GENERAL CURRICULUM IN BIOMEDICAL ENGINEERING

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

<table>
<thead>
<tr>
<th>Course</th>
<th>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: 12

- 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: 12

- 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

1 For students following the General Curriculum or Mechanical Design Concentration in BS Biomedical Engineering, CE 208 (5) may substitute for both CE 204 (3) and CE 207 (2).