**EXISTING PROGRAM**

**Name of Degree Program**  
Minor in Applied Physics

**Catalog Description of the Program**  
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.

**Requirements for the Degree Program**  
25-26 UNITS

**Lower Division Requirements**  
12 Units Required  
- MATH 150 Calculus I (4)  
- PHYS 200 General Physics I (4)  
- PHYS 201 General Physics II (4)

**Upper Division Requirements**  
10 Units Required  
- PHYS/COMP/MATH 352 Digital Image Processing (3)  
- PHYS/BIOL/COMP/HLTH 434 Introduction to Biomedical Imaging (3), or PHYS/COMP 445 Image Analysis and Pattern Recognition (3)  
- PHYS/BIOL 464 Medical Instrumentation (4)

**Upper Division Interdisciplinary Courses**

**Electives**  
One of the following:  
- BIOL/COMP 410 Computer Applications …  
- COMP 432 Bioinformatics  
- COMP 490 Topics in Computer Science

**Required Supporting and other GE Courses**

**Emphasis or Option Requirements**

**Additional Courses**

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**PROPOSED PROGRAM**

**Name of Degree Program**  
Minor in Applied Physics

**Catalog Description of the Program**  
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.

**Requirements for the Degree Program**  
25-26 UNITS

**Lower Division Requirements**  
12 Units Required  
- MATH 150 Calculus I (4)  
- PHYS 200 General Physics I (4)  
- PHYS 201 General Physics II (4)

**Upper Division Requirements**  
10 Units Required  
- PHYS/COMP/MATH 352 Digital Image Processing (3)  
- PHYS/BIOL/COMP/HLTH 434 Introduction to Biomedical Imaging (3), or PHYS/COMP 445 Image Analysis and Pattern Recognition (3)  
- PHYS/BIOL 464 Medical Instrumentation (4)

**Upper Division Interdisciplinary Courses**

**Electives**  
CHOOSE FROM:  
- PHYS 490 TOPICS IN PHYSICS  
- PHYS 492 INTERNSHIP  
- PHYS 494 INDEPENDENT RESEARCH  
- PHYS 497 DIRECTED STUDIES  
- PHYS 499 SENIOR COLLOQUIUM

**Required Supporting and other GE Courses**

**Emphasis or Option Requirements**

**Additional Courses**
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 7th, 2003________________________
Proposer of Program Modification Date

Approvals

___________________________________________________ Program Coordinator Date

___________________________________________________ Curriculum Committee Chair Date

___________________________________________________ Dean Date

Effective Semester: ________________________________
1. Degree Program: ________________________________

## Recommend Approval

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<th>Program Area/Unit</th>
<th>Program/Unit Coordinator</th>
<th>YES</th>
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