

CALIFORNIA STATE UNIVERSITY CHANNEL ISLANDS

COURSE MODIFICATION PROPOSAL

Courses must be submitted by October 15, 2012, and finalized by the end of the fall semester to make the next catalog (2013-14) production

DATE (CHANGE DATE EACH TIME REVISED): 6/18/12

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

☐ Course title	☐ Course Content
☐ Prefix/suffix	☐ Course Learning Outcomes
☐ Course number	☐ References
☐ Units	☐ GE
☐ Staffing formula and enrollment limits	☐ Other ☐
☒ Prerequisites/Corequisites	☐ Reactivate Course
☐ Catalog description	
☐ Mode of Instruction	

Justification: To ensure that students have the necessary foundational material.

2. Course Information.

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

OLD

Prefix COMP Course# 362
Title Operating Systems Units (4)
3 hours lecture per week
3 hours laboratory per week

X Prerequisites: COMP 262

☐ Consent of Instructor Required for Enrollment
Corequisites: ☐

Catalog Description (Do not use any symbols):

Examination of the principal types of systems including batch, multiprogramming, and time-sharing. Networked systems are also discussed. The salient problems associated with implementing systems are considered including interrupt or event driven systems, multi-tasking, storage and data base management, and input-output. Emphasis will be placed on some of the simple algorithms used to solve common problems encountered such as deadlocks, queue service, and multiple accesses to data. Projects will be implemented to reinforce the lectures

General Education Categories: ☐

Grading Scheme (Select one below):

X A – F

☐ Credit/No Credit
☐ Optional (Student's Choice)

Repeatable for up to ☐ units

Total Completions ☐

Multiple Enrollment in Same Semester Y/N ☐

Course Level:

X Undergraduate
☐ Post-Baccalaureate
☐ Graduate

NEW

Prefix COMP Course# 362
Title Operating Systems Units (4)
3 hours lecture per week
3 hours laboratory per week

X Prerequisites: COMP 151, COMP 162, COMP 232 and COMP 262

☐ Consent of Instructor Required for Enrollment
Corequisites: ☐

Catalog Description (Do not use any symbols):

Examination of the principal types of systems including batch, multiprogramming, and time-sharing. Networked systems are also discussed. The salient problems associated with implementing systems are considered including interrupt or event driven systems, multi-tasking, storage and data base management, and input-output. Emphasis will be placed on some of the simple algorithms used to solve common problems encountered such as deadlocks, queue service, and multiple accesses to data. Projects will be implemented to reinforce the lectures

General Education Categories: ☐

Grading Scheme (Select one below):

X A – F

☐ Credit/No Credit
☐ Optional (Student's Choice)

Repeatable for up to ☐ units

Total Completions ☐

Multiple Enrollment in Same Semester Y/N ☐

Course Level:

X Undergraduate
☐ Post-Baccalaureate
☐ Graduate

3. 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>20</u>	y	Lecture	<u>3</u>	<u>1</u>	<u>20</u>	y	
Seminar		<u>1</u>			Seminar		<u>1</u>			
Lab	<u>1</u>	<u>3</u>	<u>20</u>	y	Lab	<u>1</u>	<u>3</u>	<u>20</u>	y	
Activity		<u>2</u>			Activity		<u>2</u>			
Field Studies					Field Studies					
Indep Study					Indep Study					
Other blank					Other blank					
Online					Online					

4. 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).

Online Course (Answer YES if the course is ALWAYS delivered online).

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

OLD

This course is a required course for Computer Science majors

NEW

This course is a required course for Computer Science majors

according to accreditation guidelines

X Requirement for the Major/Minor
☐ Elective for the Major/Minor
☐ Free Elective

according to accreditation guidelines

X Requirement for the Major/Minor
☐ Elective for the Major/Minor
☐ Free Elective

Submit Program Modification if this course changes your program.

6. Student Learning Outcomes. (List in numerical order. Please refer to the Curriculum Committee's "Learning Outcomes" guideline for measurable outcomes that reflect elements of Bloom's Taxonomy: <http://senate.csuci.edu/comm/curriculum/resources.htm>.

The committee recommends 4 to 8 student learning outcomes, unless governed by an external agency (e.g., Nursing).

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

OLD

- Describe the role of modern operating systems
- Design co-operating sequential processes
- Explain the interaction between hardware and software
- Synthesize and articulate ideas clearly and convincingly in oral and written forms.

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

NEW

- Describe the role of modern operating systems
- Design co-operating sequential processes
- Explain the interaction between hardware and software
- Synthesize and articulate ideas clearly and convincingly in oral and written forms.

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

OLD

Introduction to Operating Systems
Processes and Threads
Critical sections
Deadlock
CPU scheduling
Memory management
File systems
Networks
Protection and Security

NEW

Introduction to Operating Systems
Processes and Threads
Critical sections
Deadlock
CPU scheduling
Memory management
File systems
Networks
Protection and 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.

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

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

9. References. [Provide 3-5 references]

OLD Siberschatz, Galvin and Gagne, Operating System Concepts, Wiley, 2008. ISBN 0470128725
Bovet and Cesati, Understanding the Linux kernel, 2nd edition (2002) O'Reilly ISBN 0596002130
Robbins and Robbins Unix System Programming, Prentice-Hall, 2003, ISBN 0130424110
Stevens, Rago Advanced Programming in the Unix Environment, Pearson Education 2005, ISBN 021433079
Rehkind, Advanced Unix Programming, Pearson Education 2004, ISBN 0131411543
Molay, Understanding Unix/Linux Programming, Pearson Education 2003, ISBN 0130083968

NEW Siberschatz, Galvin and Gagne, Operating System Concepts, Wiley, 2008. ISBN 0470128725
Bovet and Cesati, Understanding the Linux kernel, 2nd edition (2002) O'Reilly ISBN 0596002130
Robbins and Robbins Unix System Programming, Prentice-Hall, 2003, ISBN 0130424110
Stevens, Rago Advanced Programming in the Unix Environment, Pearson Education 2005, ISBN 021433079
Rehkind, Advanced Unix Programming, Pearson Education 2004, ISBN 0131411543
Molay, Understanding Unix/Linux Programming, Pearson Education 2003, ISBN 0130083968

10. Tenure Track Faculty qualified to teach this course.

All Computer Science Faculty

11. Requested Effective Date or First Semester offered: Fall 2013

12. 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. ☐

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 1, 2012 of preceding year.

Priority deadline for Course Proposals and Modifications: October 15, 2012.

Last day to submit forms to be considered during the current academic year: April 15th.

Peter Smith

6/18/12

Proposer(s) of Course Modification

Date

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

Approval Sheet

Course: COMP 362

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.

The CI program review process includes a report from the respective department/program on its progress toward accessibility requirement compliance. By signing below, I acknowledge the importance of incorporating accessibility in course design.

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

AVP		
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Signature

Date