



Course Change Proposal Form A

Academic Group (College): Engineering & Computer Science	Academic Organization (Department): Computer Science	Date: October 15, 2006
Type of Course Proposal: New ___ Change <u>X</u> Deletion ___	Department Chair: Du Zhang	Submitted by: Bill Mitchell
Does this course fulfill a requirement for single-subject or multiple subject credential students? Yes ___ No <u>X</u>	For Catalog Copy: Yes <u>X</u> No ___ CCE: Yes ___ No ___	Semester Effective: Fall ___ Spring <u>X</u> , 2007_

This course replaces experimental course Subject Area (prefix) and Catalog Number (course number):	
This Catalog Number (course number) is being replaced:	

Change from:

Subject Area (prefix) & Catalog No. (course no.): CSC 250	Title: Computer Security and Privacy	Units: 3
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Change to:

Subject Area (prefix) & Catalog No. (course no.): CSC 250	Title: Computer Security	Units: 3
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JUSTIFICATION:

Computer Security is an emerging field of computer science and engineering with a concentration on the security issues in computer systems. Computer Security is gaining in importance due to an increase in criminal activity affecting computer systems. Currently, the US has a shortage of trained computer security analysts. Computer Science department has recently offered three new graduate courses in the same field, CSC 252 Cryptography Theory and Practice, CSC 253 Computer Forensics, and CSC 254 Network Security. This course is revised to function in parallel with these new courses. The title has been changed from "Computer Security and Privacy" to "Computer Security" because the meaning of "Privacy" is already included in "Security". Computer Security is a more general title and reflects the content of the course.

NEW COURSE DESCRIPTION: (Not to exceed 80 words, and language should conform to catalog copy. See <http://www.csus.edu/acaf/univmanual/crspsl.htm> - Guidelines for Catalog Course Description)

Principles and technologies behind computer security. Introduction to encryption and decryption; security mechanisms in computer programs, operating systems, databases, and networks; administration of computer security, and legal and ethical issues.

Note:

Prerequisite: Fully classified graduate standing in Computer Science, Computer Engineering, or Software Engineering

Corequisite:

CAN (California Articulation Number):

Graded: Letter <u>X</u> Credit/No Credit ___	Instructor Approval Required? Yes ___ No <u>X</u>
Course Classification (e.g., lecture, lab, seminar, discussion): Seminar - 05	Title for SIS+/CMS (not more than 30 characters) COMPUTER SECURITY
Cross Listed? Yes ___ No <u>X</u>	If yes, do they meet together and fulfill the same requirement, and what is the other course.

How Many Times Can This Course be Taken for Credit? 1

Can the course be taken for Credit more than once during the same term? Yes ___ No X

FOR NEW COURSE PROPOSALS OR SUBSTANTIVE CHANGES ONLY:

Description of the Expected Learning Outcomes: Describe outcomes using the following format: "Students will be able to: 1), 2), etc."
See the example at <http://www.csus.edu/acaf/example.htm>

At the successful completion of this course students should be able to:

1. Explain security threats, risks and vulnerabilities in computing systems and countermeasure
2. Describe program security, database security, and operating systems security
3. Demonstrate an understanding of various cryptography based systems
4. Examine freeware and commercially available software tools for computer security
5. Discuss legal and ethical issues related to security in computing systems

****Attach a list of the required/recommended course readings and activities [Note: it is understood that these are updated and modified as needed by the instructor(s).] This attachment should be forwarded only to your Dean's office, not Academic Affairs.**

Assessment Strategies: A description of the assessment strategies (e.g., portfolios, examinations, performances, pre-and post-tests, conferences with students, student papers) which will be used by the instructor to determine the extent to which students have achieved the learning outcomes noted above:

Assessment strategies include midterm exam, final exam, homework assignments, oral presentation, laboratory exercises, and independent projects.

For whom is this course being developed?

Majors in the Dept Majors of other Depts Minors in the Dept General Education Other

Is this course required in a degree program (major, minor, graduate degree, certificate)? Yes No

If yes, identify program(s):

Does the proposed change or addition cause a significant increase in the use of College or University resources (lab room, computer facilities, faculty, etc.)? Yes No

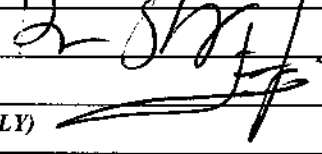
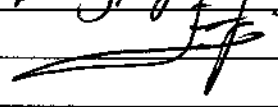
If yes, attach a description of resources needed and verify that resources are available.

Indicate which department or programs will be affected by the proposed course (if any). _____

The Department Chair's signature below indicates that affected programs have been sent a copy of this proposal form.

Approvals: If proposed change, new course or deletion is approved, sign and date below. If not approved, forward without signing to the next reviewing authority, and attach an explanatory memorandum to the original copy.

Signatures:

	Date
Department Chair: 	10/16/2006
College Dean or Associate Dean: 	10/19/06
CPSP (for school personnel courses ONLY)	
Associate Vice President and Dean for Academic Programs	

Distribution: Academic Affairs (original), Department Chair and College Dean. Dean's office to send original after approval to Academic Affairs, at mail zip 6016. An electronic copy must also be sent.