/Fail Grading Mode

PSI 780 Elective Special Projects **1 Credit hour**
Grade Mode: Normal Grading Mode

PSI 785 Independent Study **1-15 Credit hours**
Grade Mode: Credit/No Credit Grade Only

PSI 801 Child/Adolescent Psychia **1-18 Credit hours**
Grade Mode: Pass/Fail Grading Mode

PSI 802 Inpatient Psychiatry **1-18 Credit hours**
Grade Mode: Pass/Fail Grading Mode

PSI 803 Geriatric Psychiatry **1-18 Credit hours**
Grade Mode: Pass/Fail Grading Mode

PSI 804 Psychiatric Consultation **1-18 Credit hours**
Grade Mode: Pass/Fail Grading Mode

PSI 805 Substance Abuse **1-18 Credit hours**
Grade Mode: Normal Grading Mode

PSI 806 Neuro-developmental Psychiatry **1-18 Credit hours**
Grade Mode: Pass/Fail Grading Mode

PSI 807 Emergency Psychiatry **1-18 Credit hours**
Grade Mode: Normal Grading Mode

PSI 811 Psychiatry-Family Therapy **1-18 Credit hours**
Grade Mode: Normal Grading Mode

PSI 812 Psychiatry-Rural Health **1-18 Credit hours**
Grade Mode: Normal Grading Mode

PSI 815 Mgt of Terminal Illness **1-18 Credit hours**
The primary objective of this elective will be for a student to obtain hands-on, intensive, and well-supervised experience in the management of end-of-life situations involving patients, family members and other health care providers.
Grade Mode: Normal Grading Mode

PSI 816 Psychiatry-Human Behavior **4-6 Credit hours**
Grade Mode: Pass/Fail Grading Mode

PSI 825 Psychiatry Family Pract **1-18 Credit hours**
Grade Mode: Normal Grading Mode

PSI 827 Psychiatry Sub-I **4-18 Credit hours**
Grade Mode: Pass/Fail Grading Mode

PSI 850 Clinical Adm in Psychiatry **1-18 Credit hours**
Fourth year elective with the Clinical Director of a 90-bed psychiatric facility to acquaint student with clinical/ administrative issues, creative problem solving and strategic plans.
Grade Mode: Normal Grading Mode

PSI 858 In-State Externship in Psych **1-18 Credit hours**
Clinical course to allow students to complete clinical training at approved sites within the State of West Virginia that is no a MUSOM site.
Grade Mode: Pass/Fail Grading Mode

PSI 868 PSI Externship **1-18 Credit hours**
Out-of-State Externship
Grade Mode: Pass/Fail Grading Mode

PSI 888 Rural Health Initia Ele Alter **1-18 Credit hours**
Acquaints students with issues of rural community health and wellness. Provides students with knowledge, attitudes and skills to participate in a changing health care environment.
Grade Mode: Normal Grading Mode

PSI 899 Clerkship in Psychiatry **1-18 Credit hours**
Grade Mode: Normal Grading Mode

Psychology (PSY)

PSY 502 Adv Social Psychology **3 Credit hours**
Advanced study of selected topics in social psychology.
Grade Mode: Normal Grading Mode

PSY 503 Applied Social Psychology **3 Credit hours**
Examination of the applications of social psychological methods, theories, principles and research findings to the understanding of social problems.
Grade Mode: Normal Grading Mode

PSY 505 Sports Psychology **3 Credit hours**
An examination of theory, research, and application of psychological principles related to sport and exercise.
Grade Mode: Normal Grading Mode

PSY 506 Psychometrics **3 Credit hours**
Mental test theory and applications.
Grade Mode: Normal Grading Mode

PSY 508 Abnormal Psychology **3 Credit hours**
Study of the nature, causes and treatment of maladaptive human behavior.
Grade Mode: Normal Grading Mode

PSY 515 Child Psychology **3 Credit hours**
Grade Mode: Normal Grading Mode

PSY 516 Psychology of Learning **3 Credit hours**
Critical study of the major theories of learning and related research.
Grade Mode: Normal Grading Mode

PSY 517 Inter Behavioral Stat **3 Credit hours**
An intermediate level presentation of descriptive and inferential statistics as applied in behavioral research. 2 lec-2 lab.
Grade Mode: Normal Grading Mode

PSY 518 Psychology of Personnel **3 Credit hours**
Psychological principles and methods applied to functions in personnel administration.
Grade Mode: Normal Grading Mode

PSY 519 Theories of Personality **3 Credit hours**
Grade Mode: Normal Grading Mode

PSY 520 Intro to I-O Psychology **3 Credit hours**
A systematic study of the application of psychological methods and principles in business and industry. Emphasis is on research methods, motivation, training, leadership, personnel selection, employee safety, and job satisfaction.
Grade Mode: Normal Grading Mode

PSY 526 Cross Cultural Psychology **3 Credit hours**
Emic and etic cultural concepts are considered from an American (subcultural) and international perspective. Cultural influences on healing, health and service are covered.
Grade Mode: Normal Grading Mode

PSY 527 Computer Applic in PSY **3 Credit hours**
An introduction to computer applications in psychology, emphasizing data collection, management, organization, analysis and reporting.
Grade Mode: Normal Grading Mode

PSY 533 Curr Models of Psychotherapy **3 Credit hours**
Introduction to theoretical models and related therapeutic strategies which influence the practice of modern psychotherapy.
Grade Mode: Normal Grading Mode

PSY 540 Physiological Psychology **3 Credit hours**
The relationships between physiological functions and biochemical processes and behavior.
Grade Mode: Normal Grading Mode

PSY 543 Health Psychology **3 Credit hours**
Introduction to the contribution of psychology to the promotion and maintenance of health and the prevention and treatment of illness.
Grade Mode: Normal Grading Mode

PSY 560 History & Systems Psych **3 Credit hours**
Overview of Psychology from historical perspective.
Grade Mode: Normal Grading Mode

PSY 565 Love/Intimacy and Attachment **3 Credit hours**
Examination of how childhood attachments, bonds, and relationships affect and influence adult perspectives on love, expectations, intimacy, fidelity, and commitment.
Grade Mode: Normal Grading Mode

PSY 575 Race Culture and Dev Processes **3 Credit hours**
Examine the roles that race, ethnicity, and culture play in the physical, cognitive, intellectual, and social developmental processes of people of color.
Grade Mode: Normal Grading Mode

PSY 580 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

PSY 581 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

PSY 582 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

PSY 583 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

PSY 585 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

PSY 586 Independent Study **1-4 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

PSY 587 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

PSY 588 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

PSY 600 Teaching Psychology **3 Credit hours**
Grade Mode: Normal Grading Mode

PSY 605 Ethic Legal & Prof Issue Psych **3 Credit hours**
Introduction to ethical standards and issues, laws which influence psychological practice and current challenges facing psychology as a profession.
Grade Mode: Normal Grading Mode

PSY 606 Adv Social Psychology **3 Credit hours**
Advanced study of selected topics in social psychology.
Grade Mode: Normal Grading Mode

PSY 608 Differ Diagnosis & Treat Plan **3 Credit hours**
Grade Mode: Normal Grading Mode

PSY 610 Assessment of Adults **3 Credit hours**
Principles and methods of psychological assessment for adults. Key issues in test construction and training in report writing. (PR: Admission to Clinical Psychology CR: PSY 620)
Grade Mode: Normal Grading Mode

PSY 611 Assessment of Children **3 Credit hours**
Principles and methods of psychological assessment for children. Key issues in test construction and training and report writing. (PR: PSY 610, CR: PSY 621)
Pre-req: PSY 621 (may be taken concurrently).
Concurrent PR: PSY 621
Grade Mode: Normal Grading Mode

PSY 615 Adv Developmental Psychology **3 Credit hours**
Interpretation, evaluation, and selection of tests of ability, aptitude, attainment, interest and personality.
Grade Mode: Normal Grading Mode

PSY 616 Human Memory/Inform Proc **3 Credit hours**
Theory and research relating to human learning, memory and decision processes.
Grade Mode: Normal Grading Mode

PSY 617 App Psy: Aging in Appalachia **3 Credit hours**
Application of research in the biopsychosocial determinants of healthy aging, clinical concerns of senior adults, and evidence-based interventions, presented in the context of aging in Appalachia and rural areas. (PR: Graduate status)
Grade Mode: Normal Grading Mode

PSY 618 Psychopharmacology **3 Credit hours**
Survey of psychotropic drug substances with emphasis on neuropharmacological bases of drug action, current research methods and therapeutic implications.
Grade Mode: Normal Grading Mode

PSY 619 Psychotherapy with Children **3 Credit hours**
Grade Mode: Normal Grading Mode

PSY 620 Assessment Adults Practicum **3 Credit hours**
Students will be expected to administer, score, interpret and write reports for a battery of tests used with adults.
Pre-req: PSY 610 (may be taken concurrently).
Concurrent PR: PSY 610
Attributes: Onsite Learning Experience
Grade Mode: Credit/No Credit Grade Only

PSY 621 Assessment Children Practicum **3 Credit hours**
Integrated, battery-based assessment of children with emphases on test selection and construction, validity, reliability, special populations, cultural, and individual differences, and preparation of professional reports.
Pre-req: PSY 611 (may be taken concurrently).
Concurrent PR: PSY 611
Attributes: Onsite Learning Experience
Grade Mode: Credit/No Credit Grade Only

PSY 622 Research Sem in Psych **3 Credit hours**
This seminar covers advanced topics in research design and methodology. Students will explore various methods available to address specific research questions in the behavioral sciences.
Pre-req: PSY 517 with a minimum grade of D.
Grade Mode: Normal Grading Mode

PSY 623 Experimental Design **3 Credit hours**
An introduction to the design and interpretation of behavioral research. Emphasis is upon tests of significance and assumptions governing their application.
Pre-req: PSY 517 or (PSYC 521 or PSYC 521G).
Grade Mode: Normal Grading Mode

PSY 624 Multivariate Analysis **3 Credit hours**
Multivariate analysis in behavioral research including multiple regression, analysis of variance, canonical correlation, and principal components and factor analysis.
Pre-req: PSY 623 or PSY 652.
Grade Mode: Normal Grading Mode

PSY 627 Social Psych Bases of Groups **3 Credit hours**
Grade Mode: Normal Grading Mode

PSY 630 Adult Diagnosis & Therapy **3 Credit hours**
Current diagnostic criteria for adult psychopathology, including prevalence, epidemiology and socio-cultural mileu; in-depth presentation of psychtherapy with adults, including psychodynamic, gestalt, crisis and other modalities. (PR: Admission to clinical psychology graduate program; instructor permission.)
Grade Mode: Normal Grading Mode

PSY 632 Behavior Therapy **3 Credit hours**
Principles and techniques of the behavior therapies, and theories that underlie the behavioral approach.
Grade Mode: Normal Grading Mode

PSY 633 Individual Psychotherapy **3 Credit hours**
A survey of the basic skills and techniques used in treating various forms of psychopathology. (Admission to Clinical Psychology area of emphasis or Psy.D. program required.)
Grade Mode: Normal Grading Mode

PSY 634 Group Therapy **3 Credit hours**
Different types of group psychotherapy as appropriate for various problems and populations; intensive experience in at least two methods.
Pre-req: PSY 633.
Grade Mode: Normal Grading Mode

PSY 635 Child/Fam Diagn Therapy **3 Credit hours**
The course covers psychopathology, diagnosis and treatment of the major child and family disorders including childhood anxiety, depression, deliquency, parent-adolescent conflict, eating disorders,and others.
Grade Mode: Normal Grading Mode

PSY 650 Performance Appraisal **3 Credit hours**
The course will offer students a research-based investigation of the performance evaluation process within work organizations. Emphasis is given to human rater x ratee x appraisal system features interactions. (PR: Permission of the instructor.)
Pre-req: PSY 518 or MGT 620G.
Grade Mode: Normal Grading Mode

PSY 651 Adv Nonparametric Statistics **3 Credit hours**
Pre-req: PSY 517.
Grade Mode: Normal Grading Mode

PSY 652 Advanced Regression Techniques **3 Credit hours**
Pre-req: PSY 517 or PSYC 521G.
Grade Mode: Normal Grading Mode

PSY 654 Single Subject Analysis **3 Credit hours**
Pre-req: PSY 517.
Grade Mode: Normal Grading Mode

PSY 656 Research in Psychology **1-3 Credit hours**
Attributes: Thesis
Grade Mode: Normal Grading Mode

PSY 657 Research in Psychology **1-3 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

PSY 670 Clinical Practicum **3 Credit hours**
Supervised application of principles of therapy and evaluation in a clinical setting. CR/NC grading.
Pre-req: PSY 608 or PSYC 608G and PSY 633.
Attributes: Onsite Learning Experience
Grade Mode: Credit/No Credit Grade Only

PSY 671 Clinical Practicum **3 Credit hours**
Supervised application of principles of therapy and evaluation in a clincal setting. CR/NC grading.
Pre-req: PSY 608 with a minimum grade of C and PSY 633 with a minimum grade of C.
Attributes: No Textbook Required, Onsite Learning Experience
Grade Mode: Credit/No Credit Grade Only

PSY 672 Cognition and Emotion **3 Credit hours**
Theory and research findings in learning/memory, attention, problem solving, decision making, concept formation and perception. Emphasis will be on the cognitive and emotional factors that influence learning/memory and thinking.
Grade Mode: Normal Grading Mode

PSY 674 Biological Bases of Behavior **3 Credit hours**
Grade Mode: Normal Grading Mode

PSY 675 Pract Teach PSY **1-3 Credit hours**
Supervised teaching experience in introductory psychology, including development of lectures, classroom demonstrations, quizes, tests, extra credit activities and syllabi.
Pre-req: PSY 600.
Attributes: No Textbook Required
Grade Mode: Credit/No Credit Grade Only

PSY 676 Pract Teach PSY **1-3 Credit hours**
Supervised teaching experience in introductory psychology, including development of lectures, classroom demonstrations, quizes, tests, extra credit activities and syllabi.
Pre-req: PSY 600.
Grade Mode: Credit/No Credit Grade Only

PSY 680 Clinical Internship **1-6 Credit hours**
Placement in an approved mental health setting for minimum of 400 hours. Supervised by on-site personnel in addition to psychology faculty.
Pre-req: PSY 671 with a minimum grade of C or PSYC 725G with a minimum grade of C.
Attributes: No Textbook Required, Onsite Learning Experience
Grade Mode: Credit/No Credit Grade Only

PSY 681 Thesis **1-6 Credit hours**
Pre-req: PSY 517 with a minimum grade of C.
Attributes: No Textbook Required, Thesis
Grade Mode: Credit/No Credit Grade Only

PSY 683 I-O Psych Internship **3 Credit hours**
This course will offer students applied observational/ research experience in Personnel/Human Resource Departments under the supervision of professionals within the fields of Industrial-Organizational Psychology and Human Resources. (PR: Psy 5l8 or PSY 520 and Permission.)
Pre-req: PSY 518 and PSY 604 and PSY 624.
Attributes: Onsite Learning Experience
Grade Mode: Credit/No Credit Grade Only

PSY 685 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

PSY 686 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

PSY 687 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

PSY 688 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

PSY 690 Seminar **1-3 Credit hours**
Reports on current problems and literature in psychology and related fields; professional ethics.
Grade Mode: Normal Grading Mode

PSY 691 Seminar **1-3 Credit hours**
Reports on current problems and literature in psychology and related fields; professional ethics.
Grade Mode: Normal Grading Mode

PSY 692 Seminar **1-3 Credit hours**
Reports on current problems and literature in psychology and related fields; professional ethics.
Grade Mode: Normal Grading Mode

PSY 693 Seminar **1-3 Credit hours**
Reports on current problems and literature in psychology and related fields; professional ethics.
Grade Mode: Normal Grading Mode

PSY 694 Seminar **1-3 Credit hours**
Reports on current problems and literature in psychology and related fields; professional ethics.
Grade Mode: Normal Grading Mode

PSY 695 Seminar **1-3 Credit hours**
Reports on current problems and literature in psychology and related fields; professional ethics.
Grade Mode: Normal Grading Mode

PSY 697 Sem: Adv Res in Psychology **3 Credit hours**
This seminar will provide advanced coverage of topics related to the design of research in psychology. Students in the seminar will gain experience planning an independent research project.
Pre-req: PSY 517 or PSY 623.
Grade Mode: Normal Grading Mode

PSY 706 Integrated Assessment I **3 Credit hours**
Covers integrated, battery-based assessment of adults with emphasis on test selection and construction, validity, reliability, special populations, cultural and individual differences, and preparation of professional reports.
Pre-req: PSY 707 (may be taken concurrently).
Concurrent PR: PSY 707
Grade Mode: Normal Grading Mode

PSY 707 Int Assessment Pract I **3 Credit hours**
Covers instrument administration for the psychological assessment of adults; includes multiple diagnostic procedures.
Pre-req: PSY 706 (may be taken concurrently).
Concurrent PR: PSY 706
Grade Mode: Credit/No Credit Grade Only

PSY 708 Integrated Assessment II **3 Credit hours**
Covers integrated, battery-based assessment of children with emphasis on test selection and construction, validity, reliability, special populations, cultural and individual differences, and preparation of professional reports.
Grade Mode: Normal Grading Mode

PSY 709 Int Assessment Pract II **3 Credit hours**
Covers instrument administration for the psychological asesssment of children; includes multiple diagnostic procedures.
Grade Mode: Credit/No Credit Grade Only

PSY 710 Adv Psych Assessment **3 Credit hours**
This course will offer coverage in advanced topics in psychological assessment. These topics will include geriatric assessment, assessment of addictions, neuropsychological screening, forensic assessment, and crosscultural assessment issues. (PR: Admission to Psy.D. program or permission of instructor.)
Grade Mode: Normal Grading Mode

PSY 712 Geropsychology **3 Credit hours**
An examination of normal and abnormal processes of aging, including common social, cognitive, health, and psychopathological problems, will be studied. Issues of community resources, assessment and therapy will be discussed. (PR: Admission to Psy.D. program or permission of instructor)
Grade Mode: Normal Grading Mode

PSY 713 Adv Assess Practicum **3 Credit hours**
This experience is designed to increase proficiency in psychological assessment through client experience. Students are supervised by a licensed psychologist in the campus training clinic.
Attributes: Onsite Learning Experience
Grade Mode: Credit/No Credit Grade Only

PSY 714 Adv Assess Practicum **3 Credit hours**
This experience is designed to increase proficiency in psychological assessment through client experience. Students are supervised by a licensed psychologist in the campus training clinic.
Attributes: Onsite Learning Experience
Grade Mode: Credit/No Credit Grade Only

PSY 717 Adv Quantitative Analysis **3 Credit hours**
An advanced level presentation of inferential statistics as applied in behavioral research as a part of experimental design and literature review.
Pre-req: PSY 517 or PSY 723.
Grade Mode: Normal Grading Mode

PSY 723 Clin Res Meth in Psych **3 Credit hours**
This course will provide an overview in basic research methods and ethical issues prevelant in the field of clinical psychology. Use of research to document clinical outcomes will also be addressed. Pre: Admission to Psy.D. Program or permission.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

PSY 726 Adv St Cross Cult Psych **3 Credit hours**
Comprehensive, broad scope course covering research topics, definitions and methodology; behavioural health needs of minorities; cultural perspectives on health/healing/wellness; international applications of psychological theory/practice.
Grade Mode: Normal Grading Mode

PSY 731 Psychotherapy I **3 Credit hours**
An introduction to theories underlying psychodynamic, cognitive, and behavior psychotherapies. Content will focus on basic concepts, theories of these models, and current empirical evaluation and evidence-based practice of these therapies. (PR: Admission to Psy.D. program or permission of instructor)
Grade Mode: Normal Grading Mode

PSY 732 Psychotherapy II **3 Credit hours**
An additional overview of the theories underlying psychodynamic, cognitive, and behavior psychotherapies. Content will focus on intervention and treatment planning, including current empirical evaluation and evidence-based practice of these therapies. (PR: Admission to Psy.D. program or permission of instructor)
Grade Mode: Normal Grading Mode

PSY 733 Psychotherapy III **3 Credit hours**
Ad advanced overview of the theories underlying psychodynamic, cognitive, and behavior psychotherapies with an emphasis on common elements and integration of these approaches and alternative or innovative models. (PR: Admission to Psy.D. program or permission of instructor)
Grade Mode: Normal Grading Mode

PSY 750 Clinical Health Psychology **3 Credit hours**
This course will provide an overview of common medical problems, and their related psychological issues. Adjustment issues, health behavior, family impacts, and medical compliance will also be discussed. (PR: Admission to Psy.D. program or permission of instructor.)
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

PSY 752 Rural Community Psych I **3 Credit hours**
This course presents an overview of the philosophy, issues, methods, and interventions of community psychology practice. Students will complete field projects as part of the experience. (PR: Admission to Psy.D. program of instructor.)
Grade Mode: Normal Grading Mode

PSY 753 Supervision in Clin Psy **3 Credit hours**
Review of current supervision research and theory combined with opportunities for doctoral students to gain supervised experience in clinical supervision. (PR: Admission to Psy D program or permission of instructor.
Grade Mode: Normal Grading Mode

PSY 755 Rural Community Psych II **3 Credit hours**
This course prepares students to undertake supervised practice in rural areas, including employment of appropriate research techniques and the design of culturally and economically effective interventions. (PR: Admission to Psy.D program or permission of instructor)
Grade Mode: Normal Grading Mode

PSY 756 Independent Study **1-4 Credit hours**
This is a doctoral level course which will permit students to explore topics in-depth that are not part of the regular curriculum. Faculty supervision is required.
Grade Mode: Normal Grading Mode

PSY 764 Adv Human Sexuality **3 Credit hours**
An examination of the knowledge and theory which explain important areas of sexual behavior. Topics emphasize sexual orientations, sexual dysfunctions, gender identity, paraphilias, compulsive and coercive behavior. PR: Admission to Psy.D. program or permission of instructor.)
Grade Mode: Normal Grading Mode

PSY 768 Pract in Clinical Psychology **3 Credit hours**
Supervised application of principles of therapy and evaluation in a clinical setting. (PR: PSY 671 or Consent)
Pre-req: PSY 671 with a minimum grade of C.
Grade Mode: Credit/No Credit Grade Only

PSY 769 Pract in Clinical Psychology **3 Credit hours**
Supervised application of principles of therapy and evaluation in a clinical setting. CR/NC grading.
Pre-req: PSY 671 with a minimum grade of C.
Grade Mode: Credit/No Credit Grade Only

PSY 770 Adv Practicum in Clin Psy **3 Credit hours**
Students provide supervised clinical services at an approved field site. Pr: Admission to Psy.D. Completion of PSY 670-671 and Permission.
Attributes: Onsite Learning Experience
Grade Mode: Credit/No Credit Grade Only

PSY 771 Adv Practicum in Clin Psy **3 Credit hours**
Students provide supervised clinical services at an approved field site. Pre: Admission to Psy.D Completion of PSY 670-671 and Permission.
Attributes: No Textbook Required, Onsite Learning Experience
Grade Mode: Credit/No Credit Grade Only

PSY 772 Rural Pract I **3 Credit hours**
Supervised two semester sequence providing field experience in rural mental health settings. (PR: PSY 755; 752; 770; 771)
Pre-req: PSY 770 and PSY 771.
Grade Mode: Credit/No Credit Grade Only

PSY 773 Rural Practicum II **3 Credit hours**
Supervised two semester sequence providing field experience in rural mental health settings. (PR: PSY 755; 752; 770; 771)
Attributes: No Textbook Required, Onsite Learning Experience
Grade Mode: Credit/No Credit Grade Only

PSY 780 Pre-Doctoral Internship **1-9 Credit hours**
Culminating training experience within the Psy. D. program. Students complete full-time, full year placement (or 2 year equivialent) at a APA/APPIC accredited site or one approved by clinical faculty.
Attributes: Onsite Learning Experience
Grade Mode: Credit/No Credit Grade Only

PSY 781 Pre-doctoral Internship **1-9 Credit hours**
Culminating training experience within the Psy. D. program. Students complete full-time, full year placement (or 2 year equivalent) at an APA/APPIC accredited site or one approved by clinical faculty.
Attributes: No Textbook Required, Onsite Learning Experience
Grade Mode: Credit/No Credit Grade Only

PSY 782 Pre-doctoral Internship **1-9 Credit hours**
Culminating training experience within the Psy. D. program. Students complete full-time, full year placement (or 2 year equivalent) at an APA/APPIC accredited site or one approved by clinical faculty.
Attributes: Onsite Learning Experience
Grade Mode: Credit/No Credit Grade Only

PSY 783 Pre-Doctoral Internship **1-9 Credit hours**
Culminating training experience within the Psy. D. program. Students complete full-time, full year placement (or 2 year equivalent) at an APA/APPIC accredited site or one approved by clinical faculty.
Attributes: Onsite Learning Experience
Grade Mode: Credit/No Credit Grade Only

PSY 790 Sem: Clinical Psychology **1-3 Credit hours**
Seminars on current topics and issues of interest to clinical psychologists. Topics will change for each semester. Psy D program students are required to enroll for six semesters of seminars; check with advisor for details.
Grade Mode: Normal Grading Mode

PSY 791 Sem: Clinical Psychology **1-3 Credit hours**
Seminars on current topics and issues of interest to clinical psychologists. Topics will change for each semester. Psy D program students are required to enroll for six semesters of seminars; check with advisor for details.
Grade Mode: Normal Grading Mode

PSY 792 Sem: Clinical Psychology **1-3 Credit hours**
Seminars on current topics and issues of interest to clinical psychologists. Topics will change for each semester. Psy D program students are required to enroll for six semesters of seminars; check with advisor for details.
Grade Mode: Normal Grading Mode

PSY 793 Sem: Clinical Psychology **1-3 Credit hours**
Seminars on current topics and issues of interest to clinical psychologists. Topics will change for each semester. Psy D program students are required to enroll for six semesters of seminars; check with advisor for details.
Grade Mode: Normal Grading Mode

PSY 794 Sem: Clinical PSY **1-3 Credit hours**
Seminars on current topics and issues of interest to clinical psychologists. Topics will change for each semester. Psy D program students are required to enroll for six semesters of seminars; check with advisor for details.
Grade Mode: Normal Grading Mode

PSY 795 Sem:Clinical Psychology **1-3 Credit hours**
Seminars on current topics and issues of interest to clinical psychologists. Topics will change for each semester. Psy D program students are required to enroll for six semesters of seminars; check with advisor for details.
Grade Mode: Normal Grading Mode

PSY 796 Sem: Clinical PSY **1-3 Credit hours**
Seminars on current topics and issues of interest to clinical psychologists. Topics will change for each semester. Psy D program students are required to enroll for six semesters of seminars: check with advisor for details.
Grade Mode: Normal Grading Mode

PSY 799 Doctoral Research **3-9 Credit hours**
Doctoral research project under the supervision of research committee and chair. (Prerequisites: Permission of Program)
Attributes: No Textbook Required
Grade Mode: Credit/No Credit Grade Only

Public Administration (PADM)

PADM 533 Public Policy Development **3 Credit hours**
An examination of alternative theoretical approaches to the study of policy and administration and their implications for the use of policy to shape administrative practice.
Grade Mode: Normal Grading Mode

PADM 552 Public Personnel **3 Credit hours**
Survey of Public Personnel Management with particular attention on various facets of the merit system concept. Psychological and human relations aspects of the work situation and supervisor-subordinate interaction emphasized.
Grade Mode: Normal Grading Mode

PADM 553 Public Finance Management **3 Credit hours**
Study of organization, administration, and accountability in the management of public funds, with emphasis on the political decision-making processes of budget formulation, representation, and execution.
Grade Mode: Normal Grading Mode

PADM 604 Data Driven Decision-Making **3 Credit hours**
Understanding data for effective decision-making. Explore methods of analysis, extract insights, and measure the impact of data-driven outcomes for organizations. Teaches technical skills for data gathering, management, and visualization.
Grade Mode: Normal Grading Mode

PADM 610 Strategic Resource Development **3 Credit hours**
Prepares students to secure and manage diverse funding streams for public and nonprofit sectors. Emphasizes grants, corporate sponsorships, and crowdfunding, with practice in grant writing, budgeting, and sustainable resource management.
Grade Mode: Normal Grading Mode

PADM 612 Public Sector Project Planning **3 Credit hours**
Introduces project management principles tailored to the public sector. Covers planning, scheduling, risk assessment, and stakeholder engagement, equipping students to initiate, organize, and implement effective projects in government and nonprofits.
Grade Mode: Normal Grading Mode

PADM 616 PADM Scope and Practice **3 Credit hours**
Capstone Experience: Navigate advanced topics in ethics, professional standards, and public management. Explore foundational theories, scope, and contemporary trends while drafting your MPA portfolio—a culmination of your academic MPA journey.
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

PADM 618 Debates in Public Admin **3 Credit hours**
Explore the complexities of public administration through critical examination and debates. Analyze emerging issues, dilemmas, and controversies to develop a nuanced understanding of contemporary management challenges and solutions.
Grade Mode: Normal Grading Mode

PADM 620 Comparative Public Admin **3 Credit hours**
This course will serve as an introduction to the comparative study of public administration. Students will be exposed to key areas of comparative research, including different methods used for analysis.
Grade Mode: Normal Grading Mode

PADM 621 City Management **3 Credit hours**
Exploration of policy challenges in metropolitan areas, examining structures, exploring alternatives, and evaluating outcomes. Gain insights into the multifaceted dynamics of city management and decision-making.
Grade Mode: Normal Grading Mode

PADM 625 Digital Governance & Policy **3 Credit hours**
Explores digital governance and public policy strategies, covering e-governance, data privacy, cybersecurity, citizen engagement, and digital equity. Prepares students to manage and innovate digital transformation in the public sector.
Grade Mode: Normal Grading Mode

PADM 627 Leaders and Innovators **3 Credit hours**
A comprehensive exploration of influential figures shaping U.S. public administration. It explores both prominent and lesser-known individuals and their intellectual contributions that define the American tradition of public administration.
Grade Mode: Normal Grading Mode

PADM 630 Ethics and Public Corruption **3 Credit hours**
Explores ethical principles and anti-corruption strategies in public management. Examines real-world cases to strengthen ethical decision-making, enhance accountability, and build transparency within government and nonprofit sectors.
Grade Mode: Normal Grading Mode

PADM 632 Nonprofit Management **3 Credit hours**
This course examines the principles and applied practices of nonprofit administration including theories of nonprofit formation, fundraising appeals, grant writing, executive leadership, marketing, budgeting, and strategic management.
Grade Mode: Normal Grading Mode

PADM 650 Administrative Law **3 Credit hours**
A study of the basic legal framework of administrative organization, including the problems of administrative discretion, rule making and adjudication, regulatory agencies, and administrative responsibility in the democratic state.
Grade Mode: Normal Grading Mode

PADM 654 Public Organizations **3 Credit hours**
A study of the contributions of the behavioral sciences to the study of organizations with stress on such concepts as leadership, motivation, power conflict, organizational design and decision making.
Grade Mode: Normal Grading Mode

PADM 660 Policy Analysis **3 Credit hours**
Development of theoretical and methodological skills in the analysis of public problems and the use of policy in problem solving.
Grade Mode: Normal Grading Mode

Public Health (PH)

PH 601 Intro Public Health **1 Credit hour**
An introduction to public health, including its foundation and history, principles and charactersitics of the discipline, professional roles, and individual career development and planning.
Grade Mode: Normal Grading Mode

PH 602 Public Health Biology **2 Credit hours**
Reviews biological bases of public health issues, including principles of disease development, including genetics, oncogenesis, and immunology. My be waived for those holding appropriate degress in biological or clinical sciences.
Grade Mode: Normal Grading Mode

PH 603 Intro to Rural Health **3 Credit hours**
Introduction to the particular issues of rural health, both domestically in the U.S. and internationally.
Grade Mode: Normal Grading Mode

PH 610 Intro to PH **2 Credit hours**
This course introduces students to the field of public health, how it works, and provides students with an opportunity to become familiar with essential concepts and resources in public health.
Grade Mode: Normal Grading Mode

PH 611 Epidemiology **3 Credit hours**
An introduction to basic concepts of including risk, study design, and analysis. Students apply these techniques to examine outbreaks, and evaluate preventives, diagnostics and treatments.
Grade Mode: Normal Grading Mode

PH 615 Health Sys Research **3 Credit hours**
An introduction to research in public health. Students examine prerequisites to successful study, as well as issues including funding, protocol design, data management, analysis, collaboration, and publication.
Co-req: PH 611, PH 621
Grade Mode: Normal Grading Mode

PH 616 Clinical Trials **3 Credit hours**
An examination of methods and issues in conducting clinical research. Includes critical aspects of study design, protocol development, recruitment and consent, and assessment of outcomes.
Pre-req: PH 611 and PH 621.
Grade Mode: Normal Grading Mode

PH 617 Meth Comp Study **3 Credit hours**
Examination of methods to determine the relative value of preventive, diagnostic and treatment alternatives for efficacy, cost, and practical application. Models include meta-analysis, comparative effectiveness trials, and data mining.
Pre-req: PH 611 and PH 621.
Grade Mode: Normal Grading Mode

PH 620 PH Issues **2 Credit hours**
Provide practical situations and contemporary issues in public health where students apply knowledge and theoretical concepts from coursework, strengthen existing skills/analytic thinking, and apply public health core competencies.
Grade Mode: Normal Grading Mode

PH 621 Statistical Methods I **3 Credit hours**
Introduction to statistical principles and methods. Includes descriptive and inferential statistics. Students will gain experience in the use of SPSS software, and in the interpretation and communication of statistical tests.
Grade Mode: Normal Grading Mode

PH 622 Statistical Methods II **2 Credit hours**
Examination of procedures including multiple linear and logistic regression, survival analysis, advanced non-parametric tests, repeated measures. Students gain experience in the use of SAS software for data management and analysis.
Pre-req: PH 621 with a minimum grade of C.
Grade Mode: Normal Grading Mode

PH 631 Environmental Health **2 Credit hours**
Introduction to environmental health principles, practices and policy. Students gain knowledge of the study, assessment, prevention and mitigation of exposures adversely affecting health.
Pre-req: PH 621 with a minimum grade of C.
Grade Mode: Normal Grading Mode

PH 641 Social Behavioral Aspects PH **2 Credit hours**
Examination of the application of social and behavioral sciences in public health, with emphasis on behavioral theory and related mechanisms for effecting individual and group changes in health status.
Grade Mode: Normal Grading Mode

PH 642 Health Communications **2 Credit hours**
Students learn methods to communicate health information effectively with disparate groups, develop communications strategies appropriate to diverse content and audiences, and gain skill in utilizing innovative interactive media.
Grade Mode: Normal Grading Mode

PH 650 MPH Practicum **6 Credit hours**
To provide students with opportunity to apply concepts and knowledge from the MPH curriculum and demonstrate competency in the public health practice setting.
Grade Mode: Credit/No Credit Grade Only

PH 651 Public Health Services **2 Credit hours**
An introduction to public health management, planning, implementation and evaluation. Students gain an integrated understanding of public health resources and their effective utilization to improve health.
Grade Mode: Normal Grading Mode

PH 653 Rural Health Addiction **2 Credit hours**
Introduction to the public health issues of, and interventions for, alcohol, tobacco, and drug addiction in the Appalachian region, with a special emphasis on opioid addiction and drug overdose.
Grade Mode: Normal Grading Mode

PH 655 Intro Health Policy **2 Credit hours**
An introduction to legal and policy foundations of U.S. health care, including its delivery, regulation and financing. Students develop skills in policy analysis and formulation, and learn principles of advocacy.
Grade Mode: Normal Grading Mode

PH 656 Topics in Health Policy **3 Credit hours**
A study of current issues of health policy, including major issues of health reform. Students apply their skills to formulate, package, and present their own health policy proposal.
Grade Mode: Normal Grading Mode

PH 657 Public Health Prog Eval **3 Credit hours**
This course deals with the application of research methods to evaluate public health programs and health services.
Pre-req: PH 621 with a minimum grade of D.
Grade Mode: Normal Grading Mode

PH 660 Environmental PH **3 Credit hours**
This graduate course provides students with a broad knowledge base of environmental public health science by addressing the significance of the environment on human health and wellness.
Grade Mode: Normal Grading Mode

PH 661 Chronic Disease **3 Credit hours**
Examination of major chronic diseases including mechanisms of development, risk, diagnosis and interventional strategies. Scope of the course includes cardiovascular, respiratory and neurodegenerative disorders, as well as diabetes and cancer.
Grade Mode: Normal Grading Mode

PH 662 Control of Inf Disease **3 Credit hours**
Examination of infectious diseases from a public health perspective, including strategies for prevention, treatment, control and eradication.
Pre-req: PH 611 with a minimum grade of C.
Grade Mode: Normal Grading Mode

PH 663 Health Behavior **3 Credit hours**
This course introduces students to the models of health behavior as it applies to public health.
Grade Mode: Normal Grading Mode

PH 671 Community Health **3 Credit hours**
Students learn how to facilitate programs and capacity building to enable communities to identify and address health issues. Students gain training in surveying and interviewing, and in health impact assessment.
Grade Mode: Normal Grading Mode

PH 672 Global Health **3 Credit hours**
An introduction to global health, including examination of disparities, development. The roles of governments, NGOs and citizens are examined; and students gain experience in issue analysis and developing health strategies.
Pre-req: PH 611.
Grade Mode: Normal Grading Mode

PH 678 Principles Epi in PH **3 Credit hours**
Basic epidemiology principles, concepts, and procedures useful in the surveillance and investigation of health-related states or events. It is designed for federal, state, local government and private sector health professionals responsible for disease control.
Grade Mode: Normal Grading Mode

PH 686 Health Information Technology **3 Credit hours**
An introduction to health information technology applications and issues, as well as the growing impact of advances in biotechnology on public health.
Grade Mode: Normal Grading Mode

PH 689 Community Outreach Health **3 Credit hours**
Applied and experiential course in designing and implementing a community health outreach project for the improvement of health in rural Appalachia.
Grade Mode: Normal Grading Mode

PH 691 Health Promo & Disease Prevent **3 Credit hours**
This graduate course provides students with a broad knowledge base of health promotion and disease prevention in public health.
Grade Mode: Normal Grading Mode

PH 692 Seminar **1 Credit hour**
Introduction to health science literature review and critique, as well as presentation of research and practicum reports.
Grade Mode: Normal Grading Mode

PH 693 Law and Ethics **3 Credit hours**
Introduction to the legal and ethical foundations of public health practice, including study of how individuals, practitioners, organizations and government address key issues.
Grade Mode: Normal Grading Mode

PH 694 Practicum **3 Credit hours**
Applied public health experience conducted under guidance of a faculty advisor and site preceptor, including a specific set of proposed project and learning objectives, and utilizing a community partner.
Pre-req: PH 611 with a minimum grade of C and PH 621 with a minimum grade of C and PH 641 with a minimum grade of C and PH 686 with a minimum grade of C and PH 693 with a minimum grade of C.
Attributes: No Textbook Required
Grade Mode: Credit/No Credit Grade Only

PH 695 Research **3 Credit hours**
Student research project, under guidance of the faculty advisor. Student project may include work towards thesis.
Pre-req: PH 611 and PH 621.
Attributes: Thesis
Grade Mode: Credit/No Credit Grade Only

PH 696 Capstone **3 Credit hours**
Course provides a structured and mentored process for students to produce written and oral components of a capstone project on a selected topic or question. (PR: Prior or current PH 694 or PH 695)
Pre-req: PH 694 (may be taken concurrently) with a minimum grade of C or PH 695 (may be taken concurrently) with a minimum grade of C.
Concurrent PR: PH 694 or PH 695
Grade Mode: Normal Grading Mode

Radiology (RAD)

RAD 780 Elective Special Projects **1-18 Credit hours**
Grade Mode: Normal Grading Mode

RAD 810 Radiology **1-18 Credit hours**
Grade Mode: Pass/Fail Grading Mode

RAD 811 Radiology **1-18 Credit hours**
Grade Mode: Normal Grading Mode

RAD 868 RAD Externship **1-18 Credit hours**
Out-of-State Externship
Grade Mode: Pass/Fail Grading Mode

RAD 888 Rural Radiology **1-18 Credit hours**
Grade Mode: Normal Grading Mode

RAD 898 Radiation Oncology **1-18 Credit hours**
Grade Mode: Normal Grading Mode

Religious Studies (RST)

RST 519 Rel Thought in West World **3 Credit hours**
An analysis of the major schools of religious thought as they have developed in the West.
Grade Mode: Normal Grading Mode

RST 550 Sociology of Religion **3 Credit hours**
An investigation into the nature of religion as a social phenomenon.
Grade Mode: Normal Grading Mode

RST 580 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

RST 581 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

RST 582 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

RST 583 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

RST 585 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

RST 586 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

RST 587 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

RST 588 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

RST 599 Humanities Seminar **3 Credit hours**
Grade Mode: Normal Grading Mode

Safety Technology (SFT)

SFT 536 Safety Ed for Elem Teachers **1 Credit hour**
Grade Mode: Normal Grading Mode

SFT 540 Indust Fire Protection **3 Credit hours**
An introductory course that explores the relationship between engineering and fire prevention. Topics include: water supplies, sprinkler systems, behavior of fire and materials, fire protection, fire extinguishers, and other systems.
Grade Mode: Normal Grading Mode

SFT 553 International Safety & Health **3 Credit hours**
The course covers the impact of globalization on worldwide safety and health programs, and a wide variety of safety and health programs for various countries and multi-national organizations.
Grade Mode: Normal Grading Mode

SFT 554 Indust Hygiene I **3 Credit hours**
Environmental protection as related to industrial settings. Air/water quality, noise and chemical pollution and hazardous material control.
Grade Mode: Normal Grading Mode

SFT 555 Environmental Prog/Sampling **3 Credit hours**
Grade Mode: Normal Grading Mode

SFT 558 Hospital Safety **3 Credit hours**
The course covers the various aspects of safety and health in professional health care services.
Grade Mode: Normal Grading Mode

SFT 561 Workers Compensation **3 Credit hours**
Introductory principles of workers' compensation and how it relates to the safety professional.
Grade Mode: Normal Grading Mode

SFT 565 Incident Investigation Tech **3 Credit hours**
An introductory course in accident investigation designed to give insight into the recognition and collection of evidence, collection and recording data and reconstructing the accident based on the facts.
Grade Mode: Normal Grading Mode

SFT 575 System Safety Engineering **3 Credit hours**
Grade Mode: Normal Grading Mode

SFT 580 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

SFT 581 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

SFT 582 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

SFT 583 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

SFT 585 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

SFT 586 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

SFT 587 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

SFT 589 Process Safety Mgmt **3 Credit hours**
A study of the latest industrial safety information which will assist the student in designing a program to reduce or eliminate all incidents which downgrade the system.
Grade Mode: Normal Grading Mode

SFT 591 Workshop **1-4 Credit hours**
Grade Mode: Normal Grading Mode

SFT 592 Workshop **1-4 Credit hours**
Grade Mode: Normal Grading Mode

SFT 593 Workshop **1-4 Credit hours**
Grade Mode: Normal Grading Mode

SFT 594 Workshop **1-4 Credit hours**
Grade Mode: Normal Grading Mode

SFT 597 Occup Sft & Health Prog Dev **3 Credit hours**
Safety functions in industry. Principles of organization and application of safety programs. Prevention, correction, and control methods are outlined and evaluated.
Grade Mode: Normal Grading Mode

SFT 599 Dev & Mgt of Occup Safety Prog **3 Credit hours**
A study of safety programs at the state and local levels including the administrative, instructional, and protective aspects of a comprehensive safety program in schools, occupations, home and public.
Grade Mode: Normal Grading Mode

SFT 601 Safety in Transportation **3 Credit hours**
Concerned with safe, efficient movement of people and goods. Involves highway, air, water, pipeline, and rails.
Grade Mode: Normal Grading Mode

SFT 606 Field Esp Safety Specialist **3 Credit hours**
Grade Mode: Normal Grading Mode

SFT 610 Intro to Prof Safety & Health **3 Credit hours**
An analysis of the educational philosophies and the application of these philosophies to occupational safety. A study of the effect of occupational safety on modern living.
Grade Mode: Normal Grading Mode

SFT 630 Current Lit & Res in Safety **3 Credit hours**
An analysis and study of selected works of national and international authors concerning significant works in Occupational Safety.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

SFT 645 Saf Engineering Equip Design **3 Credit hours**
The design and engineering of facilities and equipment to meet the physical needs of the human as well as enhancing production.
Grade Mode: Normal Grading Mode

SFT 647 Industrial Hygiene II **3 Credit hours**
Concerned with environmental health and safety hazards that arise out of or occur during work of employees.
Grade Mode: Normal Grading Mode

SFT 647L Quan Indus Hygiene Lab **3 Credit hours**
A laboratory course designed to complement Industrial Hygiene.
Grade Mode: Normal Grading Mode

SFT 648 Industrial Ventilation **3 Credit hours**
This course will cover the techniques of development, design maintenance, and troubleshooting of industrial ventilation systems. Also the types of ventilation systems used for different types of toxic materials.
Pre-req: SFT 647 or SED 647.
Grade Mode: Normal Grading Mode

SFT 649 Biophysical Hazards & Monitor **3 Credit hours**
Grade Mode: Normal Grading Mode

SFT 650 Internship Safety Specialist **3-12 Credit hours**
Attributes: No Textbook Required, Onsite Learning Experience
Grade Mode: Credit/No Credit Grade Only

SFT 651 Toxicology & Epidemiology **3 Credit hours**
Grade Mode: Normal Grading Mode

SFT 652 Industrial Noise & Vibration **3 Credit hours**
Pre-req: (SFT 554 or SED 554) or (SFT 647 or SED 647).
Grade Mode: Normal Grading Mode

SFT 660 Appl Ergon and Hum Factors Eng **3 Credit hours**
A study of how humans interact with the work environment, focusing on human capabilities and limitations, repetitive motion disorders, the human/machine interface and workspace design.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

SFT 661 Adv Occup Ergonomics **3 Credit hours**
Pre-req: SFT 660 or SED 660.
Grade Mode: Normal Grading Mode

SFT 662 Methods in Work Analysis **3 Credit hours**
Grade Mode: Normal Grading Mode

SFT 663 Work Environment Issues **3 Credit hours**
An examination of the aspects of the work environment that can affect health: time pressure, machine pacing, control etc. The recognition, measurement and control of these factors will be discussed.
Grade Mode: Normal Grading Mode

SFT 669 Traffic Safety Management **3 Credit hours**
Grade Mode: Normal Grading Mode

SFT 679 Problem Report **1-3 Credit hours**
Grade Mode: Normal Grading Mode

SFT 681 Thesis **1-6 Credit hours**
Attributes: No Textbook Required, Thesis
Grade Mode: Normal Grading Mode

SFT 690 Seminar **1-4 Credit hours**
Grade Mode: Normal Grading Mode

SFT 691 Seminar **1-4 Credit hours**
Grade Mode: Normal Grading Mode

SFT 692 Seminar **1-4 Credit hours**
Grade Mode: Normal Grading Mode

School Psychology (SPSY)

SPSY 523 Independent Research **1-3 Credit hours**
Course designed to provide the student with the opportunity to work with a school psychology program professor on a research problem mutually agreed upon in terms of a specific plan of study. (PR: Permission of the instructor)
Grade Mode: Normal Grading Mode

SPSY 601 Prof Comp I Schools **3 Credit hours**
This course is designed as an introduction to schools as organizations and systems.
Attributes: Onsite Learning Experience
Grade Mode: Normal Grading Mode

SPSY 603 Prof Comp II School Psych **3 Credit hours**
This course provides an opportunity to teach the historical roots of contemporary psychology and school psychology and to help students contemplate the future of school psychology. (PR: SPSY 601)
Pre-req: SPSY 601 with a minimum grade of C.
Grade Mode: Normal Grading Mode

SPSY 606 Adol Substance Abuse **3 Credit hours**
Substance abuse is a pervasive problem within our society. Mental Health professionals and educators require knowledge and skills in adolescent substance abuse prevention, intervention, and treatment to address this problem.
Grade Mode: Normal Grading Mode

SPSY 616 Typ & Atyp Child Dev **3 Credit hours**
This is a multicultural, reading and writing intensive course that presents information on typical and atypical human development.
Grade Mode: Normal Grading Mode

SPSY 617 Ind Svc I Consultation **3 Credit hours**
This course is an introductio nto the theory and practice of consultation and will prepare students to serve as consultants within public schools.
Attributes: Onsite Learning Experience
Grade Mode: Normal Grading Mode

SPSY 618 Dir Svc I Instruct & Bmod **3 Credit hours**
This course teaches the application of behavior modification principles to the classroom setting as well as the modification of instruction to meet the needs of atypical learners.
Attributes: Onsite Learning Experience
Grade Mode: Normal Grading Mode

SPSY 619 Dir Svc II-Ind Grp Csl **3 Credit hours**
This course is a direct interventions course focusing on individual and group therapy for children.
Grade Mode: Normal Grading Mode

SPSY 620 Ind Svc II Prevention **3 Credit hours**
This course is an introduction to the science and practice of primary prevention. Pre: SPSY 617.
Pre-req: SPSY 617.
Grade Mode: Normal Grading Mode

SPSY 621 Data-Based Decision I **3 Credit hours**
This course is a beginning problem-solving course designed to provide students with a variety of assessment methods they can use to start constructing their professional "tool Kit".
Grade Mode: Normal Grading Mode

SPSY 622 Data-Based Decision II **3 Credit hours**
This course is an intermediate problem-solving course designed to provide students with a variety of assessment measures to add to their professional "tool kit".
Grade Mode: Normal Grading Mode

SPSY 624 Data-Based Decision III **3 Credit hours**
Review of standard assessment instruments used in school psychology practice emphasizing those aspects of specialized testing consistant with diagnostic needs of the individual child or groups of children. (PR: SPSY 622)
Grade Mode: Normal Grading Mode

SPSY 674 Bio Bases School Psych **3 Credit hours**
Interactive and reading intensive course that uses both live class meetings and the WebCT format to present information on the biological foundations of school psychology.
Grade Mode: Normal Grading Mode

SPSY 675 Cognitive/Emo Bases Sch Psy **3 Credit hours**
SPSY 675 is a reading and writing intensive course that presents information of the psychological foundations of school psychology.
Attributes: Onsite Learning Experience
Grade Mode: Normal Grading Mode

SPSY 700 Special Topics **1-6 Credit hours**
Courses in specialized areas of school psychology on issues in the practice of school psychology. (PR: Permission of the instructor.)
Grade Mode: Normal Grading Mode

SPSY 701 Behavior Therapy **3 Credit hours**
Grade Mode: Normal Grading Mode

SPSY 710 Application of MTSS **3 Credit hours**
The focus of this course will be to integrate elements of consultation, assessment, and intervention into a comprehensive Multi-Tired System of Support for behavior and academics from the perspective of a school psychologist.
Pre-req: SPSY 621 with a minimum grade of C and SPSY 622 with a minimum grade of C.
Grade Mode: Normal Grading Mode

SPSY 720 Counseling With Youth Ad **3 Credit hours**
This is a course designed to help students improve their counseling skills with youth in schools by exploring and implementing the applied practices of the major theories of psychotherapy.
Pre-req: PSY 619 with a minimum grade of C.
Attributes: Onsite Learning Experience
Grade Mode: Normal Grading Mode

SPSY 738 Practicum I **3 Credit hours**
The initial practicum in school psychology is designed to provide a structured, experiential link between early coursework and practical experience. Pre: SPSY 601, SPSY 616, SPSY 621.
Pre-req: SPSY 621 and SPSY 616.
Attributes: Onsite Learning Experience
Grade Mode: Credit/No Credit Grade Only

SPSY 739 Practicum II **3 Credit hours**
The second practicum in school psychology is designed to provide a structured, experiental link between intermediate coursework and practical experience. Pre: SPSY 738.
Pre-req: SPSY 738.
Attributes: Onsite Learning Experience
Grade Mode: Credit/No Credit Grade Only

SPSY 740 Practicum III **1-6 Credit hours**
During this capstone experience, students will provide a full range of school psychological services in a multidisciplinary training setting supervised by credentialed school psychologists.
Grade Mode: Credit/No Credit Grade Only

SPSY 745 Internship in Sch Psych **1-12 Credit hours**
Attributes: Onsite Learning Experience
Grade Mode: Credit/No Credit Grade Only

SPSY 750 Ed S Thesis Research **3 Credit hours**
Development and defense of a research proposal examining a specific hypothesis in School Psychology. Analysis of data, written presentation in thesis form, and public defense are required.
Attributes: Thesis
Grade Mode: Credit/No Credit Grade Only

SPSY 751 Program Evaluation **3-12 Credit hours**
The course is designed to provide students with the fundamental skills to develop and implement evaluations of educational programs in the classroom, school, county or state.
Pre-req: PSY 517 with a minimum grade of C and SPSY 623 with a minimum grade of C.
Grade Mode: Credit/No Credit Grade Only

Social Studies (SOS)

SOS 561 Professional Development **1-4 Credit hours**
These courses are designed to meet the specific in-service needs of public school teachers. Credit in these courses can be used for certificate renewal and salary upgrading but cannot be used in degree programs.
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

Social Work (SWK)

SWK 501 Foundations of Gen Practice I **3 Credit hours**
This is the first in a sequence of two courses designed to develop the practice knowledge and skills necessary for MSW students to begin professional social work practice. The purpose of this course is to provide an overview of generalist practice.
Grade Mode: Normal Grading Mode

SWK 511 Foundations of HBSE **3 Credit hours**
This course is designed to enhance student's understanding of human behavior in the context of the social environment. The course includes content on theories and knowledge relative to human behavior and includes content on lifespan development, diversity, and culturally sensitive social work practice.
Grade Mode: Normal Grading Mode

SWK 521 Foundations of Social Policy **3 Credit hours**
The initial focus of this course is to provide students with an historical background of social welfare and social work. Students will learn how to analyze social policies focused on the social welfare institution.
Grade Mode: Normal Grading Mode

SWK 531 Foundations of Gen Practice II **3 Credit hours**
This is the second of two courses in MSW social work practice focused on preparing the student for entry into professional social work. Particular emphasis placed on the micro level of practice, working with individuals and families.
Grade Mode: Normal Grading Mode

SWK 541 Foundations of Research **3 Credit hours**
Introduction to scientific, analytic, approach to building knowledge and skills, including: role of concepts and theory, hypothesis, formulation, operationalization, research design, data collection, data processing, statistical analysis, introductory computer skills, and report writing.
Grade Mode: Normal Grading Mode

SWK 551 Foundations of Field Practicum **1-9 Credit hours**
This course is part of the field practicum experience where students are supervised in a social welfare agency for 400 clock hours. Building on foundation practice skills, students will apply knowledge, values, and skills to the generalist practice experience under the supervision of a licensed social worker.
Pre-req: SWK 501 with a minimum grade of C and SWK 511 with a minimum grade of C.
Grade Mode: Credit/No Credit Grade Only

SWK 579 Death Dying Berevement **3 Credit hours**
The purpose of this course is to provide intense study of the impact of Death, Dying and Berevement on individuals, families, and communities. Class format is both didactic and interactive. Case vignettes, videotapes and semi-structured class exercises will accompany lectures and assigned reading. The combination of these approaches will highlight process of how to conduct individual grief lectures, etc.
Grade Mode: Normal Grading Mode

SWK 580 Special Topics **1-4 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

SWK 581 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

SWK 582 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

SWK 583 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

SWK 585 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

SWK 586 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

SWK 587 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

SWK 613 Adv Human Behavior Social Env **3 Credit hours**
Social Work 613 is the second course in a two-course sequence that promotes a multidimensional understanding of human functioning and behavior across systems and the life course. This course specifically examines human behavior and functioning among individuals and families.
Grade Mode: Normal Grading Mode

SWK 614 Adm SWK Pract Behav Health **3 Credit hours**
Addresses theories and skills needed for direct supervision of workers and middle and upper management skills in service organizations. Models of supervision and administration are explored for these complex organizations.
Pre-req: SWK 613 (may be taken concurrently) with a minimum grade of C and SWK 622 (may be taken concurrently) with a minimum grade of C and SWK 642 (may be taken concurrently) with a minimum grade of C.
Concurrent PR: SWK 613 and SWK 622 and SWK 642
Grade Mode: Normal Grading Mode

SWK 615 Psychopathology **3 Credit hours**
The purpose of this course is to provide students with a solid foundation for understanding psychopathology and provides the knowledge for psychological diagnosis in clinical social work practice.
Grade Mode: Normal Grading Mode

SWK 616 Policy Prac in Beh Health **3 Credit hours**
Overview and analysis of current health policies, health care delivery, payment models, and benefits. Focus on implications and for clients served in health, behavioral health, integrated care settings with adults, families, and geriatrics.
Pre-req: SWK 615 (may be taken concurrently) with a minimum grade of C and SWK 643 (may be taken concurrently) with a minimum grade of C and SWK 653 (may be taken concurrently) with a minimum grade of C.
Concurrent PR: SWK 615 and SWK 643 and SWK 653
Grade Mode: Normal Grading Mode

SWK 622 Int Health Policy & Services **3 Credit hours**
The purpose of this course is to provide intensive study of the evolution of the integration of primary care and behavioral health services and to provide an opportunity for students to synsthesize and apply this learning to the practice of policy in the behavorial health service arena.
Grade Mode: Normal Grading Mode

SWK 623 Mil MH & Impact of Trauma **3 Credit hours**
The course explores the effects of deployment and combat stress on the physical and mental health of active duty U.S. service members and their families.
Grade Mode: Normal Grading Mode

SWK 624 MSW Supervision **1 Credit hour**
This course is part of the field practicum experience where students are supervised at their field agency for 450 clock hours.
Grade Mode: Normal Grading Mode

SWK 630 Int MH, Substance Use & Trauma **3 Credit hours**
this course identifies and explains ways to which clients with a diagnosis of trauma and co-occuring mental health and substance use can be treated simultaneously.
Grade Mode: Normal Grading Mode

SWK 631 Int Health Models & Pract **3 Credit hours**
This course prepares social workers to work collaboratively with cross disciplinary teams of providers. Social workers will be prepared to work in a variety of roles and functions, and possess the necessary skills to engage with highly diverse populations.
Grade Mode: Normal Grading Mode

SWK 633 Adv Clin SW Prac Ind Fam **3 Credit hours**
This course builds upon first year human behavior and practice foundation courses from a trans-disciplinary perspective. The goal is to facilitate integrating this knowledge with advanced analysis of research and theory for social work practice in healthcare settings.
Grade Mode: Normal Grading Mode

SWK 634 Adv SW Prac Gps Com & Org **3 Credit hours**
This course provides the knowledge and skills needed to understand community, group, and organizational behaviors and the planned change process. Particular focus will be on rural and underserved populations.
Grade Mode: Normal Grading Mode

SWK 642 Adv Social Research I **3 Credit hours**
This course introduces students to the philosophical and methodological issues of qualitative research. The course focuses on practicing various methods with the goal of producing a small qualitative study.
Grade Mode: Normal Grading Mode

SWK 643 Adv SW Research II **3 Credit hours**
Program and intervention development and evaluation research in health settings; issues and skill development in program design and methods for evaluation.
Grade Mode: Normal Grading Mode

SWK 650 Und Military Culture **3 Credit hours**
The purpose of this course is to train students to understand the military culture within which military families function. The course looks at stressors such as deployment, diversity of military family structures and a range of diversity filters which impact the military family and military culture.
Grade Mode: Normal Grading Mode

SWK 653 Adv Field Practicum **1-9 Credit hours**
This course provides concentration year students with an agency-based field instruction and classroom seminar for advanced learning and practice opportunities. The practicum takes place during the second semester of the concentration year.
Grade Mode: Credit/No Credit Grade Only

SWK 654 MSW Supervision **1 Credit hour**
This course is part of the field practicum experience where students are supervised at their field agency for 450 clock hours.
Grade Mode: Credit/No Credit Grade Only

SWK 655 Comorb Ment & Phy Disorders **3 Credit hours**
The course focues on behavioral health issues as related to prevention, assessment, treatment, and evaluation, and the effective implementation with all individuals to include military and military affiliated individuals, including veterans and their families.
Co-req: SWK 634
Grade Mode: Normal Grading Mode

SWK 656 SW In School Settings **3 Credit hours**
The skills of a trained social worker, include clinical, consultative, assessment and program development. Upon completion of the course students will be prepared to begin practice in school social work.
Grade Mode: Normal Grading Mode

SWK 657 Prevent In School Sw **3 Credit hours**
This course addresses the challenges facing teachers, youth, and families in our current environment. We will discuss childhood trauma while practicing methods of teaching youths.
Grade Mode: Normal Grading Mode

SWK 660 Social Gerontology **3 Credit hours**
This course is designed to involve students in the recognition of concerns and needs of dying patients and their families by examining the hospice concept and other services available.
Grade Mode: Normal Grading Mode

SWK 670 Adv Theory & Pract Child **3 Credit hours**
The course builds a framework for social work interventions using normative developmental supports and mental health case planning. Students will develop advanced clinical social work practice knowledge and skills for working with children and adolescents with mental health risks.
Grade Mode: Normal Grading Mode

SWK 673 Family & Community Violence **3 Credit hours**
This course provides content covering various types of violence through the lifespan. Specifically, child abuse, school violence, juvenille violence, family violence, workplace violence, and elder abuse will be analyzed and discussed. The course will consider the risk factors, current policies, practices and interventions with vulnerable populations.
Grade Mode: Normal Grading Mode

SWK 680 Intro to SW in Healthcare Set **3 Credit hours**
Course provides a detailed exploration of social work practice across the continuum of healthcare services including health promotion, disease prevention and community based, acute, tertiary and end of life care.
Grade Mode: Normal Grading Mode

SWK 681 Suicidology **3 Credit hours**
The course explores concepts of suicide as a public health issue. The course provides students with an understanding of suicide language and evidenced based clinical practice techniques.
Grade Mode: Normal Grading Mode

SWK 682 Human Trafficking **3 Credit hours**
Human Trafficking is grounded in fundamental concepts related to trafficking of human beings. Multiple forms of human exploitation as well as implications for social policy and interventions are discussed.
Grade Mode: Normal Grading Mode

SWK 683 Ethical Lead in Human Services **3 Credit hours**
Course is designed to enhance students skills and abilities in management or leadership positions in human service setting and includes elements of management and leadership theory and application of ethical supervision and practice standards.
Grade Mode: Normal Grading Mode

SWK 684 Rape Culture: Victim Biases **3 Credit hours**
This elective course will explore the phenomenon of rape (sexual assault) based on the experience of the person who reports the event instead of the charges on the perpetrator.
Pre-req: SWK 501 with a minimum grade of D and SWK 511 with a minimum grade of D and SWK 531 with a minimum grade of D.
Grade Mode: Normal Grading Mode

SWK 700 Aging and End of Life Issues **3 Credit hours**
This course examines again and end of life issues. Resources including alternatives to the traditional medical model such as Hospice and other community services are explored.
Grade Mode: Normal Grading Mode

Sociology (SOC)

SOC 501 Population and Human Ecology **3 Credit hours**
The course focuses on population and its relation to characteristics of environment. Specifically, it is designed to discuss the interaction of population processes and resources.
Grade Mode: Normal Grading Mode

SOC 508 The Family **3 Credit hours**
Theoretical analysis of the family as a primary social institution.
Grade Mode: Normal Grading Mode

SOC 513 Social Movements & Soc Change **3 Credit hours**
Analysis of large-scale social change, including intentional social movements and revolutions.
Grade Mode: Normal Grading Mode

SOC 520 Criminology **3 Credit hours**
An overview of sociological criminology, including an examination of explanations of criminal behavior, types of criminal activity, and an analysis of the criminal justice system.
Grade Mode: Normal Grading Mode

SOC 523 Social Class, Power & Conflict **3 Credit hours**
Theoretical analysis of economic and political inequality and the role of social conflict in the process of largescale social organization.
Grade Mode: Normal Grading Mode

SOC 525 Race and Ethnicity **3 Credit hours**
Diverse theoretical approaches to the meaning of race and ethnicity and the character of racial/ethnic relations, with substantive focus primarily on the U.S.
Grade Mode: Normal Grading Mode

SOC 528 Medical Sociology **3 Credit hours**
Social organization of modern medicine and allied health delivery systems.
Grade Mode: Normal Grading Mode

SOC 530 Women In Sports **3 Credit hours**
The history of women in sport, gender equity, opportunities for women in intercollegiate and professional sports (such as participate, coach, trainer, journalist, agent, and promoter), and physiological perspectives.
Grade Mode: Normal Grading Mode

SOC 532 Sociology of Appalachia **3 Credit hours**
Study of the economics, politics, and social relations of Appalachia, including contemporary debates.
Grade Mode: Normal Grading Mode

SOC 533 Sociology of Work **3 Credit hours**
Study of the organization and structure of the workplant as a social system; the meaning and organizations of work; managerial functions; management-labor relations; and human relations in industry.
Grade Mode: Normal Grading Mode

SOC 540 Intro to the Soc of Aging **3 Credit hours**
An introduction to the social processes and consequences of growing older for both the individual and society.
Grade Mode: Normal Grading Mode

SOC 542 Urban Sociology **3 Credit hours**
The sociology of urban and metropolitan communities.
Grade Mode: Normal Grading Mode

SOC 543 Evaluation Research **3 Credit hours**
Analysis and application of theories and methods for assessing the outcomes of applied organizational services and programs to affect change in people and for social conditions.
Grade Mode: Normal Grading Mode

SOC 550 Sociology of Religion **3 Credit hours**
An investigation into the nature of religion as a social phenomenon.
Grade Mode: Normal Grading Mode

SOC 551 Science Knowledge & Tech **3 Credit hours**
Studies science knowledge and technology as a human endeavor. Examines the processes and products, controversies, social impacts, interactions between science and other social institutions like religion and politics.
Pre-req: SOC 200.
Grade Mode: Normal Grading Mode

SOC 552 Soc Of Death & Dying **3 Credit hours**
The study of death and dying as a societal and cultural phenomenon. Explores how institutions within our society deal with death.
Grade Mode: Normal Grading Mode

SOC 555 Sociology of Sex and Gender **3 Credit hours**
Analysis of social differentiation and inequality by gender, with a focus on the contemporary U.S.
Grade Mode: Normal Grading Mode

SOC 560 The Holocaust and Genocide **3 Credit hours**
An examination of the Holocaust and other genocides from an interdisciplinary social science perspective.
Grade Mode: Normal Grading Mode

SOC 565 Environment and Society **3 Credit hours**
A critical examination of the link between society and the environment, including ideas about nature, wilderness, and the wild; causes of environmental degradation and responses to environmental issues.
Grade Mode: Normal Grading Mode

SOC 566 Culture and Environment **3 Credit hours**
This course will examine the symbolic and structural dimensions of struggles over defining, organizing, and controlling the natural environment from a biocultural perspective.
Grade Mode: Normal Grading Mode

SOC 568 National Identity **3 Credit hours**
Exploration of the cultural, political and economic processes that contribute to the creation and maintenance of the modern nation state as an imagined community.
Grade Mode: Normal Grading Mode

SOC 570 Soc Field Experience **3-6 Credit hours**
Supervised field work in a social organization or community working on practical problems.
Attributes: Onsite Learning Experience
Grade Mode: Normal Grading Mode

SOC 571 Soc Field Experience **3-6 Credit hours**
Supervised field work in a social organization or community working on practical problems.
Pre-req: SOC 506.
Grade Mode: Normal Grading Mode

SOC 580 Special Topics **1-4 Credit hours**
Study of topics not covered in regularly scheduled courses.
Grade Mode: Normal Grading Mode

SOC 581 Special Topics **1-4 Credit hours**
Study of topics not covered in regularly scheduled courses.
Grade Mode: Normal Grading Mode

SOC 582 Special Topics **1-4 Credit hours**
Study of topics not covered in regularly scheduled courses.
Grade Mode: Normal Grading Mode

SOC 583 Special Topics **1-4 Credit hours**
Study of topics not covered in regularly scheduled courses.
Grade Mode: Normal Grading Mode

SOC 585 Independent Study **1-4 Credit hours**
Individual study of topics not offered in regularly scheduled courses.
Grade Mode: Normal Grading Mode

SOC 586 Independent Study **1-4 Credit hours**
Individual study of topics not offered in regularly scheduled courses.
Grade Mode: Normal Grading Mode

SOC 587 Independent Study **1-4 Credit hours**
Individual study of topics not offered in regularly scheduled courses.
Grade Mode: Normal Grading Mode

SOC 588 Independent Study **1-4 Credit hours**
Individual study of topics not offered in regularly scheduled courses.
Grade Mode: Normal Grading Mode

SOC 600 Classical Sociological Theory **3 Credit hours**
An examination of the development of sociological theory, from its Enlightenment roots through its growth in the nineteenth and twentieth centuries, including the works of Comte, Spencer, Marx, Durkheim, Weber, and Simmel.
Grade Mode: Normal Grading Mode

SOC 601 Contemp Sociological Theory **3 Credit hours**
Advanced introduction to major theoretical developments and issues of significance in contemporary sociological theory, examining various theoretical perspectives at different levels of analysis and from different viewpoints.
Grade Mode: Normal Grading Mode

SOC 602 Contemp Social Change **3 Credit hours**
Theories of social change and their used in analyzing social change of today.
Grade Mode: Normal Grading Mode

SOC 603 Behavioral Science I **3 Credit hours**
Seminar in behavioral science theory.
Grade Mode: Normal Grading Mode

SOC 604 Behavioral Science II **3 Credit hours**
Seminar in behavioral science theory.
Grade Mode: Normal Grading Mode

SOC 605 Qual Res Methods and Analysis **3 Credit hours**
Seminar in qualitative research methods and analysis. Topics covered include coding, using qualitative software, generating theory, participant observation, intensive interview, internet inquiry, focus groups, documents, and content analysis.
Grade Mode: Normal Grading Mode

SOC 606 Quantitative Res Meth Analysis **3 Credit hours**
An introduction to quantitative research methods, statistics, and the software SPSS at an intermediate to advanced level with the main focus on developing working knowledge of the methods discussed.
Grade Mode: Normal Grading Mode

SOC 609 Professional Development **3 Credit hours**
Career preparation for teaching, research, and non-academic settings.
Grade Mode: Credit/No Credit Grade Only

SOC 614 Applied Demography **3 Credit hours**
Grade Mode: Normal Grading Mode

SOC 615 Applied Demography **3 Credit hours**
The focus of this course is to study the application of the principles and methods of demography to decision making and planning problems in both public and private setting.
Grade Mode: Normal Grading Mode

SOC 620 Criminology **3 Credit hours**
Seminar in crime and delinquency.
Grade Mode: Normal Grading Mode

SOC 640 Problems Aging Society **3 Credit hours**
Seminar in current and anticipated social consequences of aging for individuals and society and societal responses to this process.
Grade Mode: Normal Grading Mode

SOC 645 Social Statistics II **3 Credit hours**
Intermediate level statistical analysis including analysis of variance and covariance.
Grade Mode: Normal Grading Mode

SOC 655 Feminist Social Theory **3 Credit hours**
Diverse theoretical perspectives on the orgins and nature of gender, inequality. Emphasis on contemporary debates and their political implications.
Grade Mode: Normal Grading Mode

SOC 668 Seminar **1-3 Credit hours**
Topics vary from semester to semester.
Grade Mode: Normal Grading Mode

SOC 679 Problem Report **1-3 Credit hours**
The preparatin of a written report on a research problem or field study in sociology.
Grade Mode: Normal Grading Mode

SOC 681 Thesis **1-6 Credit hours**
Individual research in a selected field of sciology under the direction of a member of the department.
Attributes: Thesis
Grade Mode: Normal Grading Mode

SOC 685 Independent Study **1-4 Credit hours**
Individual study of topics not offered in regularly scheduled courses.
Grade Mode: Normal Grading Mode

Spanish (SPN)

SPN 507 For Lang Tching Methods **3 Credit hours**
Analysis and practical application of methods of teaching foreign language, including professional development, language pedagogy, and language standards. To be taken concurrently with CI 470
Grade Mode: Normal Grading Mode

SPN 511 Pre Mod Latin American Lits **3 Credit hours**
A study of representatinve Latin American literary works from Pre-Colonial, Colonial and 19th Century. Course taught in Spanish.
Pre-req: SPN 315 and SPN 316 or SPN 323 and SPN 324.
Grade Mode: Normal Grading Mode

SPN 512 Cont Latin American Lit **3 Credit hours**
A study of a selection of Latin American authors and works representative of the major literary movements in Latin America, from Modernism to the present. Course taught in Spanish.
Grade Mode: Normal Grading Mode

SPN 513 Lit Genres & Issues Latin Am **3 Credit hours**
Study of Poetry, Fiction, Drama, Essays, etc. in Latin America. At the discretion of the instructor literary genres could be crossed with approaches such as gender, race, religion, ethnicity etc. Course taught in Spanish.
Grade Mode: Normal Grading Mode

SPN 514 Mdv Ren & Gld Cnt Spanish Lit **3 Credit hours**
Study of representative Spanish authors and literary works and the major intellectual movements in peninsular literature from Medieval times to Spain's Golden Century. Course taught in Spanish.
Grade Mode: Normal Grading Mode

SPN 515 Spn Lit 18th & 19th Centuries **3 Credit hours**
Study of the representative Spanish authors and literary works and the major intellectual movements in peninsular literature during the 18th and 19th centuries. Course taught in Spanish.
Grade Mode: Normal Grading Mode

SPN 516 Cont Spn Lit **3 Credit hours**
Study of the representative SPanish authors and the major literary movements in peninsular literature from the Generation of 1898 to the present. Course taught in Spanish
Grade Mode: Normal Grading Mode

SPN 533 Int Adv Spn Gram **3 Credit hours**
This course will review and expand specific, advanced Spanish language structural points. It will include daily intensive practice in four linguistic skills. Course taught in Spanish.
Grade Mode: Normal Grading Mode

SPN 536 Cult & Soc in Cont Spain **3 Credit hours**
Course based on origins of issues confronting contemporary Spain: the war's aftermath, transition to democracy and modernizatio, the European Union, terrorism, regional autonomy, feminism, sexual identity. Course taught in Spanish.
Grade Mode: Normal Grading Mode

SPN 561 Adv Syntax & Stylistics **3 Credit hours**
A detailed analysis of Spanish syntax and shades of meaning with the writing of original compositions in Spanish to perfect the student's own style.
Grade Mode: Normal Grading Mode

SPN 580 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

SPN 581 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

SPN 582 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

SPN 583 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

SPN 585 Independent Study **1-4 Credit hours**
Independent research in selected areas of Spanish and Spanish American literature that are not available in other courses in the catalog. The student has the opportunity to become familiar with leading authorities and bibliographies. Conferences and reports in Spanish.
Grade Mode: Normal Grading Mode

SPN 586 Independent Study **1-4 Credit hours**
Independent research in selected areas of Spanish and Spanish American literature that are not available in other courses in the catalog. The student has the opportunity to become familiar with leading authorities and bibliographies. Conferences and reports in Spanish.
Grade Mode: Normal Grading Mode

SPN 587 Independent Study **1-4 Credit hours**
Independent research in selected areas of Spanish and Spanish American literature that are not available in other courses in the catalog. The student has the opportunity to become familiar with leading authorities and bibliographies. Conferences and reports in Spanish.
Grade Mode: Normal Grading Mode

SPN 588 Independent Study **1-4 Credit hours**
Independent research in selected areas of Spanish and Spanish American literature that are not available in other courses in the catalog. The student has the opportunity to become familiar with leading authorities and bibliographies. Conferences and reports in Spanish.
Grade Mode: Normal Grading Mode

SPN 610 Read Span or Span Am Lit **1-3 Credit hours**
Readings designed for the graduate student who has the interest and the ability to study in depth a certain author, genre, or literary movement.
Grade Mode: Normal Grading Mode

SPN 611 Latin American Poetry **3 Credit hours**
Course introduces students to Latin American poetry within framework of gender/genre and linguistic subversions of canonical and linguistic codes in traditionalist Western aesthetics of poetry. Course taught in Spanish.
Grade Mode: Normal Grading Mode

SPN 612 Spanish Amer Romanticism **3 Credit hours**
Leading writers and trends in thought and versification of the romantic period.
Grade Mode: Normal Grading Mode

SPN 613 Texts 20th Cent Lat Amer **3 Credit hours**
Overview of the various ways in which literary and non-literary Latin American texts have interacted during the 20th century. Course taught in Spanish.
Pre-req: SPN 656.
Grade Mode: Normal Grading Mode

SPN 614 Thms & Stls Spanish Poetry **3 Credit hours**
Survey of Castillian/Spanish poetry with emphasis on the cultural and intellectual contexts in which it is produced. Course taught in Spanish.
Pre-req: SPN 656.
Grade Mode: Normal Grading Mode

SPN 615 Latin American Theater **3 Credit hours**
Course introduces students to Latin American Theatre within framework of literary and discursive subversion theatre and realism. Course taught in Spanish.
Grade Mode: Normal Grading Mode

SPN 618 Soc and Lit Spanich Thtr **3 Credit hours**
Application of dramatic theories to samples of Castilliam/Spanish theatre. Emphasis will be placed on the cultural contexts of the plays read. Course taught in Spanish.
Pre-req: SPN 656.
Grade Mode: Normal Grading Mode

SPN 620 Spanish Romanticism **3 Credit hours**
The trends and characteristics of the Romantic Movement in the writings of its leading exponents in lyric poetry, nondramatic prose, and the theatre.
Grade Mode: Normal Grading Mode

SPN 625 Spanish Lit of 20Th Cent **3 Credit hours**
Emphasis on prose, poetry and the theatre since 1936, including writers in exile.
Grade Mode: Normal Grading Mode

SPN 646 Trd & In Frms Spanish Prs **3 Credit hours**
Development of Castillian/Spanish prose. Reading of selected works by important authors. Comparison and contrast of different types of discourses. Discourse analysis and interpretation. Course taught in Spanish.
Pre-req: SPN 656.
Grade Mode: Normal Grading Mode

SPN 650 Special Topics **1-4 Credit hours**
Independent Research in selected areas of Spanish or Spanish American Literature that are not available in other courses in the catalog.
Grade Mode: Normal Grading Mode

SPN 651 Special Topics **1-4 Credit hours**
Independent Research in selected areas of Spanish or Spanish American Literature that are not available in other courses in the catalog.
Grade Mode: Normal Grading Mode

SPN 652 Special Topics **1-4 Credit hours**
Independent Research in selected areas of Spanish or Spanish American Literature that are not available in other courses in the catalog.
Grade Mode: Normal Grading Mode

SPN 653 Special Topics **1-4 Credit hours**
Independent Research in selected areas of Spanish or Spanish American Literature that are not available in other courses in the catalog.
Grade Mode: Normal Grading Mode

SPN 655 Int Spn Lings **3 Credit hours**
General survey of Spanish linguistics, both theoretical (phonetics, phonology, syntax and semantics) and applied (pragmatics, discourse analysis, sociolinguistics, and bilingualism). Course taught in Spanish.
Grade Mode: Normal Grading Mode

SPN 656 Crt Thry Spn/Latin Amer Lit **3 Credit hours**
Study of major trends in literary theory and criticism in the 20th century. Practical application of the theories to various kinds of texts written in Spanish. Course taught in Spanish.
Grade Mode: Normal Grading Mode

SPN 679 Problem Report **1-3 Credit hours**
Grade Mode: Normal Grading Mode

SPN 681 Thesis **1-6 Credit hours**
Attributes: Thesis
Grade Mode: Normal Grading Mode

Sport Tourism Hospitality Mgt (STHM)

STHM 505 Sport Psychology **3 Credit hours**
An examination of theory, research, and application of psychological principles related to sport and exercise.
Grade Mode: Normal Grading Mode

STHM 511 Ethics in Sports **3 Credit hours**
A philosophical examination of both the fundamental ethical principles, as well as, the most common ethical dilemmas and controversies found in sports.
Grade Mode: Normal Grading Mode

STHM 516 Facility Design & Management **3 Credit hours**
This course covers quantity, location, and design standards for facilities. Includes safety, functionality, durability, and maintenance requirements in planning and design.
Grade Mode: Normal Grading Mode

STHM 525 Sport in Film **3 Credit hours**
The relationship between sports and feature motion pictures are analyzed in the historical, social and cultural contexts.
Grade Mode: Normal Grading Mode

STHM 530 Sport Law **3 Credit hours**
The study of the basic principles of the legal system as they operate in the environment of American sport.
Grade Mode: Normal Grading Mode

STHM 540 Women in Sport **3 Credit hours**
The history of women in sport, gender equity, opportunities for women in intercollegiate and professional sports (such as participant, coach, trainer, journalist, agent and promoter), and physiological perspectives.
Grade Mode: Normal Grading Mode

STHM 575 Sem Sport MGT MKT **3 Credit hours**
This course is designed to provide students with an overview of all aspects involved in the Sports Management and Marketing field through classroom lectures, guest speakers, and field trips.
Grade Mode: Normal Grading Mode

STHM 580 Special Topics **1-4 Credit hours**
Special topics are experimental courses that offered by the Sport, Tourism and Hospitality Management department.
Grade Mode: Normal Grading Mode

STHM 581 Special Topics **1-4 Credit hours**
Special topics are experimental courses that offered by the Sport, Tourism and Hospitality Management department.
Grade Mode: Normal Grading Mode

STHM 582 Special Topics **1-4 Credit hours**
Special topics are experimental courses that offered by the Sport, Tourism and Hospitality Management department.
Grade Mode: Normal Grading Mode

STHM 583 Special Topics **1-4 Credit hours**
Special topics are experimental courses that offered by the Sport, Tourism and Hospitality Management department.
Grade Mode: Normal Grading Mode

STHM 596 Olympic Games **3 Credit hours**
Exploring the important role of the Olympic Movement in politics since the modern Olympic Movement in 1896.
Grade Mode: Normal Grading Mode

STHM 601 Sports Analytics **3 Credit hours**
This course helps students to develop analytical techniques for sports teams, focusing on player performance prediction and business modeling, covering critical thinking, statistical analysis, predictive analytics, optimization, and simulation skills.
Grade Mode: Normal Grading Mode

STHM 615 Legal Concerns in Sport Admin **3 Credit hours**
This course is designed to prepare students with the knowledge to apply the legal doctrines that will enhance their ability as sport leaders to make prudent management and operational decisions.
Grade Mode: Normal Grading Mode

STHM 624 Current Issues in Sport Admin **3 Credit hours**
An in-depth look at current issues affecting all areas of the Sport Administration field.
Grade Mode: Normal Grading Mode

STHM 643 Sport in Social Process **3 Credit hours**
An in depth analysis of the processes by which sport evolved as a significant component of modern American life.
Grade Mode: Normal Grading Mode

STHM 652 Organ Behav Sprt Leis Indus **3 Credit hours**
Examine the complexity of human behavior in organizational settings in sport and leisure industry, and the role of managers and leaders in affecting that behavior.
Grade Mode: Normal Grading Mode

STHM 660 Internship **3-6 Credit hours**
The placement of an individual into a Sport, Tourism and Hospitality agency to observe and participate in its operation.
Attributes: Onsite Learning Experience
Grade Mode: Normal Grading Mode

STHM 671 Sport Admin Research Methods **3 Credit hours**
This course introduces students to key research methods in Sport Administration, with a focus on both quantitative and qualitative approaches and their practical applications in the field.
Grade Mode: Normal Grading Mode

STHM 674 Sport Finance and Business **3 Credit hours**
This course covers financial principles and business strategies in the sport industry, students will learn financial statement analysis, budgeting skills, and economic concepts for informed decision-making in sport organizations
Grade Mode: Normal Grading Mode

STHM 675 MKT MGT of Sport Industry **3 Credit hours**
This course explores consumer-centered branding strategies and their application in the sports industry. It offers frameworks for building brand equity and connects theory to global practices through real-world case studies
Grade Mode: Normal Grading Mode

STHM 681 Thesis **1-6 Credit hours**
Research opportunities in the STHM field are broad. Students can choose to work with one of the faculty members on a research direction which the faculty and student choose.
Attributes: Thesis
Grade Mode: Normal Grading Mode

STHM 685 Independent Study **1-4 Credit hours**
Independent studies are tutorials, directed and independent readings, directed and independent research, problem reports, and other individualized activities which allow students to explore in depth a specific aspect.
Grade Mode: Normal Grading Mode

STHM 686 Independent Study **1-4 Credit hours**
Independent studies are tutorials, directed and independent readings, directed and independent research, problem reports, and other individualized activities which allow students to explore in depth a specific aspect.
Grade Mode: Normal Grading Mode

STHM 687 Independent Study **1-4 Credit hours**
Independent studies are tutorials, directed and independent readings, directed and independent research, problem reports, and other individualized activities which allow students to explore in depth a specific aspect.
Grade Mode: Normal Grading Mode

STHM 688 Independent Study **1-4 Credit hours**
Independent studies are tutorials, directed and independent readings, directed and independent research, problem reports, and other individualized activities which allow students to explore in depth a specific aspect.
Grade Mode: Normal Grading Mode

STHM 696 Seminar in Sport Admin **3 Credit hours**
This course explores consumer-centered branding strategies and their application in the sports industry. It offers frameworks for building brand equity and connects theory to global practices through real-world case studies.
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

Statistics (STA)

STA 512 Regression Analysis **3 Credit hours**
Determining regression models; deriving parameter estimates using calculus; detailed coverage of tests of assumptions and remedial procedures (transformations and weighted least-squares); multiple and polynomial regression; tests and corrections for autocorrelation.
Pre-req: STA 545 with a minimum grade of C.
Grade Mode: Normal Grading Mode

STA 513 Experimental Designs **3 Credit hours**
Principles of experimentation; Analysis of variance; Latin square and related designs; Factorial designs, Response Surface; Robustness; Nested and Split-Plot designs.
Pre-req: STA 545 with a minimum grade of C.
Grade Mode: Normal Grading Mode

STA 518 Biostatistics **3 Credit hours**
Statistical skills for biological/biomedical research, with emphasis on applications. Experimental design/survey sampling, estimation/hypothesis testing procedures, regression, ANOVA, multiple comparisons. Implementation using statistical software such as SAS, BMDP. May not be used for any degree offered by the Department of Mathematics.
Grade Mode: Normal Grading Mode

STA 520 Nonparametric Statistics **3 Credit hours**
Coverage of a variety of nonparametric or distribution-free markets for practical statistical inference problems in hypothesis testing and estimation, including rank procedures and randomization procedures.
Pre-req: STA 545 with a minimum grade of C.
Grade Mode: Normal Grading Mode

STA 525 Sampling Design & Estimation **3 Credit hours**
Coverage of the theory and applications of a variety of sampling designs; sample size determination; ratio and regression estimates; comparisons among the designs.
Grade Mode: Normal Grading Mode

STA 535 Statistical Data Mining **3 Credit hours**
Introduction to statistical learning techniques for analyzing high dimensional data. Topics include data mining strategy, explanatory analysis, predictive modeling techniques and model assessment.
Grade Mode: Normal Grading Mode

STA 545 Probability and Statistics I **3 Credit hours**
Probability spaces, conditional probability, and applications. Random variables, distributions, expectations, and moments.
Grade Mode: Normal Grading Mode

STA 546 Probability and Statistics II **3 Credit hours**
Probability spaces, conditional probability, and applications. Random variables, distributions, expectations, and moments.
Pre-req: STA 545 with a minimum grade of C.
Grade Mode: Normal Grading Mode

STA 564 Statistical Computing **3 Credit hours**
Introduction to the commonly used statistical computing techniques, procedures and methods, with extensive use of R language and environment, and SAS for statistical computing and graphics. (CR/PR: STA 545 or STA 546)
Pre-req: STA 545 with a minimum grade of C.
Grade Mode: Normal Grading Mode

STA 570 Applied Survival Analysis **3 Credit hours**
Survival and hazard functions, parametric and non-parametric methods, models and inferences for survival data, proportional hazard, and regression diagnosis.
Pre-req: STA 545 with a minimum grade of C.
Grade Mode: Normal Grading Mode

STA 580 Special Topics **1-4 Credit hours**
Courses on special topics in statistics not listed among current course offerings.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

STA 585 Independent Study **1-4 Credit hours**
A faculty supervised, individualized course of study of a topic in statistics.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

STA 634 Stat Mtds for Researchers **3 Credit hours**
Aspects of statistical modeling including model building, adequacy assessment, inference, and prediction. Applications to social biological, and medical sciences; engineering; and industry.
Grade Mode: Normal Grading Mode

STA 660 Stochastic Processes **3 Credit hours**
Theory and applications of Markov chains. (PR: MTH 545)
Pre-req: STA 545 with a minimum grade of C.
Grade Mode: Normal Grading Mode

STA 661 Adv Math Statistics **3 Credit hours**
Topics in mathematical statistics including distribution theory for functions of random variables, convergence concepts, sufficient statistics, finding optimal estimates for parameters, optimal test of hypotheses. (PR: MTH 546)
Pre-req: STA 546 with a minimum grade of C.
Grade Mode: Normal Grading Mode

STA 662 Appl Multivariate Stat Methods **3 Credit hours**
Introduction to multivariate statistical analyses and methodologies of various types of datasets that are commonly encountered in medical, business, engineering, science, and any other data intensive disciplines.
Pre-req: STA 546 with a minimum grade of C.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

STA 663 Time Series Forecasting **3 Credit hours**
Finding statistical models to represent various time-dependent phenomena and processes; coverage of a variety of forecasting techniques, with an emphasis on adaptive, regression, and Box-Jenkins procedures.
Pre-req: STA 545 with a minimum grade of C.
Grade Mode: Normal Grading Mode

STA 664 Bayesian Statistics **3 Credit hours**
An introduction to Bayesian Statistics with focus on Bayesian Modeling, inference and Data Analysis. Applications will be studies with appropriate statistical software.
Pre-req: STA 545 with a minimum grade of D.
Grade Mode: Normal Grading Mode

STA 665 Advanced Stat Learning **3 Credit hours**
An overview of concepts and techniques in advanced statistical learning. Topics include supervised/unsupervised learning, kernel smoothing methods, trees, random forests, association rules, neural networks and support vector machines.
Pre-req: STA 535 with a minimum grade of D.
Grade Mode: Normal Grading Mode

STA 670 Independent Study **1-4 Credit hours**
A faculty supervised, individualized course of study of a topic in statistics.
Grade Mode: Normal Grading Mode

STA 681 Thesis **1-6 Credit hours**
Investigate a theoretical or applied statistics problem under faculty mentorship.
Attributes: No Textbook Required, Onsite Learning Experience, Thesis
Grade Mode: Normal Grading Mode

STA 690 Special Topics **1-4 Credit hours**
Courses on special topics in statistics not listed among the current course offerings.
Grade Mode: Normal Grading Mode

Surgery (SUR)

SUR 710 Surgery Clerkship **8 Credit hours**
Grade Mode: Normal Grading Mode

SUR 712 Surgery RPAP **4 Credit hours**
The purpose of this course is to provide the RPAP student with the requirements that must be met by the end of their RPAP experience for successful completion of the Surgical Clerkship Rotation.
Grade Mode: Normal Grading Mode

SUR 713 Surg Clerkship Kellogg **6 Credit hours**
Comprehensive coverage at the introductory level of surgery (in the Kellogg curriculum). The reduction in credit from the standard clerkshp to accommodate the Kellogg schedule.
Grade Mode: Normal Grading Mode

SUR 742 Surgery Clerkship **1-18 Credit hours**
Grade Mode: Pass/Fail Grading Mode

SUR 744 Required Surgery **4 Credit hours**
Grade Mode: Normal Grading Mode

SUR 780 Elective Special Projects **1 Credit hour**
Grade Mode: Normal Grading Mode

SUR 785 Independent Study **1-15 Credit hours**
Grade Mode: Credit/No Credit Grade Only

SUR 801 General Surgery **1-18 Credit hours**
Grade Mode: Pass/Fail Grading Mode

SUR 802 Adv Emergency Medicine **1-18 Credit hours**
Grade Mode: Normal Grading Mode

SUR 803 Neurosciences **1-18 Credit hours**
Pre-req: SUR 710.
Grade Mode: Normal Grading Mode

SUR 804 Ophthalmology **1-18 Credit hours**
Pre-req: SUR 710.
Grade Mode: Normal Grading Mode

SUR 805 Oral Surgery **1-18 Credit hours**
Grade Mode: Normal Grading Mode

SUR 807 Orthopedics **1-18 Credit hours**
Pre-req: SUR 710.
Grade Mode: Normal Grading Mode

SUR 808 Otolaryngology **1-18 Credit hours**
Grade Mode: Pass/Fail Grading Mode

SUR 809 Plastic Surgery **1-18 Credit hours**
Grade Mode: Pass/Fail Grading Mode

SUR 810 Thoracic Cardiovasc Surg **1-18 Credit hours**
Grade Mode: Normal Grading Mode

SUR 811 Urology **1-18 Credit hours**
Grade Mode: Pass/Fail Grading Mode

SUR 812 Trauma Intensive Care **1-18 Credit hours**
The purpose of the trauma rotation is to allow the MSIV student to enhance his/her knowledge base and develop the pharmacotherapeutic skills required for the provision of care to critically ill trauma patients and burn patients. The student will become familiar with pharmacotherapy for critically ill and injured patients, review key guidelines and landmark trials and become familiar in how to assume patient care responsibility.
Grade Mode: Pass/Fail Grading Mode

SUR 813 Surgical Anatomy **1-18 Credit hours**
Pre-req: SUR 710.
Grade Mode: Pass/Fail Grading Mode

SUR 815 Pediatric Surgery **1-18 Credit hours**
Grade Mode: Normal Grading Mode

SUR 816 Surgical Research **4-6 Credit hours**
Grade Mode: Pass/Fail Grading Mode

SUR 817 Breast Surgery **1-18 Credit hours**
This is a 2-week rotation in Breast Surgical Oncology. It is inclusive of the complete care of the breast oncology patient.
Grade Mode: Pass/Fail Grading Mode

SUR 825 Ambulatory Care **1-18 Credit hours**
Grade Mode: Normal Grading Mode

SUR 827 Sub-I in General Surgery **1-18 Credit hours**
The surgical sub-internship is a focused month designed to have students directly participate in the care of surgical patients; that is, initial evaluation, formulation of differential diagnoses, establishment of treatment plans and eventual daily care of the patient. Sudents will actively participate on rounds, daily care tasks, procedures and conferences.
Grade Mode: Pass/Fail Grading Mode

SUR 830 Surgical Bootcamp **1-18 Credit hours**
The course is intended to help students prepare better for the surgical intern year by covering the basic medical knowledge and technical skills that are frequently used as a first-year resident. The course will be composed of both structured lectures as well as hands on simulation sessions. Students will get a chance to interact with current surgical residents as well as attendings.
Grade Mode: Pass/Fail Grading Mode

SUR 833 Surgical ICU **1-18 Credit hours**
Course designed to allow student to gain experience with monitoring and evaluation critically ill surgical patients.
Grade Mode: Pass/Fail Grading Mode

SUR 858 In-State Externship in Surgery **1-18 Credit hours**
Clinical course to allow students to complete clinical training at approved sites within the State of West Virginia that is no a MUSOM site.
Grade Mode: Pass/Fail Grading Mode

SUR 868 Surgery Externship **1-18 Credit hours**
Out-of-State Externship
Grade Mode: Pass/Fail Grading Mode

SUR 888 Rural Health Initia Elec Alt **1-18 Credit hours**
Acquaints students with issues of rural community health and wellness. Provides students with knowledge, attitudes and skills to participate in a changing health care environment.
Grade Mode: Normal Grading Mode

SUR 899 Clerkship in Surgery **1-18 Credit hours**
Pre-req: SUR 710.
Grade Mode: Normal Grading Mode

Technology and Engineering (TE)

TE 600 Orientation CITE Grad Studies **0 Credit hours**
Orientation course covering skills such as technical communication, quantitative reasoning, research methods, ethics and professionalism, team work, and discipline-specific information.
Grade Mode: Credit/No Credit Grade Only

TE 650 Special Topics **4 Credit hours**
Occasional offerings of current topics in technology and engineering, providing important supplementary material for participating students.
Grade Mode: Credit/No Credit Grade Only

TE 651 Special Topics **1-4 Credit hours**
Occasional offerings of current topics in technology and engineering, providing important supplementary material for participating students.
Grade Mode: Normal Grading Mode

TE 652 Special Topics **1-4 Credit hours**
Occasional offerings of current topics in technology and engineering, providing important supplementary material for participating students.
Grade Mode: Normal Grading Mode

TE 653 Special Topics **1-4 Credit hours**
Occasional offerings of current topics in technology and engineering, providing important supplementary material for participating students.
Grade Mode: Normal Grading Mode

TE 685 Independent Study **1-4 Credit hours**
An approved study of special interest, that is appropriate for the student's program of study, concerning technology and engineering. Carried out under the supervision of a faculty member.
Grade Mode: Normal Grading Mode

TE 686 Independent Study **1-4 Credit hours**
An approved study of special interest, that is appropriate for the student's program of study, concerning technology and engineering. Carried out under the supervision of a faculty member.
Grade Mode: Normal Grading Mode

TE 687 Independent Study **1-4 Credit hours**
An approved study of special interest, that is appropriate for the student's program of study, concerning technology and engineering. Carried out under the supervision of a faculty member.
Grade Mode: Normal Grading Mode

TE 688 Independent Study **1-4 Credit hours**
An approved study of special interest, that is appropriate for the student's program of study, concerning technology and engineering. Carried out under the supervision of a faculty member.
Grade Mode: Normal Grading Mode

TE 698 Comp Project Formulation **3 Credit hours**
Comprehensive project proposal is developed, approved, and work begun, under supervision. Technical report writing, oral presentations, and communication skills. (PR: EM 660) S/U Grading.
Pre-req: EM 660.
Grade Mode: Credit/No Credit Grade Only

TE 699 Comprehensive Project **3 Credit hours**
Completion of comprehensive project under the supervision of a faculty member. Includes final written submittal and public oral presentation. (PR: TE 698) S/U Grading.
Attributes: No Textbook Required
Grade Mode: Credit/No Credit Grade Only

Technology Management (TM)

TM 600 Program Introduction Seminar **1 Credit hour**
This course reviews fundamental mathematical and statistical methods, presentations, report writing, group project skills and use of case studies. An orientation and overview to the degree program are also provided.
Pre-req: TM 610 (may be taken concurrently).
Concurrent PR: TM 610
Grade Mode: Normal Grading Mode

TM 610 Mgmt of Innovation & Tech **3 Credit hours**
Provides a comprehensive introduction to technology and innovation managment. Considers issues relating to international markets, innovation, and rapidly changing technology. Also covers effective organizational and managerial approaches to technology.
Grade Mode: Normal Grading Mode

TM 630 Qual & Prod Methods **3 Credit hours**
Study of quality and productivity improvement methods with emphasis on applications to knowledge worker organizations. Examines total quality management, and personal and organizational productivity improvement processes. (PR: TM 610)
Grade Mode: Normal Grading Mode

TM 640 Intelligent Transpor Systems **3 Credit hours**
Overview of transportation telemetrics and introduction to intelligent transportation systems. Communications and computing technologies in transportation. Overview of issues: traffic safety, public transportation.
Grade Mode: Normal Grading Mode

TM 650 Special Topics **1-4 Credit hours**
Ocasional offerings of current topics in technology management, providing important supplementary material for participating students. (PR: Full Admission to TM program or permission of TM Program Director).
Grade Mode: Normal Grading Mode

TM 651 Special Topics **1-4 Credit hours**
Occasional offerings of current topics in technology management, providing important supplementary material for participating students. (PR: Full Admission to TM program or permission of TM Program Director).
Grade Mode: Normal Grading Mode

TM 652 Special Topics **1-4 Credit hours**
Occasional offerings of current topics in technology management, providing important supplementary material for participating students. (PR: Full Admission to TM program or permission of TM Program Director).
Grade Mode: Normal Grading Mode

TM 653 Special Topics **1-4 Credit hours**
Occasional offerings of current topics in technology management, providing important supplementary material for participating students. (PR: Full Admission to TM program or permission of TM Program Director).
Grade Mode: Normal Grading Mode

TM 660 Computing & Info Sys Tech **3 Credit hours**
Provides a broad understanding of computing and information systems technologies with emphasis on development, current trends, strategic and tactical management, and legal and regulatory issues. (PR: TM 615)
Pre-req: TM 615 (may be taken concurrently).
Concurrent PR: TM 615
Grade Mode: Normal Grading Mode

TM 667 Mod Mfg Concepts **3 Credit hours**
The course covers modern manufacturing concepts, analysis, and tools such as Just-In-Time, MRP systems, Lean Manufacturing, inventory management, total quality manufacturing, factory physics, and operating and control philosophies.
Grade Mode: Normal Grading Mode

TM 668 Computer Integrated Mfg **3 Credit hours**
Grade Mode: Normal Grading Mode

TM 685 Independent Study **1-4 Credit hours**
An approved study of special interest concerning technology management, under the supervision of a faculty member. (PR: Full Admission to TM program, or permission of TM Program Director).
Grade Mode: Normal Grading Mode

TM 686 Independent Study **1-4 Credit hours**
An approved study of special interest concerning technology management, under the supervision of a faculty member. (PR: Full Admission to TM program, or permission of TM Program Director).
Grade Mode: Normal Grading Mode

TM 687 Independent Study **1-4 Credit hours**
An approved study of special interest concerning technology management, under the supervision of a faculty member: (PR: Full Admission to TM program, or permission of TM Program Director).
Grade Mode: Normal Grading Mode

TM 688 Independent Study **1-4 Credit hours**
An approved study of special interest concerning technology management, under the supervision of a faculty member. (PR: Full Admission to TM program, or permission of TM Program Director).
Grade Mode: Normal Grading Mode

Theatre (THE)

THE 536 Children's Theatre **3 Credit hours**
Theory, direction, and staging of plays for children.
Grade Mode: Normal Grading Mode

THE 537 Directing I **3 Credit hours**
Introduction to theories, principles, techniques, and history of directing.
Grade Mode: Normal Grading Mode

THE 538 Directing II **3 Credit hours**
In-depth study of directorial approaches. Analysis of contemporary movements and leaders in the field. Students must stage productions as part of class requirement.
Pre-req: THE 537.
Grade Mode: Normal Grading Mode

THE 539 Directing for the Camera **3 Credit hours**
Projects in directing for the camera. Video taping of selected directing exercises.
Pre-req: THE 537.
Grade Mode: Normal Grading Mode

THE 580 Special Topics **1-4 Credit hours**
Program of study not normally covered in other courses. Topics vary from semester to semester.
Grade Mode: Normal Grading Mode

THE 581 Special Topics **1-4 Credit hours**
Program of study not normally covered in other courses. Topics vary from semester to semester.
Grade Mode: Normal Grading Mode

THE 582 Special Topics **1-4 Credit hours**
Program of study not normally covered in other courses. Topics vary from semester to semester.
Grade Mode: Normal Grading Mode

THE 583 Special Topics **1-4 Credit hours**
Program of study not normally covered in other courses. Topics vary from semester to semester.
Grade Mode: Normal Grading Mode

THE 585 Independent Study **1-4 Credit hours**
Courses taught by tutorials; directed independent readings or research; problem reports, and other activities designed to fill the needs of individual students.
Grade Mode: Normal Grading Mode

THE 586 Independent Study **1-4 Credit hours**
Courses taught by tutorials; directed independent readings or research; problem reports, and other activities designed to fill the needs of individual students.
Grade Mode: Normal Grading Mode

THE 587 Independent Study **1-4 Credit hours**
Courses taught by tutorials; directed independent readings or research; problem reports, and other activities designed to fill the needs of individual students.
Grade Mode: Normal Grading Mode

THE 588 Independent Study **1-4 Credit hours**
Courses taught by tutorials; directed independent readings or research; problem reports, and other activities designed to fill the needs of individual students.
Grade Mode: Normal Grading Mode

THE 591 Theatre Workshop **1-4 Credit hours**
Practical, participatory courses for advanced students and professionals. Experience in new techniques, theories, and principles.
Grade Mode: Normal Grading Mode

THE 592 Theatre Workshop **1-4 Credit hours**
Practical, participatory courses for advanced students and professionals, Experience in new techniques, theories, and principles.
Grade Mode: Normal Grading Mode

THE 593 Theatre Workshop **1-4 Credit hours**
Practical, participatory courses for advanced students and professionals. Experience in new techniques, theories, and principles.
Grade Mode: Normal Grading Mode

THE 594 Theatre Workshop **1-4 Credit hours**
Practical, participatory courses for advanced students and professionals. Experience in new techniques, theories, and principles.
Grade Mode: Normal Grading Mode

Faculty

For a list of graduate faculty, please visit the Marshall University Redbook at https://mubert.marshall.edu/redbook/index.php (https://mubert.marshall.edu/redbook/).

University Calendar

FALL 2025 SEMESTER (15 WEEKS)

August 11, Monday
Residence halls open for freshmen

August 11, Monday – August 17, Sunday
Registration/schedule adjustment

August 13, Wednesday – August 15, Friday
Week of Welcome for freshmen

August 15, Friday
Residence halls open for upperclassmen

August 18, Monday
First day of classes

August 18, Monday – August 22, Friday
Late registration/schedule adjustment

August 22, Friday
Last day to add a class

August 25, Monday
Withdrawal ("W") period begins

August 30, Saturday – September 1
University Computing Services unavailable

September 1, Monday
Labor Day Holiday – University closed

September 5, Friday
Last day to submit graduation application for Fall 2025 via myMU (https://www.marshall.edu/registrar/files/How-to-Apply-for-Graduation.pdf)

September 26, Friday
Last day to withdraw from 1st 7 weeks courses

October 3, Friday
1st 7 weeks courses end
Tentative Graduation Lists Due from each Academic College

October 6, Monday
Midterm grades due

October 9, Thursday - October 10, Friday
October break - classes dismissed

October 13, Monday
2nd 7 weeks courses begin

October 20, Monday
Students should schedule appointments with advisors

TBA
Countdown to Commencement

November 3, Monday - November 14, Friday
Recommended date to apply for Spring 2026 graduation, after registered for spring courses (https://epay.marshall.edu/secure/cgi/graduationfees.cgi?ticket=ST-482c778e4e578bf80dd7decf397859957119041625)

November 3, Monday – November 14, Friday
Advance registration for spring semester (open only to currently registered students)

November 14, Friday
Approved thesis/dissertation must be submitted to the ETD website for final review

November 17, Monday
Advance registration for spring semester (open to admitted students)

November 21, Friday
Last day to withdraw from 2nd 7 weeks courses

November 21, Friday
Last day to withdraw from a full semester individual course

November 22, Saturday
Residence halls close

November 24, Monday – December 5, Friday

Complete withdrawals only

November 24, Monday – November 28, Friday
Thanksgiving Break – classes dismissed

November 27, Thursday – November 28, Friday
Thanksgiving Holiday – University closed

November 30, Sunday
Residence halls open

December 1, Monday
Classes resume

December 1, Monday – December 5, Friday
Pre-Finals Week

December 5, Friday
Last class day

December 5, Friday
Last day to completely withdraw from fall semester

December 6, Saturday
Exam day for Saturday classes

December 8, Monday
Exam day

December 9, Tuesday
Exam day

December 10, Wednesday
Study day/Common Finals/Exams resume at 3 pm for Wednesday evening classes

December 11, Thursday
Exam day

December 12, Friday
Exam day

December 13, Saturday
Winter Commencement, Marshall Health Network Arena/Official December graduation date

December 14, Sunday, Noon
Residence halls close

December 15, Monday, Noon
Final grades due

December 23, 2025, Tuesday – January 1, 2026, Thursday
Winter Break – University closed

January 7, Wednesday
Final graduation lists due from each Academic College

SPRING 2026 SEMESTER (15 WEEKS)

January 2, Friday
University reopens

January 2, Friday – January 11, Sunday
Registration/schedule adjustment

January 9, Friday
Residence halls open

January 12, Monday
First day of classes

January 12, Monday – January 16, Friday
Late registration/schedule adjustment

January 16, Friday
Last day to add a class

January 19, Monday
Martin Luther King, Jr. Holiday – University closed

January 20, Tuesday
Withdrawal ("W") period begins

January 30, Friday
Last day to submit graduation application for Spring 2026 via myMU (https://www.marshall.edu/registrar/files/How-to-Apply-for-Graduation.pdf)

February 12, Thursday - February 13, Friday
February break, classes dismissed

February 20, Friday
Last day to withdraw from 1st 7 weeks courses

February 27, Friday
1st 7 weeks courses end
Tentative Graduation Lists due from each Academic College

March 2, Monday
Midterm grades due

March 2, Monday
2nd 7 weeks courses begin

March 9, Monday
Recommended date to apply for Summer 2026 graduation, once registered for summer courses (https://epay.marshall.edu/secure/cgi/graduationfees.cgi?ticket=ST-dc7b50e30819c55fbef3723de2e530c3ab83a39cc9)

March 9, Monday
Advance registration for summer (open only to currently registered students)

March 14, Saturday
Residence halls close

March 16, Monday
Advance registration for summer (open to admitted students)

March 16, Monday – March 20, Friday
Spring Break – classes dismissed

March 21, Saturday
Residence halls open

March 23, Monday
Classes resume

March 23, Monday
Students should schedule appointments with advisors

TBD
Countdown to Commencement

April 6, Monday
Recommended date to apply for Winter 2026 graduation, once registered for fall courses (https://epay.marshall.edu/secure/cgi/graduationfees.cgi?ticket=ST-3bf92810d208a743b181082c85fcab3e76bd80784b)

April 6, Monday – April 17, Friday
Advance registration for fall semester (open only to currently registered students)

April 10, Friday
Approved thesis/dissertation must be submitted to the ETD website for final review

April 20, Monday
Advance registration for fall semester (open to admitted students)

April 24, Friday
Last day to withdraw from 2nd 7 weeks courses

April 24, Friday
Last day to withdraw from a full semester individual course

April 27, Monday - May 1, Friday
Complete withdrawals only

April 27, Monday – May 1, Friday
Pre-Finals Week

May 1, Friday
Last class day

May 1, Friday
Last day to completely withdraw from spring semester

May 2, Saturday
Exam day for Saturday classes

May 4, Monday
Exam Day

May 5, Tuesday
Exam Day

May 6, Wednesday
Study day/Common Finals/Exams resume at 3 pm for Wednesday evening classes

May 7, Thursday
Exam Day

May 8, Friday
Exam Day

May 9, Saturday
Spring Commencement, Marshall Health Network Arena/Official Spring graduation date

May 10, Sunday, Noon
Residence halls close

May 11, Monday, Noon
Final grades due
All requirements must be met for degree completion

May 22, Friday
Final graduation lists due from each Academic College

Graduate A-Z Index

A

- About Marshall University (p. 7)
- Academic Information and Resources (p. 43)
- Academic Requirements and Regulations (p. 47)
- Accessibility Awareness, Graduate Certificate (p. 274)
- Accountancy (ACC) (p. 366)
- Accountancy, M.S. (p. 91)
- Accounting, Area of Emphasis in D.B.A. (p. 94)
- Accreditations (p. 12)
- Admissions (p. 13)
- Adult & Continuing Education (ACE) (p. 368)
- Adult and Continuing Education, M.S. (p. 133)
- Adult Education and Evaluation (p. 135)
- Advanced Standing Behavioral Health Administration, Emphasis (p. 242)
- Aging in Appalachia, Graduate Certificate (p. 274)
- Anatomy & Cell Biology (ACB) (p. 371)
- Anesthesia (ANS) (p. 373)
- Anthropology (ANT) (p. 373)
- Anthropology, Minor (p. 275)
- Appalachian Studies, Graduate Certificate (p. 275)
- Applied Behavior Analysis (ABA) (p. 374)
- Applied Behavior Analysis, M.A. (p. 135)
- Applied Music (MUSA) (p. 374)
- Applied Music Performance (p. 77)
- Art (ART) (p. 375)
- Arts & Society-Humanities (A&S) (p. 376)
- Athletic Training (Professional), M.S. (p. 211)

B

- Behavioral Health Practice, Emphasis (p. 243)
- Behavioral Statistics, Graduate Certificate (p. 275)
- Biochemistry (BIC) (p. 377)
- Biological Science (BSC) (p. 377)
- Biological Sciences M.A., Accelerated Graduate Degree (p. 316)
- Biological Sciences M.S., Accelerated Graduate Degree (p. 316)
- Biological Sciences, M.A. (p. 317)
- Biological Sciences, M.S. (p. 318)
- Biomechanics, M.S. (p. 213)
- Biomedical Research (BMR) (p. 380)
- Biomedical Research, M.D./Ph.D. (p. 342)
- Biomedical Research, M.S. (p. 345)
- Biomedical Research, Ph.D. (p. 346)
- Biomedical Science (BMS) (p. 381)
- Business Administration, D.B.A. (p. 92)

- Business Administration, M.B.A. (p. 94)
- Business Analysis and Reporting, Emphasis (p. 92)

C

- Cardiovascular Disease (p. 348)
- Cardiovascular Services (CVS) (p. 381)
- Career and Technical Center Teaching (p. 135)
- Cell Biology (p. 348)
- Chemistry (CHM) (p. 381)
- Chemistry, M.S. (p. 319)
- Civil and Environmental Engineering, Accelerated Graduate Degree (p. 174)
- Civil and Environmental Engineering, M.S.E. (p. 174)
- Civil Engineering (CE) (p. 383)
- Classics (CL) (p. 383)
- Clinical and Translational Science, M.S. (p. 348)
- Clinical Informatics (p. 349)
- Clinical Mental Health Counseling (p. 139)
- Clinical Psychology (p. 296)
- Clinical Research (p. 349)
- Clinical Translational Science (CTS) (p. 384)
- Clinical Trials (p. 350)
- College of Arts and Media (p. 69)
- College of Education and Professional Development (p. 104)
- College of Engineering and Computer Sciences (p. 162)
- College of Health Professions (p. 194)
- College of Liberal Arts (p. 246)
- College of Science (p. 302)
- Communication Disorders (CD) (p. 385)
- Communication Disorders, M.S. (p. 213)
- Communication Studies (CMM) (p. 387)
- Communication Studies, M.A. (p. 276)
- Computer & Info Security (CYBR) (p. 388)
- Computer Science (CS) (p. 389)
- Computer Science, Accelerated Graduate Degree (p. 176)
- Computer Science, M.S. (p. 177)
- Contact Directory (p. 6)
- Counseling (COUN) (p. 391)
- Counseling, Accelerated Graduate Degree (p. 136)
- Counseling, M.A. (p. 136)
- Counseling, R.B.A. Accelerated Graduate Degree (p. 140)
- Courses A-Z (p. 365)
- Crime Scene Investigation, Emphasis (p. 325)
- Criminal Justice (CJ) (p. 396)
- Criminal Justice, Accelerated Graduate Degree (p. 320)
- Criminal Justice, M.S. (p. 321)
- Criminal Justice, Minor (p. 322)
- Cultural Studies-Humanities (CULS) (p. 398)
- Curr & Inst (CI) (p. 399)
- Curr & Inst - Educa Computing (CIEC) (p. 402)
- Curr & Inst - Math Educa (CIME) (p. 403)
- Curr & Inst - Deaf And Hard Of Hearing (CIDH) (p. 404)
- Curr & Inst - Literacy Educa (CIRG) (p. 404)
- Curr & Inst - Visually Impaired (CIVI) (p. 406)
- Curr & Inst Science Educa (CISE) (p. 407)
- Curr & Inst Second Lang (CISL) (p. 408)
- Curr Inst Special Ed (CISP) (p. 409)
- Curriculum and Instruction, Ed.D. (p. 141)
- Curriculum and Instruction, Emphasis in Ed.S. (p. 148)
- Cyber Forensics and Security (CFS) (p. 411)
- Cybersecurity and Policy, Emphasis (p. 298)
- Cybersecurity, Accelerated Graduate Degree (p. 178)
- Cybersecurity, M.S. (p. 179)

D

- Data Analytics in Health Care, Graduate Certificate (p. 96)
- Data Science, Accelerated Graduate Degree (p. 180)
- Data Science, M.S. (p. 181)
- Deaf and Hard of Hearing (p. 158)
- Degree Programs by College (p. 65)
- Dermatology (DERM) (p. 412)
- Dietetics (DTS) (p. 412)
- Dietetics, M.S. (p. 217)
- Digital Forensics, Emphasis (p. 325)
- Digital Forensics, Graduate Certificate (p. 322)
- DNA Analysis, Emphasis (p. 325)
- Doctor-Business Administration (DBA) (p. 413)

E

- Early Childhood Education (ECE) (p. 414)
- Early Childhood Education, Emphasis in M.A. (p. 146)
- Early Childhood Education, Graduate Certificate (p. 143)
- Economics (ECN) (p. 414)
- Education, M.A. (p. 144)
- Educational Foundations (EDF) (p. 415)
- Educational Leadership, Emphasis (p. 152)
- Educational Leadership, Post Masters Certificate (p. 148)
- Educational Specialist, Ed.S. (p. 148)
- Electrical and Computer Engineering M.S.E.E. (p. 182)
- Electrical and Computer Engineering, Accelerated Graduate Degree (p. 184)
- Electrical Engineering (EE) (p. 416)
- Elementary Mathematics Specialist, Emphasis in M.A. (p. 147)
- Elementary Mathematics Specialist, Graduate Certificate (p. 149)
- Emergency Medical Services (EMS) (p. 418)
- Engineering & Science (ENGR) (p. 418)
- Engineering Management (EM) (p. 419)
- Engineering Management, B.S.C.E. Accelerated Graduate Degree (p. 184)
- Engineering Management, B.S.E.E. Accelerated Graduate Degree (p. 185)
- Engineering Management, M.S.E. (p. 186)
- Engineering, Ph.D. (p. 187)
- English (ENG) (p. 420)
- English, M.A. (p. 276)

- Entrepreneurship (ENT) (p. 423)
- Environmental Engineering (ENVE) (p. 423)
- Environmental Safety and Health, Accelerated Graduate Degree (p. 189)
- Environmental Science (ES) (p. 424)
- Environmental Science, Minor (p. 190)
- Environmental, Safety and Health, M.S. (p. 190)
- Exercise Physiology, M.S. (p. 218)
- Exercise Science and Sport (ESS) (p. 426)

F

- Faculty (p. 515)
- Family Community Health (FCH) (p. 428)
- Family Nurse Practitioner (p. 225)
- Family Nurse Practitioner Program, Post Master's Certificate (p. 219)
- Finance (FIN) (p. 430)
- Financial Information: Tuition, Fees, and Financial Assistance (p. 20)
- Forensic Chemistry, Emphasis (p. 326)
- Forensic Science (FSC) (p. 430)
- Forensic Science, M.S. (p. 323)
- French (FRN) (p. 433)

G

- Geobiophysical Science, Minor (p. 326)
- Geography (GEO) (p. 433)
- Geography M.A., Accelerated Graduate Degree (p. 277)
- Geography M.S., Accelerated Graduate Degree (p. 278)
- Geography, M.A. (p. 279)
- Geography, M.S. (p. 280)
- Geography, Minor (p. 281)
- Geology (GLY) (p. 435)
- Geospatial Information Science, Graduate Certificate (p. 282)
- Gerontology Social Work, Graduate Certificate (p. 219)
- Government Relations, Emphasis (p. 298)
- Graduate A-Z Index (p. 517)
- Graduate Programs A-Z (p. 67)
- Graduate Student Resources (p. 38)
- Graduate Studies (p. 9)

H

- Health Care Administration (HCA) (p. 436)
- Health Care Administration, M.S. (p. 96)
- Health Care Management, Area of Emphasis in D.B.A. (p. 94)
- Health Education (HE) (p. 437)
- Health Informatics (HIN) (p. 437)
- Health Informatics, M.S. (p. 98)
- Health Professions (HP) (p. 438)
- Health Science (HS) (p. 439)
- Historical Studies-Humanities (HIST) (p. 441)
- History (HST) (p. 441)
- History, M.A. (p. 283)
- History, Minor (p. 284)
- Human Geography, Graduate Certificate (p. 284)
- Human Resource Management (HRM) (p. 443)
- Human Resource Management, M.S. (p. 99)
- Humanities (HUMN) (p. 444)
- Humanities, M.A. (p. 284)

I

- Individualized Plan of Study, Emphasis in M.A. (p. 147)
- Information Systems and Controls, Emphasis (p. 92)
- Information Systems, Accelerated Graduate Degree (p. 100)
- Information Systems, M.S. (p. 100)
- Instruct Tech-Library Science (ITL) (p. 445)
- Instructional Processes and Strategies, Emphasis in M.A. (p. 147)
- Instructional Technology and Learning, Emphasis in M.A. (p. 147)
- Instructional Technology and Learning, Graduate Certificate (p. 149)
- Interdisciplinary Medicine (IDM) (p. 446)

J

- Jazz Studies (p. 77)

L

- Lab Management, Graduate Certificate (p. 101)
- Latin (LAT) (p. 447)
- Latin, Graduate Certificate (p. 285)
- Leadership Specialist, Emphasis (p. 152)
- Leadership Studies (LS) (p. 448)
- Leadership Studies, Ed.D. (p. 149)
- Leadership Studies, M.A. (p. 151)
- Legal Environment (LE) (p. 452)
- Lewis College of Business (p. 79)
- Library Science (LSC) (p. 452)
- Library Science, M.S. (p. 333)
- Literacy Education, Graduate Certificate (p. 153)
- Literacy Education, M.A. (p. 153)
- Literary Studies-Humanities (LITS) (p. 453)

M

- Management (MGT) (p. 453)
- Management and Entrepreneurship, Area of Emphasis in D.B.A. (p. 94)
- Management Information Systems (MIS) (p. 455)
- Marketing (MKT) (p. 456)
- Mathematics (MTH) (p. 457)
- Mathematics through Algebra I, Emphasis in M.A. (p. 147)
- Mathematics through Algebra I, Graduate Certificate (p. 154)
- Mathematics, M.S. (p. 326)
- Mathematics, Minor (p. 328)
- Mechanical Engineering (ME) (p. 458)
- Mechanical Engineering, M.S.M.E. (p. 191)
- Medical Curriculum (MDC) (p. 459)
- Medical Science, Graduate Certificate (p. 350)

- Medicine (MED) (p. 461)
- Meteorology, Graduate Certificate (p. 286)
- Mgt Prac Nurse Anesthesia (MPNA) (p. 462)
- Microbiology (MCB) (p. 464)
- Mine Safety (MSF) (p. 465)
- Mine Safety Emphasis (p. 193)
- Multi-Categorical Special Ed (p. 159)
- Music (MUS) (p. 466)
- Music Composition, Emphasis (p. 77)
- Music Education (p. 78)
- Music Ensembles (MUSE) (p. 469)
- Music History and Literature (p. 78)
- Music Program (MUSP) (p. 470)
- Music, M.A. (p. 75)

N

- Nat Resources & Environment (NRE) (p. 470)
- Natural Res Rec Mgt (NRRM) (p. 471)
- Natural Resources and the Environment, M.S. (p. 328)
- Neurobiology and Addiction (p. 348)
- Neurology (NEU) (p. 472)
- Nonprofit Leadership, Emphasis (p. 298)
- Nonprofit Management, Graduate Certificate (p. 286)
- Nurse Anesthesia Practice, D.N.A.P. (p. 101)
- Nurse Midwifery (p. 226)
- Nursing (NUR) (p. 472)
- Nursing Administration (p. 227)
- Nursing Education (p. 227)
- Nursing Practice, D.N.P. (p. 220)
- Nursing, M.S.N. (p. 222)

O

- Obesity and Related Diseases (p. 348)
- Obstetrics/Gynecology (OBG) (p. 475)
- Ophthalmology (OPH) (p. 476)
- Orthopaedics (ORT) (p. 476)

P

- Pathology (PTH) (p. 477)
- Pediatrics (PED) (p. 477)
- Pharmaceutical Sciences (MSPS) (p. 478)
- Pharmaceutical Sciences, B.S. to Pharm.D. (3+4 Accelerated Program) (p. 358)
- Pharmaceutical Sciences, M.A. (Non-Thesis Option) (p. 359)
- Pharmaceutical Sciences, M.S. (p. 360)
- Pharmacology (PMC) (p. 478)
- Pharmacy (PHAR) (p. 479)
- Pharmacy, Dual Degree: Pharm.D. and M.B.A. (p. 361)
- Pharmacy, Pharm.D. (p. 361)
- Philosophy (PHL) (p. 483)
- Philosophy, Minor (p. 286)
- Physical and Applied Sciences, Geology Emphasis (p. 330)
- Physical and Applied Sciences, M.S. (p. 329)
- Physical Science (PS) (p. 484)
- Physical Therapy (PT) (p. 485)
- Physical Therapy, D.P.T. (p. 228)
- Physical Therapy, Dual Degree: D.P.T. and M.B.A. (p. 234)
- Physician Assistant (p. 488)
- Physician Assistant, M.M.S. (p. 351)
- Physics (PHY) (p. 490)
- Physics for Teachers, Emphasis (p. 330)
- Physics, Accelerated Graduate Degree (p. 331)
- Physics, M.S. (p. 331)
- Physiology (PHS) (p. 491)
- Planning and Economic Development, Emphasis (p. 299)
- Political Science (PSC) (p. 492)
- Post-Baccalaureate Teacher Certificate (p. 154)
- Preschool Special Education (p. 159)
- Psychiatric Mental Health Nurse Practitioner (p. 227)
- Psychiatry (PSI) (p. 492)
- Psychology (Clinical), Post-Master's Certificate (p. 286)
- Psychology (Clinical), Psy.D. (p. 287)
- Psychology (PSY) (p. 493)
- Psychology, Accelerated Graduate Degree (p. 292)
- Psychology, M.A. (p. 293)
- Psychology, Minor (p. 296)
- Public Administration (PADM) (p. 498)
- Public Administration, Accelerated Graduate Degree (p. 296)
- Public Administration, M.P.A. (p. 297)
- Public Health (PH) (p. 499)
- Public Health, Accelerated Graduate Degree (p. 235)
- Public Health, M.P.H. (p. 236)
- Public History, Graduate Certificate (p. 299)

R

- Radiology (RAD) (p. 501)
- Religious Studies (RST) (p. 501)

S

- Safety Technology (SFT) (p. 501)
- Safety, M.S. (p. 193)
- Safety, Minor (p. 194)
- School Counseling, Emphasis (p. 139)
- School Library Media Specialist, Emphasis in M.A. (p. 147)
- School Library Media Specialist, Graduate Certificate (p. 155)
- School of Library Science (p. 332)
- School of Medicine (p. 335)
- School of Pharmacy (p. 353)
- School Psychology (p. 296)
- School Psychology (SPSY) (p. 503)
- School Psychology, Ed.S. (p. 156)
- School Social Work, Graduate Certificate (p. 236)
- School Superintendent, Licensure (p. 157)
- Social Service and Attendance, Certificate/Licensure (p. 157)

- Social Studies (SOS) (p. 504)
- Social Work (SWK) (p. 504)
- Social Work, Accelerated Graduate Degree (p. 237)
- Social Work, M.S.W. (p. 238)
- Sociology (SOC) (p. 506)
- Sociology, Accelerated Graduate Degree (p. 299)
- Sociology, M.A. (p. 300)
- Sociology, Minor (p. 301)
- Spanish (SPN) (p. 508)
- Special Education, M.A. (p. 157)
- Sport Administration, Accelerated Graduate Degree (p. 101)
- Sport Administration, M.S. (p. 102)
- Sport Tourism Hospitality Mgt (STHM) (p. 510)
- Sports Science, M.S. (p. 244)
- Statistics (STA) (p. 511)
- Statistics, Emphasis (p. 328)
- Strength and Conditioning, M.S. (p. 245)
- Student Financial Assistance (p. 26)
- Supervisor of Instruction, Licensure (p. 159)
- Surgery (SUR) (p. 512)

T

- Tax Compliance and Planning, Emphasis (p. 92)
- Teaching English as a Second Language (Non-Licensure), Graduate Certificate (p. 160)
- Teaching English as a Second Language, Non-Licensure, Emphasis in M.A. (p. 147)
- Teaching, M.A.T. (p. 160)
- Technology and Engineering (TE) (p. 513)
- Technology Management (TM) (p. 513)
- Technology Management, Graduate Certificate (p. 103)
- Theatre (THE) (p. 514)
- Toxicology and Environmental Health Sciences (p. 348)

U

- University Calendar (p. 515)
- University Policies and Procedures (p. 30)

V

- Violence, Loss and Trauma Counseling, Graduate Certificate (p. 161)
- Visually Impaired (p. 159)

W

- Women's Studies, Graduate Certificate (p. 302)

INDEX

A

About Marshall University 7
Academic Information and Resources 43
Academic Requirements and Regulations 47
Accessibility Awareness, Graduate Certificate 274
Accountancy (ACC) 366
Accountancy, M.S. 91
Accounting, Area of Emphasis in D.B.A. 94
Accreditations 12
Admissions 13
Adult & Continuing Education (ACE) 368
Adult and Continuing Education, M.S. 133
Adult Education and Evaluation 135
Advanced Standing Behavioral Health Administration, Emphasis 242
Aging in Appalachia, Graduate Certificate 274
Anatomy & Cell Biology (ACB) 371
Anesthesia (ANS) 373
Anthropology (ANT) 373
Anthropology, Minor 275
Appalachian Studies, Graduate Certificate 275
Applied Behavior Analysis (ABA) 374
Applied Behavior Analysis, M.A. 135
Applied Music (MUSA) 374
Applied Music Performance 77
Art (ART) 375
Arts & Society-Humanities (A&S) 376
Athletic Training (Professional), M.S. 211

B

Behavioral Health Practice, Emphasis 243
Behavioral Statistics, Graduate Certificate 275
Biochemistry (BIC) 377
Biological Science (BSC) 377
Biological Sciences, M.A. 317
Biological Sciences M.A., Accelerated Graduate Degree 316
Biological Sciences, M.S. 318
Biological Sciences M.S., Accelerated Graduate Degree 316
Biomechanics, M.S. 213
Biomedical Research (BMR) 380
Biomedical Research, M.D./Ph.D. 342
Biomedical Research, M.S. 345
Biomedical Research, Ph.D. 346
Biomedical Science (BMS) 381
Business Administration, D.B.A. 92
Business Administration, M.B.A. 94
Business Analysis and Reporting, Emphasis 92

C

Cardiovascular Disease 348
Cardiovascular Services (CVS) 381
Career and Technical Center Teaching 135
Cell Biology 348
Chemistry (CHM) 381
Chemistry, M.S. 319
Civil and Environmental Engineering, Accelerated Graduate Degree . 174
Civil and Environmental Engineering, M.S.E. 174
Civil Engineering (CE) 383
Classics (CL) 383
Clinical and Translational Science, M.S. 348
Clinical Informatics 349
Clinical Mental Health Counseling 139
Clinical Psychology 296
Clinical Research 349
Clinical Translational Science (CTS) 384
Clinical Trials 350
College of Arts and Media 69
College of Education and Professional Development 104
College of Engineering and Computer Sciences 162
College of Health Professions 194
College of Liberal Arts 246
College of Science 302
Communication Disorders (CD) 385
Communication Disorders, M.S. 213
Communication Studies (CMM) 387
Communication Studies, M.A. 276
Computer & Info Security (CYBR) 388
Computer Science, Accelerated Graduate Degree 176
Computer Science (CS) 389
Computer Science, M.S. 177
Contact Directory 6
Counseling, Accelerated Graduate Degree 136
Counseling (COUN) 391
Counseling, M.A. 136
Counseling, R.B.A. Accelerated Graduate Degree 140

Courses A-Z 365
Crime Scene Investigation, Emphasis 325
Criminal Justice, Accelerated Graduate Degree 320
Criminal Justice (CJ) 396
Criminal Justice, M.S. 321
Criminal Justice, Minor 322
Cultural Studies-Humanities (CULS) 398
Curr & Inst - Educa Computing (CIEC) 402
Curr & Inst - Math Educa (CIME) 403
Curr & Inst - Deaf And Hard Of Hearing (CIDH) 404
Curr & Inst - Literacy Educa (CIRG) 404
Curr & Inst - Visually Impaired (CIVI) 406
Curr & Inst (CI) 399
Curr & Inst Science Educa (CISE) 407
Curr & Inst Second Lang (CISL) 408
Curr Inst Special Ed (CISP) 409
Curriculum and Instruction, Ed.D. 141
Curriculum and Instruction, Emphasis in Ed.S. 148
Cyber Forensics and Security (CFS) 411
Cybersecurity, Accelerated Graduate Degree 178
Cybersecurity and Policy, Emphasis 298
Cybersecurity, M.S. 179

D

Data Analytics in Health Care, Graduate Certificate 96
Data Science, Accelerated Graduate Degree 180
Data Science, M.S. 181
Deaf and Hard of Hearing 158
Degree Programs by College 65
Dermatology (DERM) 412
Dietetics (DTS) 412
Dietetics, M.S. 217
Digital Forensics, Emphasis 325
Digital Forensics, Graduate Certificate 322
DNA Analysis, Emphasis 325
Doctor-Business Administration (DBA) 413

E

Early Childhood Education (ECE) 414
Early Childhood Education, Emphasis in M.A. 146
Early Childhood Education, Graduate Certificate 143
Economics (ECN) 414
Education, M.A. 144
Educational Foundations (EDF) 415
Educational Leadership, Emphasis 152
Educational Leadership, Post Masters Certificate 148
Educational Specialist, Ed.S. 148
Electrical and Computer Engineering, Accelerated Graduate Degree 184
Electrical and Computer Engineering M.S.E.E. 182
Electrical Engineering (EE) 416
Elementary Mathematics Specialist, Emphasis in M.A. 147
Elementary Mathematics Specialist, Graduate Certificate 149
Emergency Medical Services (EMS) 418
Engineering & Science (ENGR) 418
Engineering Management, B.S.C.E. Accelerated Graduate Degree ... 184
Engineering Management, B.S.E.E. Accelerated Graduate Degree ... 185
Engineering Management (EM) 419
Engineering Management, M.S.E. 186
Engineering, Ph.D. 187
English (ENG) 420
English, M.A. 276
Entrepreneurship (ENT) 423
Environmental Engineering (ENVE) 423
Environmental Safety and Health, Accelerated Graduate Degree 189
Environmental, Safety and Health, M.S. 190
Environmental Science (ES) 424
Environmental Science, Minor 190
Exercise Physiology, M.S. 218
Exercise Science and Sport (ESS) 426

F

Faculty 515
Family Community Health (FCH) 428
Family Nurse Practitioner 225
Family Nurse Practitioner Program, Post Master's Certificate 219
Finance (FIN) 430
Financial Information: Tuition, Fees, and Financial Assistance 20
Forensic Chemistry, Emphasis 326
Forensic Science (FSC) 430
Forensic Science, M.S. 323
French (FRN) 433

G

Geobiophysical Science, Minor 326
Geography (GEO) 433
Geography, M.A. 279
Geography M.A., Accelerated Graduate Degree 277
Geography, M.S. 280

Geography M.S., Accelerated Graduate Degree 278
Geography, Minor 281
Geology (GLY) 435
Geospatial Information Science, Graduate Certificate 282
Gerontology Social Work, Graduate Certificate 219
Government Relations, Emphasis 298
Graduate 6
Graduate A-Z Index 517
Graduate Programs A-Z 67
Graduate Student Resources 38
Graduate Studies 9

H

Health Care Administration (HCA) 436
Health Care Administration, M.S. 96
Health Care Management, Area of Emphasis in D.B.A. 94
Health Education (HE) 437
Health Informatics (HIN) 437
Health Informatics, M.S. 98
Health Professions (HP) 438
Health Science (HS) 439
Historical Studies-Humanities (HIST) 441
History (HST) 441
History, M.A. 283
History, Minor 284
Human Geography, Graduate Certificate 284
Human Resource Management (HRM) 443
Human Resource Management, M.S. 99
Humanities (HUMN) 444
Humanities, M.A. 284

I

Individualized Plan of Study, Emphasis in M.A. 147
Information Systems, Accelerated Graduate Degree 100
Information Systems and Controls, Emphasis 92
Information Systems, M.S. 100
Instruct Tech-Library Science (ITL) 445
Instructional Processes and Strategies, Emphasis in M.A. 147
Instructional Technology and Learning, Emphasis in M.A. 147
Instructional Technology and Learning, Graduate Certificate 149
Interdisciplinary Medicine (IDM) 446

J

Jazz Studies 77

L

Lab Management, Graduate Certificate 101
Latin, Graduate Certificate 285
Latin (LAT) 447
Leadership Specialist, Emphasis 152
Leadership Studies, Ed.D. 149
Leadership Studies (LS) 448
Leadership Studies, M.A. 151
Legal Environment (LE) 452
Lewis College of Business 79
Library Science (LSC) 452
Library Science, M.S. 333
Literacy Education, Graduate Certificate 153
Literacy Education, M.A. 153
Literary Studies-Humanities (LITS) 453

M

Management and Entrepreneurship, Area of Emphasis in D.B.A. 94
Management Information Systems (MIS) 455
Management (MGT) 453
Marketing (MKT) 456
Mathematics, M.S. 326
Mathematics, Minor 328
Mathematics (MTH) 457
Mathematics through Algebra I, Emphasis in M.A. 147
Mathematics through Algebra I, Graduate Certificate 154
Mechanical Engineering, M.S.M.E. 191
Mechanical Engineering (ME) 458
Medical Curriculum (MDC) 459
Medical Science, Graduate Certificate 350
Medicine (MED) 461
Meteorology, Graduate Certificate 286
Mgt Prac Nurse Anesthesia (MPNA) 462
Microbiology (MCB) 464
Mine Safety Emphasis 193
Mine Safety (MSF) 465
Multi-Categorical Special Ed 159
Music Composition, Emphasis 77
Music Education 78
Music Ensembles (MUSE) 469
Music History and Literature 78
Music, M.A. 75
Music (MUS) 466

Music Program (MUSP) 470

N

Nat Resources & Environment (NRE) 470
Natural Res Rec Mgt (NRRM) 471
Natural Resources and the Environment, M.S. 328
Neurobiology and Addiction 348
Neurology (NEU) 472
Nonprofit Leadership, Emphasis 298
Nonprofit Management, Graduate Certificate 286
Nurse Anesthesia Practice, D.N.A.P. 101
Nurse Midwifery 226
Nursing Administration 227
Nursing Education 227
Nursing, M.S.N. 222
Nursing (NUR) 472
Nursing Practice, D.N.P. 220

O

Obesity and Related Diseases 348
Obstetrics/Gynecology (OBG) 475
Ophthalmology (OPH) 476
Orthopaedics (ORT) 476

P

Pathology (PTH) 477
Pediatrics (PED) 477
Pharmaceutical Sciences, B.S. to Pharm.D. (3+4 Accelerated Program) 358
Pharmaceutical Sciences, M.A. (Non-Thesis Option) 359
Pharmaceutical Sciences, M.S. 360
Pharmaceutical Sciences (MSPS) 478
Pharmacology (PMC) 478
Pharmacy, Dual Degree: Pharm.D. and M.B.A. 361
Pharmacy (PHAR) 479
Pharmacy, Pharm.D. 361
Philosophy, Minor 286
Philosophy (PHL) 483
Physical and Applied Sciences, Geology Emphasis 330
Physical and Applied Sciences, M.S. 329
Physical Science (PS) 484
Physical Therapy, D.P.T. 228
Physical Therapy, Dual Degree: D.P.T. and M.B.A. 234
Physical Therapy (PT) 485
Physician Assistant 488
Physician Assistant, M.M.S. 351
Physics, Accelerated Graduate Degree 331
Physics for Teachers, Emphasis 330
Physics, M.S. 331
Physics (PHY) 490
Physiology (PHS) 491
Planning and Economic Development, Emphasis 299
Political Science (PSC) 492
Post-Baccalaureate Teacher Certificate 154
Preschool Special Education 159
Psychiatric Mental Health Nurse Practitioner 227
Psychiatry (PSI) 492
Psychology, Accelerated Graduate Degree 292
Psychology (Clinical), Post-Master's Certificate 286
Psychology (Clinical), Psy.D. 287
Psychology, M.A. 293
Psychology, Minor 296
Psychology (PSY) 493
Public Administration, Accelerated Graduate Degree 296
Public Administration, M.P.A. 297
Public Administration (PADM) 498
Public Health, Accelerated Graduate Degree 235
Public Health, M.P.H. 236
Public Health (PH) 499
Public History, Graduate Certificate 299

R

Radiology (RAD) 501
Religious Studies (RST) 501

S

Safety, M.S. 193
Safety, Minor 194
Safety Technology (SFT) 501
School Counseling, Emphasis 139
School Library Media Specialist, Emphasis in M.A. 147
School Library Media Specialist, Graduate Certificate 155
School of Library Science 332
School of Medicine 335
School of Pharmacy 353
School Psychology 296
School Psychology, Ed.S. 156
School Psychology (SPSY) 503
School Social Work, Graduate Certificate 236

School Superintendent, Licensure 157
Social Service and Attendance, Certificate/Licensure 157
Social Studies (SOS) 504
Social Work, Accelerated Graduate Degree 237
Social Work, M.S.W. 238
Social Work (SWK) 504
Sociology, Accelerated Graduate Degree 299
Sociology, M.A. 300
Sociology, Minor 301
Sociology (SOC) 506
Spanish (SPN) 508
Special Education, M.A. 157
Sport Administration, Accelerated Graduate Degree 101
Sport Administration, M.S. 102
Sport Tourism Hospitality Mgt (STHM) 510
Sports Science, M.S. 244
Statistics, Emphasis 328
Statistics (STA) 511
Strength and Conditioning, M.S. 245
Student Financial Assistance 26
Supervisor of Instruction, Licensure 159
Surgery (SUR) 512

T

Tax Compliance and Planning, Emphasis 92
Teaching English as a Second Language, Non-Licensure, Emphasis in M.A. 147
Teaching English as a Second Language (Non-Licensure), Graduate Certificate 160
Teaching, M.A.T. 160
Technology and Engineering (TE) 513
Technology Management, Graduate Certificate 103
Technology Management (TM) 513
Theatre (THE) 514
Toxicology and Environmental Health Sciences 348

U

University Calendar 515
University Policies and Procedures 30

V

Violence, Loss and Trauma Counseling, Graduate Certificate 161
Visually Impaired 159

W

Women's Studies, Graduate Certificate 302