# Minor in Bioengineering

For the minor, 12 semester hours are required, excluding prerequisite courses. Students outside the Department of Bioengineering who wish to minor in Bioengineering must complete the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOS 110</td>
<td>Biology of Cells and Organisms (or higher)</td>
<td>4</td>
</tr>
<tr>
<td>MATH 180</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 181</td>
<td>Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 210</td>
<td>Calculus III</td>
<td>3</td>
</tr>
<tr>
<td>MATH 220</td>
<td>Introduction to Differential Equations</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 141</td>
<td>General Physics I (Mechanics)</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 142</td>
<td>General Physics II (Electricity and Magnetism)</td>
<td>4</td>
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<tr>
<td></td>
<td>Total Hours</td>
<td>26</td>
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</tbody>
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<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>BIOE 101</td>
<td>Introduction to Bioengineering</td>
<td>3</td>
</tr>
<tr>
<td>BIOE 240</td>
<td>Modeling Physiological Data and Systems</td>
<td>3</td>
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<tr>
<td></td>
<td>Select one of the following (prerequisites vary):</td>
<td>3</td>
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<tr>
<td>BIOE 339</td>
<td>Biostatistics I</td>
<td></td>
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<tr>
<td>BIOE 415</td>
<td>Biomechanics</td>
<td></td>
</tr>
<tr>
<td>BIOE 421</td>
<td>Biomedical Imaging</td>
<td></td>
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<td>BIOE 430</td>
<td>Bioinstrumentation and Measurements I</td>
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<tr>
<td>BIOE 455</td>
<td>Introduction to Cell and Tissue Engineering</td>
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<tr>
<td>BIOE 460</td>
<td>Materials in Bioengineering</td>
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<tr>
<td>BIOE 475</td>
<td>Neural Engineering I: Introduction to Hybrid</td>
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<tr>
<td></td>
<td>Neural Systems</td>
<td></td>
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<tr>
<td>BIOE 480</td>
<td>Introduction to Bioinformatics</td>
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<td></td>
<td>Three additional hours of BIOE courses, which may be chosen from the list above (additional prerequisites may apply)</td>
<td>3</td>
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<tr>
<td></td>
<td>Total Hours</td>
<td>12</td>
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</tbody>
</table>