CAL POLY
SAN LUIS OBISPO

B.S. in BIOMEDICAL ENGINEERING
General Curriculum
Suggested 2 Year Academic Flowchart for Transfer Students

2019-2020 Catalog
Unofficial

Please note: This flowchart is one example of how students can graduate in 2 years. Many times transfer students need longer than this. We encourage students to this use as a tool in creating their own unique quarter by quarter graduation plan.

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

- ☐ **MATH 141**
- ☐ **MATH 142**
- ☐ **MATH 143**
- ☐ **MATH 241**
- ☐ **MATH 244**
- ☐ **PHYS 141**
- ☐ **PHYS 132**
- ☐ **PHYS 133**
- ☐ **CHEM 124**
- ☐ **CHEM 125**
- ☐ **EE 201**
- ☐ **MATE 210**
- ☐ **ME 211**
- ☐ **ME 212**
- ☐ **CSC 231**
- ☐ **ENGL 149 (A3)**
- ☐ **BIO 161 (B2)**
- ☐ **BIO 231 or BIO 232**
- ☐ **CE 204**
- ☐ **ME 228**[1]

- ☐ **GE AREA A1**
- ☐ **GE AREA A2**
- ☐ **GE AREA C1**
- ☐ **GE AREA C2**
- ☐ **GE AREA C3**
- ☐ **GE AREA D1**
- ☐ **GE AREA D2**
- ☐ **GE AREA D3**
- ☐ **GE AREA E**

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YEAR 1			YEAR 2		
Fall	Winter	Spring	Fall	Winter	Spring
Introduction to the Biomedical Engineering Major **BMED 101 (1)**	*Introduction to Biomedical Engineering Analysis* **BMED 102 (1)** (BMED 101; MATH 141)	*Engineering Physiology* **BMED 460 (4)** (BMED 310, BIO 231 or 232; or graduate standing)	*Bioelectronics & Instrumentation* **BMED 440 (4)** (BMED 310 or EE 201)	*Biomedical Engineering Design I* **BMED 455 (4)**[5] (BMED 410)	*Biomedical Engineering Design II: Senior Project* **BMED 456 (4)**[5] (BMED 455)
Introduction to Biomedical Engineering Design **BMED 212 (3)** (MATH 143)	*Biomechanics* **BMED 410 (4)** (CE 204 or 208; ME 212; BMED 310†)	*Principles of Biomaterials Design* **BMED 420 (4)** (CE 204 or 208; MATE 210; BMED 310†)	*Contemporary Issues in BMED* **BMED 450 (4)*** *(Sr Standing)*	General Curriculum **Approved Technical Elective (300/400 level)** **(4)**[4]	*Biomedical Engineering Transport* **BMED 425 (4)** (ME 302, ME 341)
Biomedical Engineering Measurement and Analysis **BMED 310 (4)** (EE 201; CPE/CSC 101, CSC 231, 232, or 234)	*Biomedical Modeling and Simulation* **BMED 430 (2)** (BMED 310)	General Curriculum **Approved Support Elective** **(4)**[3]	General Curriculum **Approved Technical Elective (300/400 level)** **(4)**[4]	General Curriculum **Approved Support Elective** **(4)**[3]	General Curriculum **Approved Technical Elective (300/400 level)** **(4)**[4]
Statistical Methods for Engineers **STAT 312 (4)** (MATH 142) [B6]	*Thermodynamics I* **ME 302 (3)** (ME 212 and PHYS 132)	General Curriculum *Mechanics of Materials II* **CE 207 (2)**[2] (CE 204) **or** *Electronics* **EE 321 (3)***[2]	*Fluid Mechanics I* **ME 341 (3)** (MATH 242 or 244; ME 212)	**GE C4 (4)**** (combine with USCP requirement if still needed)	*Any GE or Support Course Not Completed*
Any GE or Support Course Not Completed	General Curriculum **Approved Support Elective** **(4)**[3]		**Graduation Writing Requirement GWR*** (Students can attempt to fulfill the requirement after 90 earned units; students should complete the requirement before senior year)		
12+	14	14-15	15	16	12+

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). USCP requirement can be satisfied by some (but not all) courses within GE categories: C3, C4, D1, D3, or D4.
† Course can be taken previously or concurrently.
[1]ME 228 only required for the General Curriculum and the Mechanical Design Concentration.
[2]CE 207 or EE 321 is required for the General Curriculum. CE 207 is required for the Mechanical Design Concentration.
[3]Refer to current catalog for course selection. Support electives must total 12 units.
[4]Refer to current catalog for course selection. Technical electives must total 12 units.
[5] ENGR 459, ENGR 460, and BMED 400 (8 units) or ENGR 463 464, 465, and BMED 400 (8) may substitute for BMED 455 and BMED 456 (8).

Legend:

Course Title
Course # (Units)
(Prerequisite)
[GE Area]

- **Major**
- **Support**
- **General Ed.**