

CALIFORNIA STATE UNIVERSITY CHANNEL ISLANDS
COURSE MODIFICATION PROPOSAL
Courses must be submitted by November 3, 2008,
to make the next catalog (2009-2010) production

DATE (CHANGE DATE EACH TIME REVISED): OCTOBER 7, 2008 REV 11.17.08

PROGRAM AREA(S): COMPUTER SCIENCE

Directions: All of sections of this form must be completed for course modifications. All documents are stand alone sources of course information.

1. Course Information.

[Follow accepted catalog format.] (Add additional prefixes if cross-listed)

OLD

NEW

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

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

- Prerequisites: Comp 350
- Consent of Instructor Required for Enrollment
- Corequisites:

- 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, databases and computer networks. Analysis of formal security models. Introduction to cryptography and public key security schemas.

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 Security techniques in operating systems, databases and computer networks. Analysis of formal security models. Introduction to cryptography and public key security schemas.

- Gen Ed Categories
- Lab Fee Requested
- Course Level:
 - Undergraduate
 - Post-bac/Credential
 - Graduate
- Graded
 - CR/NC
 - A - F
- Repeatable for up to units Total Completions
- Multiple Enrollment in same semester
- Optional (Student's choice)

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

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

Existing

Proposed

	Units	Hours Per Unit	Benchmark Enrollment	Graded		Units	Hours Per Unit	Benchmark Enrollment	Graded	CS No. (filled out by Dean)
Lecture	<u>3</u>	<u>1</u>	<u>24</u>	<input checked="" type="checkbox"/>	Lecture	<u>3</u>	<u>1</u>	<u>24</u>	<input checked="" type="checkbox"/>	_____
Seminar	_____	_____	_____	<input type="checkbox"/>	Seminar	_____	_____	_____	<input type="checkbox"/>	_____
Lab	_____	_____	_____	<input type="checkbox"/>	Lab	_____	_____	_____	<input type="checkbox"/>	_____
Activity	_____	_____	_____	<input type="checkbox"/>	Activity	_____	_____	_____	<input type="checkbox"/>	_____
Field Studies	_____	_____	_____	<input type="checkbox"/>	Field Studies	_____	_____	_____	<input type="checkbox"/>	_____
Indep Study	_____	_____	_____	<input type="checkbox"/>	Indep Study	_____	_____	_____	<input type="checkbox"/>	_____
Other blank	_____	_____	_____	<input type="checkbox"/>	Other blank	_____	_____	_____	<input type="checkbox"/>	_____

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

This course is an elective course for Computer Science majors.

Requirement for the Major/Minor

Elective for the Major/Minor

NEW

This course is an elective course for Computer Science majors.

Requirement for the Major/Minor

Elective for the Major/Minor

Submit Program Modification if this course changes your program.

5. Learning Objectives. (List in numerical order)

Upon completion of the course, the student will be able to:

OLD

1. Discuss and design modern security protocols.
2. Assess vulnerabilities of computer systems and corresponding threats
3. Explain impediments to security
4. Assess the strength of a cryptographic system
5. Organize and express ideas clearly and convincingly in oral and written forms.

Upon completion of the course, the student will be able to:

NEW

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2. Assess vulnerabilities of computer systems and corresponding threats
3. Explain impediments to security
4. Assess the strength of a cryptographic system
5. Organize and express 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

1. Introduction
2. Encryption
3. Viruses and Covert Channels
4. Operating System Security
5. Data Base security
6. Networks and Distributed System Security

NEW

1. Introduction
2. Encryption
3. Viruses and Covert Channels
4. Operating System Security
5. Data Base security
6. Networks and Distributed System Security

Does this course content overlap with a course offered in your academic program? Yes No

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

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)
Pfleeger, Security in Computing (Second Edition) Prentice-Hall (1996)
Kaufman, Perlman and Speciner, Network security: private communication in a public world, (Second Edition), Prentice-Hall (2002)

NEW Schneier: Secrets and lies: digital security in a networked world. Wiley (2000)
Pfleeger, Security in Computing (Second Edition) Prentice-Hall (1996)
Kaufman, Perlman and Speciner, Network security: private communication in a public world, (Second Edition), Prentice-Hall (2002)s

9. Tenure Track Faculty qualified to teach this course.

All Computer Science faculty

10. Requested Effective Date or First Semester offered: Fall 2009

11. New Resource Requested: Yes No

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.]

- | | |
|---|---|
| <input type="checkbox"/> Course title | <input type="checkbox"/> Course Content |
| <input type="checkbox"/> Prefix/suffix | <input type="checkbox"/> Course Learning Objectives |
| <input type="checkbox"/> Course number | <input type="checkbox"/> References |
| <input type="checkbox"/> Units | <input type="checkbox"/> GE |
| <input type="checkbox"/> Staffing formula and enrollment limits | <input type="checkbox"/> Other |
| <input checked="" type="checkbox"/> Prerequisites/Corequisites | <input type="checkbox"/> Reactivate Course |
| <input type="checkbox"/> Catalog description | |
| <input type="checkbox"/> Mode of Instruction | |

Justification: Students need to have the Operating System background from Comp 362 in order to understand Operating System security

13. Will this course modification alter any degree, credential, certificate, or minor in your program? YES NO

If, YES attach a program update or program modification form for all programs affected.

Priority deadline for New Minors and Programs: **October 6, 2008** of preceding year.

Priority deadline for Course Proposals and Modifications: **November 3, 2008.**
Last day to submit forms to be considered during the current academic year: **April 15th.**

William Wolfe

10/7/08

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		
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Signature

Date

Program Chair		
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Signature

Date

Program Chair		
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Signature

Date

General Education Chair		
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Signature

Date

Center for Intl Affairs Director		
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Signature

Date

Center for Integrative Studies Director		
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Signature

Date

Center for Multicultural Engagement Director		
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Signature

Date

Center for Civic Engagement and Service Learning Director		
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Signature

Date

Curriculum Chair		
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Signature

Date

Dean of Faculty		
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Signature

Date