# BIOINSTRUMENTATION CONCENTRATION

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BMED 355</td>
<td>Electrical Engineering Concepts for Biomedical Engineering</td>
<td>4</td>
</tr>
<tr>
<td>BMED 445</td>
<td>Biopotential Instrumentation</td>
<td>4</td>
</tr>
<tr>
<td>EE 228</td>
<td>Continuous-Time Signals and Systems</td>
<td>4</td>
</tr>
<tr>
<td>EE 251</td>
<td>Electric Circuits Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>EE/CPE 328</td>
<td>Discrete Time Signals and Systems</td>
<td>3</td>
</tr>
<tr>
<td>EE/CPE 368</td>
<td>Signals and Systems Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>IME 156</td>
<td>Basic Electronics Manufacturing</td>
<td>2</td>
</tr>
<tr>
<td>MATH 344</td>
<td>Linear Analysis II</td>
<td>4</td>
</tr>
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</table>

## Approved Technical Electives

Select from the following: 3-5

<table>
<thead>
<tr>
<th>Course Code</th>
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</tr>
</thead>
<tbody>
<tr>
<td>BMED 434</td>
<td>Micro/Nano Fabrication</td>
</tr>
<tr>
<td>BMED 515</td>
<td>Introduction to Biomedical Imaging</td>
</tr>
<tr>
<td>BMED 555</td>
<td>Neural Systems Simulation and Modeling</td>
</tr>
<tr>
<td>EE 302 &amp; EE 342</td>
<td>Classical Control Systems and Classical Control Systems Laboratory</td>
</tr>
<tr>
<td>EE 335 &amp; EE 375</td>
<td>Electromagnetic Fields and Transmission and Electromagnetic Fields and Transmission Laboratory</td>
</tr>
</tbody>
</table>

## Approved Electives

Select from the following: 3-5

<table>
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<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>BIO 232</td>
<td>Human Anatomy and Physiology II</td>
</tr>
<tr>
<td>BIO 302</td>
<td>Human Genetics</td>
</tr>
<tr>
<td>BIO 303</td>
<td>Survey of Genetics</td>
</tr>
<tr>
<td>BIO/CHEM 441</td>
<td>Bioinformatics Applications</td>
</tr>
<tr>
<td>CHEM 312</td>
<td>Survey of Organic Chemistry</td>
</tr>
<tr>
<td>CHEM 446</td>
<td>Surface Chemistry of Materials</td>
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**Total units: 29-33**