Request for Graduate Course Change

1. Prepare one paper copy with all signatures and supporting material and forward to the Graduate Council Chair.
2. E-mail one identical PDF copy to the Graduate Council Chair. If attachments included, please merge into a single file.
3. **The Graduate Council cannot process this application until it has received both the PDF copy and the signed hard copy.**

College: CITE   Dept/Division: Computer Science   Current Alpha Designator/Number: IS/622

Contact Person: Wook-Sung Yoo   Phone: x5452

CURRENT COURSE DATA:

Course Title: Information Structures II

Alpha Designator/Number: | I | S | 6 | 2 | 2 | | | |

Title Abbreviation: | I | n | f | o | r | m | a | t | i | o | n | | S | t | r | u | c | t | u | r | e | s | | 2 | |

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1. Complete this **five** page form in its entirety and route through the departments/committees below for changes to a course involving: course title, alpha designator, course number, course content, credit hours, or catalog description.
2. If this change will affect other departments that require this course, please send a memo to the affected department and include it with this packet, as well as the response received from the affected department.
3. If the changes made to this course will make the course similar in title or content to another department's courses, please send a memo to the affected department and include it with this packet as well as the response received from the affected department.
4. List courses, if any, that will be deleted because of this change (*must submit course deletion form*).
5. If the faculty requirements and/or equipment need to be changed upon approval of this proposal, attach a written estimate of additional needs.

Signatures: if disapproved at any level, do not sign. Return to previous signer with recommendation attached.

Dept. Chair/Division Head _____   Date _Oct. 31, '18_

Registrar _____   Date _11/7/18_

College Curriculum Chair _____   Date _11/16/18_

Graduate Council Chair _____   Date _____

College: CITE   Department/Division: Computer Science   Alpha Designator/Number: IS/605

Provide complete information regarding the course change for each topic listed below.

Change in CATALOG TITLE: ☒ YES   ☐ NO

From | I n f o r m a t i o n   S t r u c t u r e s   2 | (limited to 30 characters and spaces)

To | E m e r g i n g   T e c h .   i n   i n f o .   S y s . |

If Yes, Rationale | Technology changes rapidly. Innovative technology and tools in information systems will be studied in this course rather than covering more conventional concepts.

Change in COURSE ALPHA DESIGNATOR:

From: [   ] To [   ]   ☐ YES   ☒ NO

If Yes, Rationale

Change in COURSE NUMBER: ☐ YES   ☒ NO

From: [   ] To: [   ]

If Yes, Rationale

Change in COURSE GRADING

From ☐ Grade To ☐ Credit/No Credit

Rationale

Change in CATALOG DESCRIPTION: ☒ YES   ☐ NO   IF YES, fill in below:

From | A continuation of IS 621. Tree, graph, and set structures; file structures for secondary storage; aspects of discrete mathematics. (PR: IS 621)

To | 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. (PR: IS 621)

If Yes Rationale | Technology changes rapidly. Innovative technolgies and tools in information systems will be studied in this course rather than covering more conventional concepts.

Change in COURSE CREDIT HOURS: ☐ YES ☒ NO If YES, fill in below:

NOTE: If credit hours increase/decrease, please provide documentation that specifies the adjusted work requirements.

From

To

Change in COURSE CONTENT: ☒ YES ☐ NO

From | A continuation of IS 621. Tree, graph, and set structures; file structures for secondary storage; aspects of discrete mathematics. (PR: IS 621)

To | 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.

Rationale | Technology changes rapidly. Innovative technologies and tools in information systems will be studied in this course rather than covering more conventional concepts.

College: CITE

Department: Computer Science

Course Number/Title IS 622/Information Structures 2

1. REQUIRED COURSE: If this course is required by another department(s), identify it/them by name and attach the written notification you sent to them announcing to them the proposed change and any response received. Enter NOT APPLICABLE if not applicable.

N/A

2. COURSE DELETION: List any courses that will be deleted because of this change. A *Course Deletion* form is also required. Enter NOT APPLICABLE if not applicable.

N/A

3. ADDITIONAL RESOURCE REQUIREMENTS: If your department requires additional faculty, equipment, or specialized materials as a result of this change, attach an estimate of the time and cost etc. required to secure these items. (NOTE: approval of this form does not imply approval for additional resources. Enter NOT APPLICABLE if not applicable.

N/A

Please insert in the text box below your course change summary information for the Graduate Council agenda. Please enter the information exactly in this way (including headings) based on the appropriate change:

COURSE DESCRIPTION CHANGE
Department:
Course Number and Title:
Rationale:
Course Description (old)
Course Description: (new)
Catalog Description:

COURSE NUMBER CHANGE
Department:
Current Course Number/Title:
New Course Number:
Rationale:
Catalog Description:
Credit hours:

COURSE TITLE CHANGE
Department:
Current Course Number/Title:
New Course Title:
Rationale:
Catalog Description:

COURSE TITLE CHANGE
Department: Information Systems
Current Course Number/Title: IS622/Information Structures II
New Course Title: Emerging Technologies in Information Systems
Rationale: Technology changes rapidly. Innovative technolgies and tools in information systems will be studied in this course rather than covering more conventional concepts.
Catalog Description: 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. (PR: IS 621)

COURSE DESCRIPTION CHANGE
Department: Information Systems
Course Number and Title: IS622/Information Structures II
Rationale: Technology changes rapidly. Innovative technology and tools in information systems will be studied in this course rather than covering more conventional concepts.
Course Description (old)
A continuation of IS 621. Tree, graph, and set structures; file structures for secondary storage; aspects of discrete mathematics. (PR: IS 621).
Course Description: (new)
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.
Catalog Description:
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. (PR: IS 621)

Marshall University

Course	IS 622 Information Structures II
Semester/Year	Fall 2018
Days/Time	W, 6:30-9:00 pm
Location	WAEC 1105
Instructor	Dr. Elias Majdalani
Office	
Phone	Division Secretary 304-696-4664
E-Mail	majdalan@marshall.edu
Office Hours	By appointment
University Policies	By enrolling in this course, you agree to the University Policies listed below. Please read the full text of each policy by going to www.marshall.edu/academic-affairs and clicking on "Marshall University Policies." Or, you can access the policies directly by going to www.marshall.edu/academic-affairs/policies/. Academic Dishonesty/ Excused Absence Policy for Undergraduates/Computing Services Acceptable Use/Inclement Weather/Dead Week/Students with Disabilities/ Academic Forgiveness/Academic Probation and Suspension/Academic Rights and Responsibilities of Students/Affirmative Action/Sexual Harassment

Course Description: From Catalog

A continuation of IS 621. This Course is designed to build on the previous data structure knowledge acquired and explore the practical side of data structure operation using the Microsoft visual framework, object oriented and ASP.net development tool. Key topics will include: WEB and Data structure programming with Visual studio ASP and VB.net.

Student learning outcome practiced and assessed in the course.

Course student learning outcomes	How students will practice each outcome in this course	How student achievement of each outcome will be assessed in this course
Students will…	Be able to understand The components and structure of the .NET Framework, Visual Studio and ASP.Net.	Assessment , project, test

Students will	Be able to understand object oriented structure, CSS, web page mapping and building web applications with ASP.NET	Assessment , project, test
Students will	Be able to authenticate web users access , control, linkage to database and form tools with Asp.net and VB.net	Assessment , project, test
Students will	Be able to understand the structure and configuration of database source and menu setting with ASP.net	Assessment, project, test

Required Texts, Additional Reading, and Other Materials

"Beginning ASP.net for Visual Studio 2015", by William Penberthy, ISBN :
978-1-119-07742-8

Course Requirements/Due Dates

Flash/Jump/USB drive needed for saving assignments and PowerPoint presentations.
Each student must have an Email and an account with Marshall.

Grading Policy

Evaluation is based on assignments/attendance, five exams, and an in-class, all-inclusive presentation. **All work is to be your own. Any evidence of cheating will be subject to the penalties for academic dishonesty listed in the MU catalog.** Grades will be reported on a **7 POINT** grading scale as follows:

Percentages

A	= 93 – 100

B	=86 – 92
C	=78 – 85
D	=70 – 77

F	= Below 70

Assignments/Worksheets/Attendance 25%
Concepts/Quiz and test   35%
Projects   20%
Final Test   10%
Final Group project and presentation 10%

Attendance Policy

It is up to the student to ensure that he/she shows up on time and is prepared for class. Attendance is taken at the beginning of every class; any student NOT present during this time will be counted absent. There is ZERO tolerance for absences, tardiness, late work, excuses, and/or disrespect. Any student having FOUR unexcused absences will have his/her final grade lowered one letter grade. Any student having FIVE unexcused absences will have his/her final grade lowered two letter grades. Any student with MORE THAN five unexcused absences will fail the course for the semester. Excused absences are illnesses with a doctor's excuse to be presented the first day the student returns to class, death in the family (obituary presented), or institutional activities (those approved by the academic deans).   Work missed with an excused absence must be made up within two class days of the return to class. Work missed due to an unexcused absence <u>cannot be made up</u>. <u>MISSED EXAMS FOR AN UNEXCUSED ABSENCE WILL NOT BE MADE UP AND WILL RESULT IN A ZERO</u>. If a student must be absent, it is his/her responsibility to do the work assigned and gets caught up before returning to class.

Be able to authenticate web users access , control, linkage to database and form tools with Asp.net and VB.net

It is the student's responsibility to know what work is assigned, do the work as directed, and save that assignment on his/her flash drive. Periodic checks will be made throughout the semester.

Academic Dishonesty:

Plagiarism and cheating are serious offenses and may be punished by failure on exam, paper, homework, or project; failure in course; and/or expulsion from MU

Tentative Course Schedule

Week 1	Introduction to class procedures, syllabus, and learning/general education outcomes; MU computer account, MU homepage, Email, Blackboard
Week 2-4	Microsoft .Net Framework, Visual Studio and ASP.Net Overview, ASPX Code and Assessment (assignment, quiz, test..)
Week 5	Project and testing
Week 6-8	Cascading Style Sheet CSS integration with HTML, validation, error handling and Data base connectivity and VB.Net integration.
Week 9	Project and testing
Week 10-13	Master page and Site Navigation with ASP.net routing, Database Tools and Form Controls. Security and Authentication. (Assessment…)
Week 14	Project and testing
Week 15	Final project Integration with menu designer
Week 16	Final testing and project

Dates to remember:
> **August 20, Monday** First day of classes
> **September 3, Monday Labor** Day Holiday- University Closed
> **October 10, Wednesday 1**st 8 weeks courses end
> **October 11, Thursday 2**nd 8 weeks courses begin
> **November 19, Monday – November 24, Saturday**
> Thanksgiving Break Classes dismissed
> **November 22, Thursday – November 23, Friday**
> Thanksgiving Holiday University closed
> **November 26, Monday Classes** resume
> **December 3, Monday — December 7, Friday** "Dead week"
> **December 7, Friday** Last class day
> **December 10, Monday** Exam day

Note: This syllabus is not to be considered a legal contract and may change at the Instructor's

discretion.

Course	IS 622 Emerging Technologies in Information Systems
Semester/Year	Fall, 2019
Days/Time	TBD
Location	TBD
Instructor	TBD
Office	
Phone	TBD
E-Mail	TBD
Office Hours	TBD
University Policies	By enrolling in this course, you agree to the University Policies listed below. Please read the full text of each policy by going to www.marshall.edu/academic-affairs and clicking on "Marshall University Policies." Or, you can access the policies directly by going to www.marshall.edu/academic-affairs/policies/. Academic Dishonesty/ Excused Absence Policy for Undergraduates/Computing Services Acceptable Use/Inclement Weather/Dead Week/Students with Disabilities/Academic Forgiveness/Academic Probation and Suspension/ Academic Rights and Responsibilities of Students/Affirmative Action/ Sexual Harassment

Course Description

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. (PR: IS 621)

Required Texts, Additional Reading, and Other Materials

"Computing and Information Technologies: exploring Emerging Technologies," by Antoniou George Print ISBN : 9789810247591 publisher :World scientific

Student learning outcome will be practiced and assessed in the course.

Course student learning outcomes	How students will practice each outcome in this course	How student achievement of each outcome will be assessed in this course

Students will…	Understand the Internet and Networking concepts of information systems development	assessments-exam questions,
Students will	Understand Human Computer interfacing and Parallel computing techniques.	assessments-exam questions
Students will	Will be introduced to Machine learning and imaging applications.	assessments-exam questions

Course Requirements/Due Dates

Flash/Jump/USB drive needed for saving assignments and PowerPoint presentations.
Each student must have an Email and an account with Marshall.

Work Assignments may be submitted through Marshall University's Blackboard System. As a result, each student must have access to a computer and Internet connection.

A research paper will be required of all students. The following items will be used:

   a. Quizzes and test on assigned textbook material prior to each class.

   b. Research paper covering one of the applications discussed in class.

   c. Homework assignments based on class discussions.

Grading Policy

Evaluation is based on assignments/attendance, five exams, and an in-class, all-inclusive presentation.   **All work is to be your own. Any evidence of cheating will be subject to the penalties for academic dishonesty listed in the MU catalog.** Grades will be reported on a **7 POINT** grading scale as follows:

Percentages

	A	>= 90
B	>=80 & <9080_89	
C	>=70 &<=7970– 79	
D	>=60 & <6960- 69	
	F	<60 Below 60

assignments/Worksheets   30%
Concepts/Quiz30%
Case study Project report   30%
Participation and project presentation10%

Attendance Policy

It is up to the student to ensure that he/she shows up on time and is prepared for class. **Attendance is taken at the beginning of every class; any student NOT present during this time will be counted absent** Any **student having 3 unexcused absences will have his/her final grade lowered one letter grade.** Excused absences are illnesses with a doctor's excuse to be presented the first day the student returns to class, death in the family (obituary presented), or institutional activities (those approved by the academic deans).   Work missed with an excused absence must be made up within **two class days** of the return to class. **Work missed due to an unexcused absence cannot be made up**. **MISSED EXAMS FOR AN UNEXCUSED ABSENCE WILL NOT BE MADE UP.** If a student must be absent, it is his/ her responsibility to do the work assigned and gets caught up before returning to class.

It is the student's responsibility to know what work is assigned, do the work as directed, and save

that assignment on his/her flash drive. When an assignment is due, it is the student's responsibility to submit the assignment. Periodic checks will be made throughout the semester.

Academic Dishonesty:

Plagiarism and cheating are serious offenses and may be punished by failure on exam, paper, homework, or project; failure in course; and/or expulsion from MU

Tentative Course Schedule

Week 1	Introduction to class procedures, syllabus, and learning/general education outcomes; MU computer account, MU homepage, Email, Blackboard and Connect
Week 2-3	Introducing Core advance IS techniques and tools
Week 4-5	Human Computing interface and robotics applications with case study
Week 6	Learning Algorithms and solving logical problems by equivalent transformation
Week 8-9	Communications Systems, Networking and Machine learning technologies.
Week 11-13	Introducing user centered design into a hybrid intelligent information system methodology towards hybrid knowledge and software engineering
Week 14	Overview of Imaging, Forensic and Prediction Applications
Week 15	IOT based technologies a comparative study
Week 16	Final project presentation

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