

**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): 6/3/10; REV 10.11.10

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	NEW
Prefix COMP Course# 447 Title Societal Issues in Computing Units (3)	Prefix COMP Course# 447 Title Societal Issues in Computing Units (3)
3 hours lecture per week	3 hours lecture per week
<span style="background-color: yellow;">      </span> hours blank per week	<span style="background-color: yellow;">      </span> hours blank per week
X Prerequisites: Senior standing	X Prerequisites: Senior Standing
<span style="background-color: yellow;">      </span> Consent of Instructor Required for Enrollment	<span style="background-color: yellow;">      </span> Consent of Instructor Required for Enrollment
Corequisites: <span style="background-color: yellow;">      </span>	Corequisites: <span style="background-color: yellow;">      </span>
<b>Catalog Description</b> (Do not use any symbols):	<b>Catalog Description</b> (Do not use any symbols):
A survey course on the role of the digital computer in modern society. Topics include: dangers of the misuse of computers, privacy, copyright, computer crime, legal and social issues, as well as the proper and intelligent use of the machines.	Surveys the role of the digital computer in modern society. Topics include: dangers of the misuse of computers, privacy, copyright, computer crime, legal and social issues, as well as the ethical and appropriate use of computers.
Graded	Graded
General Education Categories B4,D and <span style="background-color: yellow;">      </span> CR/NC	General Education Categories B4,D and <span style="background-color: yellow;">      </span> CR/NC
<span style="background-color: yellow;">      </span> Repeatable for up to <span style="background-color: yellow;">      </span> units	<span style="background-color: yellow;">      </span> Repeatable for up to <span style="background-color: yellow;">      </span> units
Interdisciplinary <span style="background-color: yellow;">      </span>	Interdisciplinary <span style="background-color: yellow;">      </span>
<span style="background-color: yellow;">      </span> Lab Fee Requested	<span style="background-color: yellow;">      </span> Lab Fee Requested
X A - F	X A - F
Total Completions <span style="background-color: yellow;">      </span>	Total Completions <span style="background-color: yellow;">      </span>
Course Level: <span style="background-color: yellow;">      </span>	Course Level: <span style="background-color: yellow;">      </span>
X Undergraduate	X Undergraduate
<span style="background-color: yellow;">      </span> Post-bac/Credential	<span style="background-color: yellow;">      </span> Post-bac/Credential
<span style="background-color: yellow;">      </span> Graduate	<span style="background-color: yellow;">      </span> Graduate
Optional (Student's choice)	Optional (Student's choice)
Multiple Enrollment in same semester	Multiple Enrollment in same semester

**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>	y	Lecture	<u>3</u>	<u>1</u>	<u>24</u>	y	<span style="background-color: yellow;">      </span>
Seminar	<span style="background-color: yellow;">      </span>	<u>1</u>	<span style="background-color: yellow;">      </span>	<span style="background-color: yellow;">      </span>	Seminar	<span style="background-color: yellow;">      </span>	<u>1</u>	<span style="background-color: yellow;">      </span>	<span style="background-color: yellow;">      </span>	<span style="background-color: yellow;">      </span>
Lab	<span style="background-color: yellow;">      </span>	<u>3</u>	<span style="background-color: yellow;">      </span>	<span style="background-color: yellow;">      </span>	Lab	<span style="background-color: yellow;">      </span>	<u>3</u>	<span style="background-color: yellow;">      </span>	<span style="background-color: yellow;">      </span>	<span style="background-color: yellow;">      </span>
Activity	<span style="background-color: yellow;">      </span>	<u>2</u>	<span style="background-color: yellow;">      </span>	<span style="background-color: yellow;">      </span>	Activity	<span style="background-color: yellow;">      </span>	<u>2</u>	<span style="background-color: yellow;">      </span>	<span style="background-color: yellow;">      </span>	<span style="background-color: yellow;">      </span>
Field Studies	<span style="background-color: yellow;">      </span>	<span style="background-color: yellow;">      </span>	<span style="background-color: yellow;">      </span>	<span style="background-color: yellow;">      </span>	Field Studies	<span style="background-color: yellow;">      </span>	<span style="background-color: yellow;">      </span>	<span style="background-color: yellow;">      </span>	<span style="background-color: yellow;">      </span>	<span style="background-color: yellow;">      </span>
Indep Study	<span style="background-color: yellow;">      </span>	<span style="background-color: yellow;">      </span>	<span style="background-color: yellow;">      </span>	<span style="background-color: yellow;">      </span>	Indep Study	<span style="background-color: yellow;">      </span>	<span style="background-color: yellow;">      </span>	<span style="background-color: yellow;">      </span>	<span style="background-color: yellow;">      </span>	<span style="background-color: yellow;">      </span>
Other blank	<span style="background-color: yellow;">      </span>	<span style="background-color: yellow;">      </span>	<span style="background-color: yellow;">      </span>	<span style="background-color: yellow;">      </span>	Other blank	<span style="background-color: yellow;">      </span>	<span style="background-color: yellow;">      </span>	<span style="background-color: yellow;">      </span>	<span style="background-color: yellow;">      </span>	<span style="background-color: yellow;">      </span>

**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
- X 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

X **D (Social Perspectives)**

**E (Human Psychological and Physiological Perspectives)**

X **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**

The course is a required course for Computer Science majors according to accreditation guidelines

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

**NEW**

The course is a required course for Computer Science majors according to accreditation guidelines

- X Requirement for the Major
- X Elective for the 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**

- Explain the roles of computers in society and solve problems with computers in social sciences
- Explain consequences of educational digital divide of modern society in political, economical, and educational contexts
- Discuss and analyze history and problems of intellectual property, invasion of privacy and freedom of speech issues.
- Explain changes in society caused by computer use: demographical, social, psychological, etc.
- Explain influence of computer use on economy (e-commerce)
- Discuss the risks and benefits of an application of

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

**NEW**

- Analyze the role of computers in society.
- Evaluate the consequences of the digital divide in modern society in political, economical, and educational contexts
- Describe the history and problems of intellectual property, invasion of privacy and freedom of speech issues.
- Analyze changes in society caused by computer use: demographical, social, psychological, etc.
- Explain influences of computer use on economy (e-commerce)
- Describe the risks and benefits of an application of computers, computer security.

computers, computer security.

- Describe the responsibilities of users and creators of computer applications.
- Organize and express ideas clearly and convincingly in oral and written forms.

- Describe the responsibilities of both users and creators of computer applications.
- 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**

The Social impact of the computer  
Philosophical ethics  
Professional ethics and responsibilities of the computer professional  
Ethics and the internet  
Social implication of computerization and values  
Privacy and computer security  
Property rights  
Accountability and legal issues  
Social implications and value

**NEW**

The Social impact of the computer  
Philosophical ethics  
Professional ethics and responsibilities of the computer professional  
Ethics and the internet  
Social implication of computerization and values  
Privacy and computer security  
Property rights  
Accountability and legal issues  
Social implications and values

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** Baase, *A Gift of Fire*, Prentice-Hall, 2<sup>nd</sup> Edition (2002) ISBN 0-13-008215-5  
Johnson, *Computer Ethics*, Prentice-Hall 3<sup>rd</sup> Edition (2001) ISBN 0-13-083699-0

**NEW** Baase, *A Gift of Fire*, Prentice-Hall, 3rd Edition (2008) ISBN 0-13-600848-8  
Johnson, *Computer Ethics*, Prentice-Hall 3<sup>rd</sup> Edition (2001) ISBN 0-13-083699-0

**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	X Course Learning Objectives
<input type="checkbox"/> Course number	X References
<input type="checkbox"/> Units	<input type="checkbox"/> GE
<input type="checkbox"/> Staffing formula and enrollment limits	<input type="checkbox"/> Other <input type="checkbox"/>
<input type="checkbox"/> Prerequisites/Corequisites	<input type="checkbox"/> Reactivate Course
X Catalog description	
<input type="checkbox"/> Mode of Instruction	

**Justification:** More appropriate wording in the course description. Reworded learning outcomes for clarity and assessability.  
Updated references

**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 15<sup>th</sup>.**

Peter D. Smith

**10/11/10**

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Proposer(s) of Course Modification

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Date

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

**Request for COMP 447: Societal Issues in Computing to be added to GE Category B4: Computers and Information Technology.**

Committee Response:

**Approved by committee on 09-24-2010**

Criteria and Justifications Submitted:

- *Promote the understanding and appreciation of the methodologies of math or science as investigative tools and the limitations of mathematical or scientific endeavors*  
Failures and benefits of computer systems are discussed throughout the course and form the basis of the portfolios collected by students. Examination of failures illustrates some limitations of computer systems and approaches taken in designing computer systems. Use of computers in mathematics, e.g., Mathematica and theorem-proving systems
- *Present mathematical or scientific knowledge in a historical perspective and the influences of math and science on the development of world civilizations, both past and present*  
Course illustrates the profound effect computers have had on society from 1950 onwards.
- *Apply inductive and deductive reasoning processes and explore fallacies and misconceptions in the mathematical or scientific areas*  
Both practical and theoretical limits on the power of computers to solve problems is discussed
- *Include use of computers or information technology to solve problems as appropriate*  
Many successful instances of information technology are discussed in e-commerce for example.

**Request for COMP 447: Societal Issues in Computing to be added to GE Category D: Social Perspectives.**

Committee Response:

**Approved by committee on 09-24-2010**

Criteria and Justifications Submitted:

- *Promote understanding of how the issues relevant to social, political, contemporary/historical, economic, educational or psychological realities interact with each other within the realm of human experience*  
Looks at how the ability to store and process very large data sets has affected daily life whether that data is stored by a government or a corporation. Examines the related problem of information overload, issues of being "always connected" in a wired and wireless society.
- *Focus on how a social science discipline conceives and studies human existence*  
Looks at how the information society has changed the study of humanity.
- *Address issues using the methods commonly employed by a social science discipline*  
Course looks at case studies involving successful and unsuccessful systems and their impacts on society. Use of surveys and their limitations

**Request for COMP 447: Societal Issues in Computing to be added to GE Category UDIGE: Upper Division Interdisciplinary GE.**

Committee Response:

**Approved by committee on 09-24-2010**

Criteria and Justifications Submitted:

- *Emphasize interdisciplinarity by integrating content, ideas, and approaches from two or more disciplines*  
Ideas of privacy and security in an increasingly networked world and the trade-offs that might be involved. Ethical responsibilities of a software engineer. What it means to be a responsible "netizen".
- *Include substantive written work consisting of in-class writing as well as outside class writing of revised prose. Examples of appropriate written work include: short papers, long papers, term papers, lab reports, documentation, disciplinary-based letters and memos, and essays.*  
Weekly quizzes require six paragraphs of responses to questions typically presenting arguments both for and against a particular issue, for example blocking of social network sites on computers in campus teaching labs. A term paper is required. Each student must choose a different topic. Four summaries of computer-related articles first published during the semester form part of a required portfolio.

# Approval Sheet

**Course:** 447

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