PHYSICS MINOR

The minor in physics gives students an understanding of the most essential concepts in the field and carries the same prerequisites as the major, followed by a lighter set of requirements.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>MATH 220-1 &amp; MATH 220-2</td>
<td>Single-Variable Differential Calculus and Single-Variable Integral Calculus</td>
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<tr>
<td>or MATH 218-1 &amp; MATH 218-2 &amp; MATH 218-3</td>
<td>Single-Variable Calculus with Precalculus and Single-Variable Calculus with Precalculus</td>
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<tr>
<td>PHYSICS 140-1 &amp; PHYSICS 140-2 &amp; PHYSICS 140-3 &amp; PHYSICS 136-1 &amp; PHYSICS 136-2 &amp; PHYSICS 136-3</td>
<td>Fundamentals of Physics and Fundamentals of Physics and General Physics Laboratory and General Physics Laboratory and General Physics Laboratory</td>
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<tr>
<td>or PHYSICS 135-1 &amp; PHYSICS 135-2 &amp; PHYSICS 135-3 &amp; PHYSICS 136-1 &amp; PHYSICS 136-2 &amp; PHYSICS 136-3</td>
<td>General Physics and General Physics and General Physics Laboratory and General Physics Laboratory and General Physics Laboratory</td>
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Minor Requirements (9 units)

Core mathematics and mathematical tools courses listed below or equivalent courses approved by the department:

- MATH 230-1 & MATH 230-2 | Multivariable Differential Calculus and Multivariable Integral Calculus |
- PHYSICS 311-1 & PHYSICS 311-2 | Mathematical Tools for the Physical Sciences and Mathematical Tools for the Physical Sciences |
- or MATH 240-0 & MATH 250-0 | Linear Algebra and Elementary Differential Equations |

Core physics courses

- PHYSICS 239-0 | Foundations of Modern Physics |
- PHYSICS 330-1 | Classical Mech |
- PHYSICS 333-1 | Advanced Electricity & Magnetism |

2 other 300-level physics or astronomy courses other than:

- PHYSICS 311-1 & PHYSICS 311-2 | Mathematical Tools for the Physical Sciences and Mathematical Tools for the Physical Sciences |
- PHYSICS 312-0 | Scalar and Vector Field Methods in Physics |
- PHYSICS 335-0 | Physics of Magic |
- PHYSICS 398-0 | Independent Thesis Research |
- PHYSICS 399-0 | Independent Study |
- ASTRON 398-0 | Honors Independent Study |
- ASTRON 399-0 | Independent Study |

1 PHYSICS 312-0 Scalar and Vector Field Methods in Physics may be used in place of MATH 230-2 Multivariable Integral Calculus with department permission.