MINOR IN PHYSICS

Units required for Minor: 21, all of which must be taken in Physics, and a minimum of 9 upper division units is required. Written approval from a Physics faculty advisor is required.

Program Description

Physics is the most fundamental science and underlies our understanding of nearly all areas of science and technology. In a broad sense, physics is concerned with the study of energy, space, and matter, and with the interactions between matter and the laws that govern these interactions. More specifically, physicists study mechanics, heat, light, electric and magnetic fields, gravitation, relativity, atomic and nuclear physics, and condensed matter physics.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>PHYS 11A</td>
<td>General Physics: Mechanics</td>
<td>4</td>
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<tr>
<td>PHYS 11B</td>
<td>General Physics: Heat, Light, Sound, Modern Physics</td>
<td>4</td>
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<tr>
<td>PHYS 11C</td>
<td>General Physics: Electricity and Magnetism</td>
<td>4</td>
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<tr>
<td>PHYS 106</td>
<td>Introduction to Modern Physics</td>
<td>3</td>
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<tr>
<td>Required Lower Division Courses (12 Units)</td>
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<tr>
<td>Required Upper Division Courses (3 Units)</td>
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<tr>
<td>Additional Upper Division Requirements (6 Units)</td>
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Select 6 units of electives in consultation with an advisor:

- PHYS 105 Mathematical Methods in Physics
- PHYS 110 Classical Mechanics
- PHYS 115 Electronics and Instrumentation
- PHYS 124 Thermodynamics and Statistical Mechanics
- PHYS 130 Acoustics
- PHYS 135 Electricity And Magnetism
- PHYS 136 Electrodynamics of Waves, Radiation, and Materials
- PHYS 142 Applied Solid State Physics
- PHYS 145 Optics
- PHYS 150 Quantum Mechanics
- PHYS 151 Advanced Modern Physics
- PHYS 162 Scientific Computing: Basic Methods
- PHYS 175 Advanced Physics Laboratory

Total Units 21

Note: PHYS 5A, PHYS 5B may be substituted for PHYS 11A, PHYS 11C, but the 21-unit minimum must be met by additional courses in one of two ways:

- PHYS 106 plus three other upper division Physics courses OR
- PHYS 106 plus PHYS 11B plus two other upper division Physics courses.