Chair: Tracy Christofero

GC#6: Course Addition

## **Request for Graduate Course Addition**

- Prepare one paper copy with all signatures and supporting material and forward to the Graduate Council Chair.
   E-mail one identical PDF copy to the Graduate Council Chair. If attachments included, please merge into a single file.
   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	Alpha Designator/Number: CS 5	30	Graded ← CR/NC
Contact Person: Paulus Wahjudi Phone:		ne: 304-696-54	43	
NEW COURSE DATA:				
New Course Title: Cybersecu	rity			
Alpha Designator/Number:	C S 5 3 0			
Title Abbreviation: C y b	e r s e c u r i t y (Limit of 25 characters and spa			
Course Catalog Description: (Limit of 30 words)	Concepts and issues in physical and systems, database servers, Web ser offensive security measures.	d cyber security; technological v		
Co-requisite(s): None	First Term to be 0	Offered: Spring 2015	-	
Prerequisite(s): None	Credit Hours: 3			
Course(s) being deleted in place of this addition (must submit course deletion form):				
Signatures: if disapproved at any level, do not sign. Return to previous signer with recommendation attached.				
Dept. Chair/Division Head			Date	
Registrar			Date	<del></del>
College Curriculum Chair			Date	
Graduate Council Chair			Date	

College: CITE	Department/Division: Computer Science	Alpha Designator/Number: CS 530
	g the new course addition for each topic listed below ems listed on the first page of this form.	. Before routing this form, a complete syllabus
1. FACULTY: Identify by name the facu	lty in your department/division who may teach this o	course.
- Paulus Wahjudi		
2. DUPLICATION: If a question of possil describing the proposal. Enter " <b>Not</b> A Not Applicable	ble duplication occurs, attach a copy of the correspon <b>Applicable</b> " if not applicable.	ndence sent to the appropriate department(s)
3. REQUIRED COURSE: If this course wil applicable. Not Applicable	ll be required by another deparment(s), identify it/the	em by name. Enter " <b>Not Applicable</b> " if not
4. AGREEMENTS: If there are any agree Enter " <b>Not Applicable</b> " if not applica Not Applicable	ments required to provide clinical experiences, attac ble.	h the details and the signed agreement.
	ENTS: If your department requires additional faculty, ime and money required to secure these items. (Note er " <b>Not Applicable</b> " if not applicable.	
6. COURSE OBJECTIVES: (May be subn Please see attached Syllabus	nitted as a separate document)	

7. COURSE OUTLINE (May be submitted as a separate document)
Please see attached Syllabus
8. SAMPLE TEXT(S) WITH AUTHOR(S) AND PUBLICATION DATES (May be submitted as a separate document)
Please see attached Syllabus
9. EXAMPLE OF INSTRUCTIONAL METHODS (Lecture, lab, internship)
- Lecture related to the chapters in the textbook
- In class discussion regarding the chapter and or - Case studies: Review and discussion of case studies related to cybersecurity
- Article/Paper review: Review and discussion of recent and/or significant event or scholarly paper related to Cybersecurity
<ul> <li>Table top simulation that simulates real life Cybersecurity event</li> <li>Course related labs on utilizing different tools and techniques in Cybersecurity</li> </ul>

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### 10. EXAMPLE EVALUATION METHODS (CHAPTER, MIDTERM, FINAL, PROJECTS, ETC.)

- Quiz for each chapter covered
- Midterm Exams to evaluate student proficiency in utilizing the knowledge from the various materials covered in class
- Final exam will be a cybersecurity exercise to protect and defend a cyber infrastructure
- Programming projects related to cybersecurity such as steganography and encryption.

### 11. ADDITIONAL GRADUATE REQUIREMENTS IF LISTED AS AN UNDERGRADUATE/GRADUATE COURSE

The course contents and objectives will remain the same for both courses. The graduate students will have augmented requirements in the assignments along with additional assignments and/or projects related to the field of Cybersecurity.

12. PROVIDE COMPLETE BIBLIOGRAPHY (May be submitted as a separate document)

Please see attached Syllabus

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

Department:

Course Number and Title:

Catalog Description:

Prerequisites:

First Term Offered:

Credit Hours:

Department: Computer Science

Course Number and Title: CS 530 Cybersecurity

Catalog Description: Concepts and issues in physical and cyber security; technological vulnerabilities found in operating systems, database servers, Web servers, Internet, and local area networks; developing defensive and offensive security measures.

Prerequisites: None

First Term Offered: Spring 2015

Credit Hours: 3