

CALIFORNIA STATE UNIVERSITY CHANNEL ISLANDS

COURSE MODIFICATION PROPOSAL

Courses must be submitted by October 15, 2011, and finalized by the end of the fall semester to make the next catalog (2012-13) production

DATE (CHANGE DATE EACH TIME REVISED): 6/28/11 REV 9/19/11; REV 10.11.11

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

Justification: : Modifications to this course have already been approved for Fall 2012. This change just adds cross-listing, adjusts prerequisites and justification. The intent is to remove IT 464 (see separate form) and have COMP/IT 464 as the single graphics class.

2. Course Information.

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

OLD

Prefix COMP Course# 464
Title Computer Graphics System and Design Units (3)
2 hours lecture per week
1 hours laboratory per week

X Prerequisites: COMP 350 and Math 240

☐ Consent of Instructor Required for Enrollment
Corequisites: ☐

Catalog Description (Do not use any symbols):

Topics include fundamental concepts of computer graphics.; graphics devices; graphics languages; interactive systems; applications to art, science, engineering and business; trade-offs between hardware devices and software support

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/IT Course# 464
Title Computer Graphics System and Design Units (3)
2 hours lecture per week
3 hours laboratory per week

X Prerequisites: : COMP 350 and Math 240 or COMP 221 and Math 301

☐ Consent of Instructor Required for Enrollment
Corequisites: ☐

Catalog Description (Do not use any symbols):

Topics include fundamental concepts of computer graphics.; graphics devices; graphics languages; interactive systems; applications to art, science, engineering and business; trade-offs between hardware devices and software support

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	2	1	24	y	Lecture	2	1	24	y	
Seminar		1			Seminar		1			
Lab	1	3	24	y	Lab	1	3	24	y	
Activity		2			Activity		2			
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).

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

OLD

The course is an elective course for Computer Science majors

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

NEW

The course is an elective course for the BSCS and BSIT degrees

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

Submit Program Modification if this course changes your program.

6. 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. Identify the components of a computer graphics system.
2. Analyze the Perspective Projection
3. Identify the advantages of a Raster Graphics system
4. Identify the advantages of a Vector Graphics system
5. Evaluate the trade-offs between different graphic display systems
6. Compare and evaluate different computational methods in computer graphics.
7. Organize and express ideas convincingly in oral and written forms

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

NEW

1. Identify the components of a computer graphics system.
2. Analyze the Perspective Projection
3. Identify the advantages of a Raster Graphics system
4. Identify the advantages of a Vector Graphics system
5. Evaluate the trade-offs between different graphic display systems
6. Compare and evaluate different computational methods in computer graphics.
7. Organize and express ideas 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

1. Components of a Computer Graphics system
2. Perspective Projection
3. Vector Graphics
4. Raster Graphics
5. Computational Methods
6. 2D simulations
7. 3D simulations
8. Virtual Reality

NEW

1. Components of a Computer Graphics system
2. Perspective Projection
3. Vector Graphics
4. Raster Graphics
5. Computational Methods
6. 2D simulations
7. 3D simulations
8. Virtual Reality

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.

8. 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: COMP, IT
- C. Program responsible for staffing: Computer Science

9. References. [Provide 3-5 references]

OLD Introduction to Computer Graphics, Foley, Addison-Wesley 1993,

NEW Introduction to Computer Graphics, Foley, Addison-Wesley 1993,

10. Tenure Track Faculty qualified to teach this course.

All Computer Science faculty

11. Requested Effective Date or First Semester offered: Fall 2012

12. 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. ☐

13. Will this course modification alter any degree, credential, certificate, or minor in your program? Yes X No ☐

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

Priority deadline for New Minors and Programs: **October 1, 2011** of preceding year.

Priority deadline for Course Proposals and Modifications: **October 15, 2011**.

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

Peter Smith

9/19/11

Proposer(s) of Course Modification

Date

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

Approval Sheet

Course: COMP 464

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
AVP		
Signature		Date