BIOMEDICAL ENGINEERING MINOR

The Minor in Biomedical Engineering provides students with an understanding of the field and opportunities to develop hands-on skills in bioinstrumentation as well as learn techniques used in biomedical imaging systems. The minor is designed so students in any science, technology, engineering, or mathematics discipline can succeed. Due to the breadth of the field, students are required to engage in an independent study or research project where they can explore a subdiscipline within the field of biomedical engineering in more depth.

Course Requirements for the Minor

The following courses, or their approved transfer equivalents, are required of all candidates for this minor.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EECE 314</td>
<td>Bioinstrumentation</td>
<td>3</td>
</tr>
<tr>
<td>MATH 120</td>
<td>Analytic Geometry and Calculus</td>
<td>4</td>
</tr>
<tr>
<td>MATH 121</td>
<td>Analytic Geometry and Calculus</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 204A</td>
<td>Physics for Students of Science and Engineering: Mechanics</td>
<td>4</td>
</tr>
</tbody>
</table>

Select one of the following: 4
- BIOL 103 Human Anatomy
- BIOL 104 Human Physiology

Select one of the following: 4
- EECE 211 Linear Circuits I
- EECE 211L and Linear Circuits I Activity
- EECE 215 Practical Circuits and Electronics
- PHYS 327 Electronics for Scientists

Select three units from the following: 3
- EECE 399 Special Problems
- EECE 499 Special Problems
- EECE 499HW Honors Project (W)

Select one of the following: 3-4
- CSCI 582 Bioinformatics
- EECE 465 Digital Signal Processing
- EECE 565 Bioimaging Systems
- EECE 566 Applied Digital Image Processing
- MECH 430 Nanoscale Science and Engineering

Total Units 29-30