## GENERAL CURRICULUM IN BIOMEDICAL ENGINEERING

This is the default curriculum required for students who do not declare a concentration.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CE 207</td>
<td>Mechanics of Materials II</td>
<td>2-3</td>
</tr>
<tr>
<td>or EE 321</td>
<td>Electronics</td>
<td></td>
</tr>
<tr>
<td>ME 228</td>
<td>Engineering Design Communication</td>
<td>2</td>
</tr>
</tbody>
</table>

### Approved Technical Electives
- BMED 355: Electrical Engineering Concepts for Biomedical Engineering
- BMED/CE/ME 404: Applied Finite Element Analysis
- BMED 432: Micro/Nano System Design
- BMED 434/MATE 430: Micro/Nano Fabrication
- BMED 435: Microfabrication Laboratory
- BMED 436: Characterization of Micro/Nano Scale Structures
- BMED 445: Biopotential Instrumentation
- BMED 459: Senior Thesis
- BMED 510: Principles of Tissue Engineering
- BMED 515: Introduction to Biomedical Imaging
- BMED 525: Skeletal Tissue Mechanics
- BMED/MATE 530: Biomaterials
- BMED 550: Current and Evolving Topics in Biomedical Engineering
- IME 420: Simulation
- IME 430: Quality Engineering
- IME 435: Reliability for Design and Testing
- IME 527: Design of Experiments
- MATE 380: Thermodynamics and Physical Chemistry
- MATE 401: Materials Characterization Techniques
- MATE 410: Nanoscale Engineering
- MATE 425: Corrosion Engineering
- MATE/CHEM 446: Surface Chemistry of Materials
- ME 305: Introduction to Mechatronics
- ME 326: Intermediate Dynamics

### Approved Support Electives
- BIO 232: Human Anatomy and Physiology II
- BIO 302: Human Genetics
- BIO 303: Survey of Genetics
- BIO 351: Principles of Genetics
- BIO/CHEM 441: Bioinformatics Applications
- BIO 452: Cell Biology
- BUS 310: Introduction to Entrepreneurship
- CHEM 312: Survey of Organic Chemistry
- CHEM 313: Survey of Biochemistry and Biotechnology

### Total units: 28-29