CALIFORNIA STATE UNIVERSITY CHANNEL ISLANDS

COURSE MODIFICATION PROPOSAL

Courses must be submitted by October 15, 2010, to make the next catalog (2011-12) production

DATE (CHANGE DATE EACH TIME REVISED): 6/9/10; REV 9.20.10

PROGRAM AREA(S) : COMPUTER SCIENCE

Directions: All of sections of this form must be completed for course modifications. Use YELLOWED areas to enter data. All documents are stand alone sources of course information.

1. Course Information.

[Follow accepted catalog format.] ***(Add additional prefixes i f cross-listed)***

OLD

Prefix COMP Course# 424 Title Computer System Security Units (3)
3 hours lecture per week
hours blank per week

X Prerequisites: Comp 350 and Comp 362
Consent of Instructor Required for Enrollment
Corequisites:

Catalog Description (Do not use any symbols): Security techniques in operating systems, data bases, and computer networks. Analysis of formal security models. Introduction to cryptography, and public key security schemas.

General Education Categories
Lab Fee Requested

Graded
CR/NC
X A - F

Repeatable for up to units
Total Completions
Multiple Enrollment in same semester

Course Level:
X Undergraduate
Post-bac/Credential
Graduate

Optional (Student's choice)

NEW

Prefix COMP Course# 424 Title Computer System Security Units (3)
3 hours lecture per week
hours blank per week

X Prerequisites: Comp 350 and Comp 362
Consent of Instructor Required for Enrollment
Corequisites:

Catalog Description (Do not use any symbols)**:** Security techniques in operating systems, data bases, and computer networks. Analysis of formal security models. Introduction to cryptography, and public key security schemas.

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Course Level:
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Graduate

Optional (Student's choice)

2. Mode of Instruction (Hours per Unit are defaulted)

Hegis Code(s)_____
(Provided by the Dean)

Existing

	Units	Hours Per Unit	Benchmark Enrollment	Graded
Lecture	3	1	24	y
Seminar		1		
Lab		3		
Activity		2		
Field Studies				
Indep Study				
Other blank				

Proposed

	Units	Hours Per Unit	Benchmark Enrollment	Graded	CS No. (filled out by Dean)
Lecture	3	1	24	y	
Seminar		1			
Lab		3			
Activity		2			
Field Studies					
Indep Study					
Other blank					

3. Course Attributes:

General Education Categories: All courses with GE category notations (including deletions) must be submitted to the GE website: http://summit.csuci.edu/geapproval. Upon completion, the GE Committee will forward your documents to the Curriculum Committee for further processing.

A (English Language, Communication, Critical Thinking)
- A-1 Oral Communication
- A-2 English Writing
- A-3 Critical Thinking

B (Mathematics, Sciences & Technology)
- B-1 Physical Sciences
- B-2 Life Sciences – Biology
- B-3 Mathematics – Mathematics and Applications
- B-4 Computers and Information Technology

C (Fine Arts, Literature, Languages & Cultures)
- C-1 Art
- C-2 Literature Courses
- C-3a Language
- C-3b Multicultural

D (Social Perspectives)

E (Human Psychological and Physiological Perspectives)

UDIGE/INTD Interdisciplinary

Meets University Writing Requirement

Meets University Language Requirement

American Institutions, Title V Section 40404: Government US Constitution US History
Refer to website, Exec Order 405, for more information: http://senate.csuci.edu/comm/curriculum/resources.htm

Service Learning Course (Approval from the Center for Community Engagement must be received before you can request this course attribute).

4. Justification and Requirements for the Course. *[Make a brief statement to justify the need for the course]*

OLD	**NEW**
The course is an elective course for Computer Science majors.	The course is an elective course for Computer Science majors.
Requirement for the Major/Minor	Requirement for the Major/Minor
X Elective for the Major/Minor	X Elective for the Major/Minor
Free Elective	Free Elective

Submit Program Modification if this course changes your program.

5. Student Learning Outcomes. (List in numerical order. You may wish to visit resource information at the following website: http://senate.csuci.edu/comm/curriculum/resources.htm)

Upon completion of the course, the student will be able to:	Upon completion of the course, the student will be able to:
OLD	**NEW**
Discuss and design modern security protocols	* Describe modern security protocols
• Assess vulnerabilities of a computer systems and corresponding threats	* Design security protocols
• Explain impediments to security	• Assess vulnerabilities of a computer systems and corresponding threats
• Assess the strength of a cryptographic system	• Explain impediments to security
• Organize and express ideas clearly and convincingly in oral and written forms.	• Assess the strength of a cryptographic system
	• Synthesize and articulate ideas clearly and convincingly in oral and written forms.

6. Course Content in Outline Form. (Be as brief as possible, but use as much space as necessary)

OLD	**NEW**
Introduction	Introduction
Encryption	Encryption
Viruses and Covert Channels	Viruses and Covert Channels
Operating System Security	Operating System Security

Data Base Security Networks and Distributed System Security	Data Base Security Networks and Distributed System Security

Does this course content overlap with a course offered in your academic program? Yes **No** X
If YES, what course(s) and provide a justification of the overlap.

Does this course content overlap a course offered in another academic area? Yes **No** X
If YES, what course(s) and provide a justification of the overlap.

Overlapping courses require Chairs' signatures.

7. Cross-listed Courses (Please note each prefix in item No. 1)

A. List cross-listed courses (Signature of Academic Chair(s) of the other academic area(s) is required).
B. List each cross-listed prefix for the course:
C. Program responsible for staffing:

8. References. *[Provide 3-5 references]*

OLD Schneier, *Secrets and lies: digital security in a networked world*, Wiley 2000 ISBN 0471253111

Pfleeger, *Security in Computing*, 2nd Edition, Prentice-Hall (1996) ISBN 0133374866

Kaufman, Perlman and Speciner, *Network security: private communication in a public world*, Prentice-Hall, 2nd edition (2002) ISBN 0130460192

NEW Schneier, *Secrets and lies: digital security in a networked world*, Wiley 2000 ISBN 0471253111

Pfleeger, *Security in Computing*, 2nd Edition, Prentice-Hall (1996) ISBN 0133374866

Kaufman, Perlman and Speciner, *Network security: private communication in a public world*, Prentice-Hall, 2nd edition (2002) ISBN 0130460192

9. Tenure Track Faculty qualified to teach this course.
Computer Science faculty

10. Requested Effective Date or First Semester offered: Fall 2011

11. New Resource Requested: Yes **No** X
If YES, list the resources needed.

A. Computer Needs (data processing, audio visual, broadcasting, other equipment, etc.)
B. Library Needs (streaming media, video hosting, databases, exhibit space, etc.)
C. Facility/Space/Transportation Needs:
D. Lab Fee Requested: Yes **No** **(Refer to the Dean's Office for additional processing)**
E. Other.

12. Indicate Changes and Justification for Each. *[Check all that apply and follow with justification. Be as brief as possible but, use as much space as necessary.]*

Course title	Course Content
Prefix/suffix	X Course Learning Objectives
Course number	References
Units	GE
Staffing formula and enrollment limits	Other
Prerequisites/Corequisites	Reactivate Course
Catalog description	

Mode of Instruction

Justification: Student learning outcome refined for assessability.

13. **Will this course modification alter any degree, credential, certificate, or minor in your program? Yes** **No** X
If, YES attach a program update or program modification form for all programs affected.
Priority deadline for New Minors and Programs: October 4, 2010 of preceding year.
Priority deadline for Course Proposals and Modifications: October 15, 2010.
Last day to submit forms to be considered during the current academic year: April 15th.

Peter Smith — 6/9/10

Proposer(s) of Course Modification — Date
Type in name. Signatures will be collected after Curriculum approval.

Approval Sheet

Course: COMP 424

If your course has a General Education Component or involves Center affiliation, the Center will also sign off during the approval process.

Multiple Chair fields are available for cross-listed courses.

Program Chair		
	Signature	Date
Program Chair		
	Signature	Date
Program Chair		
	Signature	Date
General Education Chair		
	Signature	Date
Center for Intl Affairs Director		
	Signature	Date
Center for Integrative Studies Director		
	Signature	Date
Center for Multicultural Engagement Director		
	Signature	Date
Center for Civic Engagement and Service Learning Director		
	Signature	Date
Curriculum Chair		
	Signature	Date
Dean of Faculty		
	Signature	Date