CALIFORNIA STATE UNIVERSITY CHANNEL ISLANDS

NEW COURSE PROPOSAL

PROGRAM AREAS: BIOLOGICAL AND PHYSICAL SCIENCES, MATH AND COMPUTER SCIENCE

1. Catalog Description of the Course. [Include the course prefix, number, full title, and units. Provide a course narrative including prerequisites and corequisites. If any of the following apply, include in the description: Repeatability (May be repeated to a maximum of ___ units); time distribution (Lecture ___ hours, laboratory ___ hours); non-traditional grading system (Graded CR/NC, ABC/NC). Follow accepted catalog format.]

COMP 424. COMPUTER SYSTEM SECURITY (3)
Three hours of lecture in the lab per week
Prerequisite: COMP 350.

2. Mode of Instruction.

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<tr>
<th></th>
<th>Units</th>
<th>Hours per Unit</th>
<th>Benchmark Enrollment</th>
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<tbody>
<tr>
<td>Lecture</td>
<td>3</td>
<td>1</td>
<td>24</td>
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<tr>
<td>Seminar</td>
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<td>Laboratory</td>
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<td>Activity</td>
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3. Justification and Learning Objectives for the Course. (Indicate whether required or elective, and whether it meets University Writing, and/or Language requirements) [Use as much space as necessary]

The course is an elective course for Computer Science majors.

Through this course, students will be able to

- Discuss and design modern security protocols
- Assess vulnerabilities of a computer systems and corresponding threats
- Explain impediments to security
- Assess the strength of a cryptographic system
- Organize and express ideas clearly and convincingly in oral and written forms.

This course is not designed to satisfy the University Writing or Language requirements.

4. Is this a General Education Course

<table>
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<th>If Yes, indicate GE category:</th>
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<tbody>
<tr>
<td>A (English Language, Communication, Critical Thinking)</td>
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<tr>
<td>B (Mathematics &amp; Sciences)</td>
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<tr>
<td>C (Fine Arts, Literature, Languages &amp; Cultures)</td>
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<tr>
<td>D (Social Perspectives)</td>
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<tr>
<td>E (Human Psychological and Physiological Perspectives)</td>
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5. Course Content in Outline Form. [Be as brief as possible, but use as much space as necessary]
Introduction
Encryption
Viruses and Covert Channels
Operating System Security
Data Base Security
Networks and Distributed System Security

6. References. [Provide 3 - 5 references on which this course is based and/or support it.]


7. List Faculty Qualified to Teach This Course.

All Computer Science faculty.

8. Frequency.
a. Projected semesters to be offered: Fall ___X___ Spring ___X___ Summer ___X___

9. New Resources Required.
a. Computer (data processing), audio visual, broadcasting needs, other equipment
   Use of existing computer lab.

b. Library needs
   none

c. Facility/space needs
   none

10. Consultation.
    Attach consultation sheet from all program areas, Library, and others (if necessary)

11. If this new course will alter any degree, credential, certificate, or minor in your program, attach a program modification.

Proposer of Course ___________________________ Date ___________________________