**Unofficial**

B.S. in BIOMEDICAL ENGINEERING

**General Curriculum**

**Suggested 2 Year Academic Flowchart for Transfer Students Admitted Fall 2024**

Please note: This flowchart is one example of how students can graduate in 2 years. Many transfer students decide to extend their plan into a third*^ year. We encourage students to use this as a tool in creating their own unique quarter by quarter graduation plan.

Updated 6/13/2024

This Transfer Student Flowchart assumes that the courses below have been transferred to Cal Poly. Anything not transferred, needs to be added to this flowchart, which may result in an additional quarter/s. Check your DPR to verify credit:

- MATH 141
- MATH 142
- MATH 143
- MATH 241
- MATH 244
- PHYS 141
- PHYS 142
- PHYS 143
- CHEM 124
- CHEM 125
- BIO 161 (GE Area B2)
- ME 211
- ME 212
- CSC 231
- EE 201
- MATE 210
- CE 204
- ME 228

### YEAR 1

<table>
<thead>
<tr>
<th>Fall</th>
<th>Winter</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction to the Biomedical Engineering Major</td>
<td>Introduction to Biomedical Engineering Analysis</td>
<td>Principles of Biomedical Materials and Instrumentation</td>
</tr>
<tr>
<td>BMED 101 (1)</td>
<td>BMED 102 (1)</td>
<td>BMED 420 (4)</td>
</tr>
<tr>
<td>BMED 310</td>
<td>CE 204 or 208; MATE 210, BMED 310†</td>
<td>BMED 440 (4)</td>
</tr>
</tbody>
</table>

**Major**

BMED 425 (4) (CE 207 (2) or ME 302; or graduate course approval)

**Support Elective**

Approved Technical Elective (300/400 level) (4)**

**General Curriculum**

Contemporary Issues in Biomedical Engineering

BMED 450 (4)*

Biomedical Engineering Design II: Senior Project

BMED 456 (4)*

### YEAR 2

<table>
<thead>
<tr>
<th>Fall</th>
<th>Winter</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biomedical Engineering Measurement and Analysis</td>
<td>Biomedical Modeling and Simulation</td>
<td>Biomedical Engineering Measurement and Analysis</td>
</tr>
<tr>
<td>BMED 310 (4)</td>
<td>BMED 430 (2)</td>
<td>BMED 310</td>
</tr>
<tr>
<td>CE 201, MATE 210, or CSC 231, 232, or 234</td>
<td>BMED 310</td>
<td>BMED 440 (4)</td>
</tr>
<tr>
<td>BMED 310</td>
<td>CE 204 or 208; MATE 210, BMED 310†</td>
<td>BMED 450 (4)*</td>
</tr>
</tbody>
</table>

**Senior Year requirements:**

- Biomedical Engineering Measurement and Analysis
- Biomedical Modeling and Simulation
- Biomedical Engineering Measurement and Analysis

### Notes:

- MOST GENERAL EDUCATION COURSES CAN BE TAKEN IN ANY ORDER AS LONG AS PREREQUISITES ARE MET
- Refer to current catalog for prerequisites.
- **Refer to online catalog for GE course selection, United States Cultural Pluralism (USCP) and Graduation Writing Requirement (GWR).**
- Must be fulfilled before graduation by either enrolling in a GWR-approved, upper-division English course (which can double-count with the Upper Division C) or by completing the GWR Portfolio through enrollment in UNIV 401. GWR courses are searchable on Schedule Builder.
- USCP requirement can be satisfied by some (but not all) courses within GE categories: C1, Upper-Division C, D1, D Elective and E.
- † Course can be taken previously or concurrently.
- *ME 228 only required for the General Curriculum and the Mechanical Design Concentration.
- ‡CE 207 is required for the General Curriculum. CE 207 is required for the Mechanical Design Concentration.
- †† Refer to catalog for course selection. Support electives for General Concentration must total 12 units.
- †‡ Refer to catalog for course selection. Technical electives for General Concentration must total 12 units.
- †§ ENGR 459, ENGR 460, and BMED 440 (8 units) or ENGR 463 464, 465, and BMED 400 (8) may substitute for BMED 455 and BMED 456 (8).
- UNLESS A CONCENTRATION IS DECLARED, THE DEFAULT WILL BE GENERAL CURRICULUM IN BIOMEDICAL ENGINEERING.

- ^Semester transition starts Fall 2026.
- Support and guidance will be provided during the transition to ensure you graduate as planned.