

COLLEGE OF SCIENCE – IST – COMPUTER INFORMATION AND TECHNOLOGY REQUIREMENTS

Name _____ Date _____

A 2.0 GPA is required for graduation.

COMPLETED COLLEGE OF SCIENCE SPECIFIC REQUIREMENTS

3 hours, Literature

COMPLETED MAJOR SPECIFIC REQUIREMENTS

Required Connections Courses

IST 120 Connections I * 3 _____
 IST 220 Connections II * (PR: IST 120 & Soph) 3 _____
 *Core I Critical Thinking Requirement

Required Computing Courses

IST 160 Intro to Programming 3 _____
 IST 260 Instrumentation 3 _____

Required Science Courses

IST 111 Living Systems ** OR BSC 120 4 _____
 IST 212 Energy OR 3 _____
 PHY 201/202 Physics I & Lab ** 3, 1 _____
 (Prereq. MTH 229, 132, OR 127/130/140 AND 122)

Required Mathematics Courses

IST 130 Analytical I (Prereq ACT 21 OR MTH 130/127 AND 122) 4 _____
 MTH 140 (ACT 24 OR MTH 130/127 AND 122) 3 _____

**Meets College and Core II Science requirements

Required Core Courses

IST 163 Programming C++ 3 _____
 IST 224 Intro Forensic Science ** 4 _____
 IST 263 Web Programming 3 _____
 IST 264 Tech Foundations 3 _____
 IST 365 Database Management 3 _____
 IST 362 Network Protocols 3 _____
 MGT 320 or IST 350 3 _____
 IST 301 Public Service (Advisor permission) 1 _____
 IST 490 Sr Capstone Project I (permission) 3 _____
 IST 491 Sr Capstone Project II OR 3 _____
 IST 470 Internship (permission)

Choose an Area of Emphasis/Specialization Below

Computer and Information Technology Major-Computer Application Development Area of Emphasis

IST 236 Data Structures	3	_____	IST 334 Programming Languages	3	_____
IST 238 Algorithms	3	_____	IST 423 GIS & Data Systems	3	_____
IST 303 C# .NET Programming	3	_____	IST 430 E-Commerce	3	_____
IST 332 Software Engineering I	3	_____	Technical Elective _____	3	_____
IST 333 Software Engineering II	3	_____			

Computer and Information Technology Major-Web Application Development Area of Emphasis^s

^sWill require taking additional courses outside of those listed in the 4-year suggested plan to achieve the additional minor

IST 236 Data Structures	3	_____	ART 214 Introduction to Design	3	_____
IST 332 Software Engineering I	3	_____	ART 219 Computer Skills for Art	3	_____
IST 333 Software Engineering II	3	_____	ART 312 Graph Design: Studio Skills	3	_____
IST 430 E-Commerce	3	_____	ART 453 Elec. Media in Vis. Arts	3	_____
IST 436 AdvWeb Development	3	_____	ART 454 Design for Multimedia	3	_____
			ART (Any Course) _____	3	_____

Instead of Pursuing a Graphics Art minor, you may substitute the ART courses with:

IST 363 Network Administration	3	_____	IST 466 Database Programming	3	_____
IST 423 GIS & Data Systems	3	_____	Technical Elective _____	3	_____

Computer and Information Technology Major-Computer Forensics Area of Emphasis

IST 363 Network Administration	3	_____	IST 464 Network Sec & Cybercrime	3	_____
IST 447 App. Digital Evidence & E-Disc	3	_____	CJ 312 Criminal Investigation	3	_____
IST 448 Forensic Uses/Digital Images	3	_____	CJ 326 Computer Crime	3	_____
IST 449 Digital Forensics Investigation	3	_____	Technical Elective _____	3	_____
IST 463 Digital Forensics Practicum	3	_____			

Computer and Information Technology Major-Game Development Area of Emphasis

IST 236 Data Structures	3	_____	IST 360 Game Development I	3	_____
IST 238 Algorithms	3	_____	IST 438 Comp. Graphics for Gaming	3	_____
IST 303 .NET Programming	3	_____	IST 439 Game Development II	3	_____
IST 332 Software Engineering I	3	_____	IST 460 Game Development III	3	_____
			ART xxx 3D Animation (SpTp currently)	3	_____

MARSHALL UNIVERSITY CORE REQUIREMENTS

Must have a **GRADE** in **ALL** required courses (except for AP credit)

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COMPLETED **CORE I, 9 CREDIT HOURS – Must be 100 – 299 level**

_____ **3 hrs, First Year Seminar** _____

_____ **6 hrs, Critical Thinking** _____

COMPLETED **CORE II, 25 CREDIT HOURS – Must be 100 – 299 level**

_____ **6 hours, Composition** (Grade of C or higher required)

ENG101 3 hrs. _____ **AND** ENG 102 3 hrs. _____ **OR** ENG 201H 6 hrs. _____

Must earn a C or better in ENG 102 or ENG 201H in order to graduate.

_____ **3 hours, Communications** CMM 103 _____ CMM 104H _____ **OR** CMM 207 _____

_____ **3 hours, Fine Arts** ART 112 _____ MUS 142 _____ **OR** THE 112 _____

_____ **3 hours, Humanities** _____

CL 210*, 231, 232, 233, 234, 235, 236, 237, 250

CMM 205, 239, 240

ENG 200*, 202, 203, 206, 209, 210, 211, 212, 213, 215, 220, 225, 231, 235, 236, 240, 241, 242

FRN 240

GER 240

JPN 240

PHL 200, 200H, 201, 250

RST 205, 206, 250

SPN 240

_____ **3 hours, Math** (*MTH 140, MTH 229, OR IST 131 for Science majors*) _____

_____ **4 hours, Natural or Physical Sciences** _____

BSC 104, 105, 120, 121, 228, 250

CHM 211 plus 217, 212 plus 218

GLY 110 plus 210L, 150 plus 150L, 200 plus 210L

ISC 200, 201, 202, 205, 208, 209

IST 111, 131, 224, 230

PHY 101 plus 101L, 201 plus 202, 203 plus 204, 211 plus 202 or 212, 213 plus 204 or 214

PS 109 plus 109L, 110 plus 110L

_____ **3 hours, Social Science** _____

ANT 201*, ANT 201H CMM 213, 255 CJ 200, 211, 221, 231, 241 GEO 100*, 203, 206

HST 101*, 102*, 103*, 103H, 125, 200, 205, 206, 208*, 219, 220, 221, 223, 230*, 230H*, 231*, 231H*, 250, 260, 265

PSC 104, 105, 202, 207, 209, 211, 233 PSY 201, 201H, 223 SOC 200*, 200H*

**Core II courses that have also been approved as Core I (CT) courses*

_____ **3 hours, Multicultural** _____ **OR** **International studies** _____

_____ **6 hours, Writing Intensive** _____

_____ **Capstone 2 – 3 hrs** _____

TOTAL HOURS REQUIRED – AT LEAST 120 OF WHICH 40 MUST BE 300 – 499 LEVEL

Total Hours _____

300-400 level hours _____

Catalog Year: 2010 – 2011