

CALIFORNIA STATE UNIVERSITY CHANNEL ISLANDS

**PROGRAM MODIFICATION**

PROGRAM AREA: SCIENCES

Please use the following format to modify any existing program. Any deletions from an existing program need to be underlined (left hand column), and any additions/changes to the program need to be in CAPS (right hand column).

<b>EXISTING PROGRAM</b>	<b>PROPOSED PROGRAM</b>
<p><b>Name of Degree Program</b> Minor in Applied Physics</p> <p><b>Catalog Description of the Program</b> The Applied Physics Minor introduces the fundamental concepts of physics and applies them to the high-tech environment of digital diagnostic imaging. The program stresses transferable skills and critical thinking, and will supplement students' majors to provide further opportunities for employment within the health-care and associated fields.</p> <p><b>Requirements for the Degree Program</b> 25-26 UNITS</p> <p><b>Lower Division Requirements</b> 12 Units Required MATH 150 Calculus I (4) PHYS 200 General Physics I (4) PHYS 201 General Physics II (4)</p> <p><b>Upper Division Requirements</b> 10 Units Required PHYS/COMP/MATH 352 Digital Image Processing (3) PHYS/BIOL/COMP/HLTH 434 Introduction to Biomedical Imaging (3) <u>or</u> PHYS/COMP 445 Image Analysis and Pattern Recognition (3) PHYS/BIOL 464 Medical Instrumentation (4)</p> <p><b>Upper Division Interdisciplinary Courses</b></p> <p><b>Electives</b> <u>One of the following:</u> <u>BIOL/COMP 410 Computer Applications ...</u> <u>COMP 432 Bioinformatics</u> <u>COMP 490 Topics in Computer Science</u></p> <p><b>Required Supporting and other GE Courses</b></p> <p><b>Emphasis or Option Requirements</b></p> <p><b>Additional Courses</b></p>	<p><b>Name of Degree Program</b> Minor in Applied Physics</p> <p><b>Catalog Description of the Program</b> The Applied Physics Minor introduces the fundamental concepts of physics and applies them to the high-tech environment of digital diagnostic imaging. The program stresses transferable skills and critical thinking, and will supplement students' majors to provide further opportunities for employment within the health-care and associated fields.</p> <p><b>Requirements for the Degree Program</b> 25-26 UNITS</p> <p><b>Lower Division Requirements</b> 12 Units Required MATH 150 Calculus I (4) PHYS 200 General Physics I (4) PHYS 201 General Physics II (4)</p> <p><b>Upper Division Requirements</b> 10 Units Required PHYS/COMP/MATH 352 Digital Image Processing (3) PHYS/BIOL/COMP/HLTH 434 Introduction to Biomedical Imaging (3) <u>or</u> PHYS/COMP 445 Image Analysis and Pattern Recognition (3) PHYS/BIOL 464 Medical Instrumentation (4)</p> <p><b>Upper Division Interdisciplinary Courses</b></p> <p><b>Electives</b> CHOOSE FROM: PHYS 490 TOPICS IN PHYSICS PHYS 492 INTERNSHIP PHYS 494 INDEPENDENT RESEARCH PHYS 497 DIRECTED STUDIES PHYS 499 SENIOR COLLOQUIUM</p> <p><b>Required Supporting and other GE Courses</b></p> <p><b>Emphasis or Option Requirements</b></p> <p><b>Additional Courses</b></p>



## SUMMARY OF CHANGES

Changed electives

## JUSTIFICATION

The lower/upper division requirements are unchanged.

The choice of elective(s) have been changed to reflect the new Physics upper-division courses that were approved subsequent to the approval of the field. The thrust of the program remains unchanged, and students can study the material of any of the previous electives within the new electives if they wish.

Geoff Dougherty \_\_\_\_\_ April 7<sup>th</sup>, 2003 \_\_\_\_\_  
Proposer of Program Modification                      Date

## Approvals

\_\_\_\_\_  
Program Coordinator    Date

\_\_\_\_\_  
Curriculum Committee Chair    Date

\_\_\_\_\_  
Dean    Date

Effective Semester: \_\_\_\_\_

**California State University Channel Islands  
Program Modification Consultation Sheet**

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1. Degree Program: \_\_\_\_\_

**Recommend Approval**

<b>Program Area/Unit</b>	<b>Program/Unit Coordinator</b>	<b>YES</b>	<b>NO</b> (attach objections)	<b>Date</b>
Art				
Business & Economics				
Education				
ESRM				
Humanities				
Liberal Studies				
Mathematics & CS				
Sciences				
Library				
Information Technology				