

# CALIFORNIA STATE UNIVERSITY CHANNEL ISLANDS

## NEW COURSE PROPOSAL

PROGRAM AREAS \_\_\_\_\_ BIOLOGICAL AND PHYSICAL SCIENCES

- 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.]*

### PHYS 494. INDEPENDENT RESEARCH (1-3)

Variable hours per week.

Prerequisites: Senior standing and consent of research advisor.

Contracted laboratory and/or library research in selected areas within physics conducted under the supervision of a faculty member. All students are required to present their projects at the Senior Colloquium.

### 2. Mode of Instruction.

	Units	Hours per Unit	Benchmark Enrollment
Lecture	_____	_____	_____
Seminar	_____	_____	_____
Laboratory	_____	_____	_____
Activity	_1-3_____	___2___	_____

- 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 fosters the student's initiative, organizational ability, motivation to learn and (in the case of a laboratory component) practical skills.

Students who successfully complete this course shall have:

- Complied with the terms of the mutually agreed-upon contract.
- Gained experience of research involving skills in applied physics.
- Demonstrated an ability to identify, analyze and report on a selected research area within applied physics.

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

- 4. Is this a General Education Course** YES NO  
If Yes, indicate GE category:

<b>A (English Language, Communication, Critical Thinking)</b>	
<b>B (Mathematics &amp; Sciences)</b>	
<b>C (Fine Arts, Literature, Languages &amp; Cultures)</b>	
<b>D (Social Perspectives)</b>	
<b>E (Human Psychological and Physiological Perspectives)</b>	

**5. Course Content in Outline Form.** *[Be as brief as possible, but use as much space as necessary]*

Supervised project in the field of applied physics. Content will vary by student.  
Presentation at the Senior Colloquium.

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

Appropriate reference material shall be identified by the student and the faculty mentor.

**7. List Faculty Qualified to Teach This Course.**

Physics Faculty

**8. Frequency.**

a. Projected semesters to be offered: Fall   X   Spring  X  Summer       

**9. New Resources Required.**

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

Geoff Dougherty

1/8/03

Date