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/Numb	per: CYBR/530	
Contact Person: Dr. Wook-Si	ung Yoo		Phone: x5452	
NEW COURSE DATA:				
New Course Title: Cybersect	urity Policies and Management			
Alpha Designator/Number:	C Y B R / 5 3 0			
Title Abbreviation: C y I	b e r s e c P o I	i c i e s &	M g m t	
	(Limit of 25 characters and sp	paces)		
Course Catalog Description: (Limit of 30 words)	The course covers risk management with information system to impro	ent, integrating continuou ove situational awareness a	is monitoring and re and deployment of	al-time security solutions countermeasures.
Co-requisite(s): None	First Term to be	Offered: Spring 2019		
Prerequisite(s): None	Credit Hours: 3			
Course(s) being deleted in p	lace of this addition (must submit co	ourse deletion form): NA		
Signatures: if disapproved at	any level, do not sign. Return to pro	evious signer with recomn	mendation attached	
Dept. Chair/Division Head _	you, works		Date	9/17/18
Registrar Alph J	- Hellol	[101	O Date _	9/21/18
College Curriculum Chair	Marlo		Date _	9/28/18
Graduate Council Chair			Date _	

College: CITE	Department/Division: Computer Science	Alpha Designator/Number: CYBR/530
	regarding the new course addition for each topic listed belong the items listed on the first page of this form.	ow. Before routing this form, a complete syllabus
1. FACULTY: Identify by name t	the faculty in your department/division who may teach th	nis course.
Paulus Wahjudi, Ph.D. Wook-Sung Yoo, Ph.D.		
	of possible duplication occurs, attach a copy of the corres er "Not Applicable" if not applicable.	pondence sent to the appropriate department(s)
Not Applicable		
3. REQUIRED COURSE: If this co	ourse will be required by another deparment(s), identify it	/them by name. Enter " <i>Not Applicable</i> " if not
Not Applicable		
4. AGREEMENTS: If there are an Enter "Not Applicable" if not	ny agreements required to provide clinical experiences, at applicable.	tach the details and the signed agreement.
Not Applicable		
this course, attach an estimate	QUIREMENTS: If your department requires additional facul of the time and money required to secure these items. (N tes.) Enter " Not Applicable " if not applicable.	ty, equipment, or specialized materials to teach lote: Approval of this form does not imply
6. COURSE OBJECTIVES: (May	be submitted as a separate document)	
Please see attached document	t	

7. COURSE OUTLINE (May be submitted as a separate document)	
Please see attached document	
9 SAMDLE TEXT(S) WITH A LITHOP(S) AND DUBLICATION DATES (May be submitted as a somewhat	
8. SAMPLE TEXT(S) WITH AUTHOR(S) AND PUBLICATION DATES (May be submitted as a separate document)	
Please see attached document	
9. EXAMPLE OF INSTRUCTIONAL METHODS (Lecture, lab, internship)	
Please see attached document	

Form updated 10/2011 Page 3 of 5

10. EXAMPLE EVALUATION METHODS (CHAPTER, MIDTERM, FINAL, PROJECTS, ETC.)	
Exam, Homework Assignments and Projects	

11. ADDITIONAL GRADUATE REQUIREMENTS IF LISTED AS AN UNDERGRADUATE/GRADUATE COURSE Not applicable

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

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: CYBR 530 Cyber Security Policies and Management

Catalog Description: The course covers risk management, integrating continuous monitoring and real-time security solutions

with information systems to improve situational awareness and deployment of countermeasures.

Prerequisites: None

First Term Offered: Spring 2019

Credit Hours: 3

BIBLIOGRAPHY

"Cyber Security Management: A Governance, Risk and Compliance Framework", 1st Edition, by Peter Trim, and Yang-Im Lee; Routledge 1 edition (September 10, 2014); ISBN-10: 1472432096, ISBN-13: 978-1472432094

"How to Measure Anything in Cybersecurity Risk", 1st Edition, by Douglas Hubbard, Richard Seiersen; Wiley; 1 edition (July 25, 2016); ISBN-10: 1119085292, ISBN-13: 978-1119085294

"Ethics and Cyber Warfare: The Quest for Responsible Security in the Age of Digital Warfare", 1st Edition, by George Lucas; Oxford University Press; 1 edition (December 13, 2016); ISBN-10: 0190276525, ISBN-13: 978-0190276522

CYBR 530 Cybersecurity Policies and Management

Course Title/Number	Cybersecurity Policies and Management/530
Semester/Year	Spring/2019
Days/Time	TBD
Location	TBD
Instructor	Dr. Wook-Sung Yoo
Office	WAEC 3101A
Phone	X5452
E-Mail	yoow@marshall.edu
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

The course covers risk management, integrating continuous monitoring and real-time security solutions with information systems to improve situational awareness and deployment of countermeasures.

Course Student Learning Outcomes

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
List the applicable laws and policies related to cyber defense	Group discussions	Graded homework assignments
Evaluate and assess the use of technology to support cyber security goals and objectives	Homework Assignments, Group discussions	Graded exam problems Graded homework assignments
Formulate, update, and communicate short- and long-term organizational cyber security strategies and policies	Homework, In class examples, Group discussions	Graded exam problems Graded homework assignments

Required Texts, Additional Reading, and Other Materials

Required Text

Peter Trim, Yang-Im Lee, Cyber Security Management: A Governance, Risk and Compliance Framework; Routledge, 1 edition (September 10, 2014); ISBN-10: 1472432096, ISBN-13: 978-1472432094

Other Materials

Douglas Hubbard, Richard Seiersen, How to Measure Anything in Cybersecurity Risk; Wiley; 1 edition (July 25, 2016); ISBN-10: 1119085292, ISBN-13: 978-1119085294

George Lucas, Ethics and Cyber Warfare: The Quest for Responsible Security in the Age of Digital Warfare; Oxford University Press; 1 edition (December 13, 2016); ISBN-10: 0190276525, ISBN-13: 978-0190276522

Course Requirements / Due Dates

Midterm Examinations

Midterm exam is during regular class hours in Week 8.

Homework Assignments

Homework problems will be assigned bi-weekly (starting from week 2)

Attendance Policy

Missing more than 3 classes will result in a 10 points reduction from your final grade.

Grading Policy

Activity	Points
Attendance	10
Midterm Exam	30
Homework Assignments	30
Final Exam	30
Total	100

Course grades are awarded based on the following scheme:

Score	Letter Grade	
>= 90	A	
>= 80 & < 90	В	
>= 70 & < 80	С	
>= 60 & < 70	D	
< 60	F	

Course Schedule

This is the list of topics. This could be adjusted as the semester progresses at the discretion of the instructor. Lecture slides will be posted to MUOnline.

Week	Schedule	
1	Introduction to cyberspace	
2	Computer security act	
3	Laws and authorities	
4	Cybersecurity governance	
5	Vulnerabilities and risks	
6	Foundations in cybersecurity management	
7	Threat Identification	
8	Midterm Exam	
9	Vulnerability assessment	
10	Cybersecurity program development	
11	Incident awareness and response	
12	Cyber strategy development	
13	Cybersecurity with mobile projects	
14	Disaster recovery and planning	
15	Case study and simulation	