

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): 9/23/10; REV 10.15.10; REV 12.15.10

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 if cross-listed)

OLD

Prefix IT Course# 429 Title Computer Networks for IT
 Units (3)
 3 hours lecture per week
 hours blank per week

X Prerequisites: COMP 362
 Consent of Instructor Required for Enrollment
 Corequisites:

Catalog Description (Do not use any symbols):

Basic software design and analysis considerations in networking computers into coherent, cooperating systems capable of processing computational tasks in a distributed manner. Network topology, routing procedures, message multiplexing and process scheduling techniques.

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

NEW

Prefix IT Course# 429 Title Computer Networks for IT Units
 (3)
 3 hours lecture per week
 hours blank per week

X Prerequisites: IT 151 or IT152
 Consent of Instructor Required for Enrollment
 Corequisites:

Catalog Description (Do not use any symbols):

Basic software design and analysis considerations in networking computers into coherent, cooperating systems capable of processing computational tasks in a distributed manner. Network topology, routing procedures, message multiplexing and process scheduling techniques.

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

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>30</u>	y	Lecture	<u>3</u>	<u>1</u>	<u>24</u>	y	<input type="text"/>
Seminar	<input type="text"/>	<u>1</u>	<input type="text"/>	<input type="text"/>	Seminar	<input type="text"/>	<u>1</u>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Lab	<input type="text"/>	<u>3</u>	<input type="text"/>	<input type="text"/>	Lab	<input type="text"/>	<u>3</u>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Activity	<input type="text"/>	<u>2</u>	<input type="text"/>	<input type="text"/>	Activity	<input type="text"/>	<u>2</u>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Field Studies	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	Field Studies	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Indep Study	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	Indep Study	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Other blank	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	Other blank	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

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

Required course for the BSIT

X Requirement for the Major/Minor

Elective for the Major/Minor

Free Elective

NEW

Required course for the BSIT

X Requirement for the Major/Minor

Elective for the Major/Minor

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:

OLD

1. Analyze a computer network and its components
2. Define and explain typical network protocol layers.
3. Explain the components of a "packet" in the http protocol.
4. Design and implement a peer-to-peer configuration.
5. Analyze network security issues.
6. Explain the functions of a hub, switch, and router.
7. Describe basic data encryption techniques

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

NEW

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5. Analyze network security issues.
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6. Course Content in Outline Form. (Be as brief as possible, but use as much space as necessary)

OLD

1. Network Architectures
2. Network Hardware Devices.
3. Data Communication Protocols
4. Network Analysis Tools.

NEW

1. Network Architectures
2. Network Hardware Devices.
3. Data Communication Protocols
4. Network Analysis Tools.

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

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

1. Network security: private communication in a public world (2nd ed) Kaufman, Perlman and Speciner Prentice-Hall 2002 ISBN 0130460192
2. Computer Networks (4th ed) Tanenbaum Prentice-Hall 2002 ISBN 0130661023
3. Computer Networking: A Top-Down Approach Featuring the Internet Kurose, Ross Addison Wesley 2003 ISBN 0-201-97699-4
4. Network Management Subramanian, Mani Addison-Wesley 2000 ISBN0201357429

NEW

1. Network security: private communication in a public world (2nd ed) Kaufman, Perlman and Speciner Prentice-Hall 2002 ISBN 0130460192
2. Computer Networks (4th ed) Tanenbaum Prentice-Hall 2002 ISBN 0130661023
3. Computer Networking: A Top-Down Approach Featuring the Internet (5th ed) Kurose, Ross Addison Wesley 2009 ISBN 0136079679
4. Network Management Subramanian, Mani Addison-Wesley 2000 ISBN0201357429

9. Tenure Track Faculty qualified to teach this course.

All Computer Science faculty

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

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 checked="" type="checkbox"/> References |
| <input type="checkbox"/> Units | <input type="checkbox"/> GE |
| <input type="checkbox"/> Staffing formula and enrollment limits | <input type="checkbox"/> Other <input type="checkbox"/> |

X Prerequisites/Corequisites

Reactivate Course

Catalog description

X Mode of Instruction

Justification: The prerequisite is changed to a new, broader course that also covers the essential required material. Reference updated

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

9/23/10

Proposer(s) of Course Modification

Date

Type in name. Signatures will be collected after Curriculum approval.

Approval Sheet

Course: IT429

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