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>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 220-1 &amp; MATH 220-2</td>
<td>Single-Variable Differential Calculus and Single-Variable Integral Calculus</td>
</tr>
<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>
</tr>
<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>
</tr>
<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>
</tr>
<tr>
<td>PHYSICS 239-0</td>
<td>Foundations of Modern Physics</td>
</tr>
<tr>
<td>PHYSICS 330-1</td>
<td>Classical Mech</td>
</tr>
<tr>
<td>PHYSICS 333-1</td>
<td>Advanced Electricity &amp; Magnetism</td>
</tr>
<tr>
<td>PHYSICS 311-1 &amp; PHYSICS 311-2</td>
<td>Mathematical Tools for the Physical Sciences and Mathematical Tools for the Physical Sciences</td>
</tr>
<tr>
<td>or MATH 240-0 &amp; MATH 250-0</td>
<td>Linear Algebra and Elementary Differential Equations</td>
</tr>
<tr>
<td>PHYSICS 312-0</td>
<td>Scalar and Vector Field Methods in Physics</td>
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<tr>
<td>PHYSICS 335-0</td>
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</tr>
<tr>
<td>PHYSICS 398-0</td>
<td>Independent Thesis Research</td>
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</tr>
<tr>
<td>ASTRON 398-0</td>
<td>Honors Independent Study</td>
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Minor Requirements (9 units)

Core mathematics and mathematical tools courses listed below or equivalent courses approved by the department:¹

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<tr>
<td>MATH 230-1 &amp; MATH 230-2</td>
<td>Multivariable Differential Calculus and Multivariable Integral Calculus</td>
</tr>
<tr>
<td>PHYSICS 311-1 &amp; PHYSICS 311-2</td>
<td>Mathematical Tools for the Physical Sciences and Mathematical Tools for the Physical Sciences</td>
</tr>
<tr>
<td>or MATH 240-0 &amp; MATH 250-0</td>
<td>Linear Algebra and Elementary Differential Equations</td>
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Core physics courses

PHYSICS 333-1 | Advanced Electricity & Magnetism

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

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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.