Student Name:

CAL POLY

SAN LUIS OBISPO

Updated:

Updated By:

This document displays only your course requirements 2022-2026 Catalog at the time of publication of the catalog.

You must use your Degree Progress Report

to track all your graduation requirements.

B.S. in BIOMEDICAL ENGINEERING Suggested 4-Year Academic Flowchart

Updated 5/9/2022

FRESHMAN SOPHOMORE JUNIOR SENIOR eneral Curriculu General Curriculum Introduction to Introduction to Introduction to Biomedical Principles of Biomedical Biomedical the Biomedical Biomedical Engineering Biomedical **Enaineerina** Biomechanics . Biomaterials Engineering Modeling and Approved Approved Engineering Engineering Design Engineering leasurement and Support Elective Simulation Technical Elective Desian Transport Major Analysis Communication Design Analysis (300/400 level) BMED 212 (3) BMED 101 (1) BMED 102 (1) BMED 310 (4) BMED 410 (4) **BMED 420 (4)** BMED 425 (4) BMED 430 (2) ME 228 (2)1 $(4)^3$ EE 201; CPE/CSC 101 CE 204 or 208; ME 21: (CE 204 or 208; MATI $(4)^4$ (ME 302; ME 341) (BMED 101) (MATH 143) (BMED 310) SC 231, 232, or 234 210; BMED 310†) General Curriculum General Curriculum General Curricului Biomedical Mechanics of **Biomedical** Electric Circuit Engineering Engineering Calculus I Calculus II Calculus III Calculus IV Linear Analysis Materials II Approved Engineering Approved Design II: Senior Theory Physiology CE 207 (2)2 Support Elective Design I Technical Elective Project (300/400 level) MATH 141 (4) MATH 142 (4) MATH 143 (4) MATH 241 (4) MATH 244 (4) BMED 460 (4) EE 201 (3) BMED 455 (4)⁵ BMED 456 (4)5 $(4)^{3}$ MATH 141 w/min C-(MATH 142 w/min C Electronics BMED 310: BIO 231 o $(4)^4$ Instr. Consent or Instr. Consent) (MATH 143) (MATH 143) MATH 244; PHYS 14 (BMED 410) (BMED 455) EE 321 (3)2 232; or graduate ΓB41 [Area B Elective General Curriculum General Physics General Physics Fnaineering **Enaineerina** Materials Statistical Bioelectronics & Contemporary General Physics Methods for Issues in BMFD Statics Dynamics Engineering Annroved Instrumentation Technical Elective Engineers PHYS 141 (4) PHYS 142 (4) PHYS 143 (4) MF 211 (3) ME 212 (3) MATE 210 (3) (300/400 level) BMED 440 (4) BMED 450 (4) STAT 312 (4) (MATH 141 w/min C-MATH 142† or 182†) (CHEM 111 or 124 or HYS 141; MATH 14 MATH 241+; PHYS 1 MATH 241; ME 211 127. Recom: Concur $(4)^4$ ARCF 211) (BMED 310; EE 201) (Sr Standing) MATE 215) [Area B Elective] [Upper-Division B] Choose one: General Curriculum General General Chemistry Introduction to Programming fo luman Anatomy & Mechanics of Chemistry for for Physical Cell & Molecular Engineering Physiology I or II Thermodynamics . Fluid Mechanics I Approved Physical Science Science and Materials I BIO 231 (5) Support Elective Biology Students and Engineering . Engineering II CHEM 124 (4) BIO 232 (5) ME 341 (3) CHEM 125 (4) BIO 161 (4) CSC 231 (2) ME 302 (3) CE 204 (3) $(4)^3$ Recom: CHEM 110 IO 111 or 161; CHEN GE (4) MATH 142; PHYS 12 MATH 242 or 244; MI GE (4) 124, or 127) (ME 212; PHYS 142) (ME 211) 10, 111, 124, 127, o (CHEM 124) ** [B1 & B3] [B2 & B3] Oral Communication COMS 101 or 102 (4)** [A1] GE (4) GE (4) GE (4) GE (4) GE (4) ** ** ENGL 133 or 134 (4)** [A2] Expository Writing Graduation Writing Requirement GWR* Writing Arguments About STEM ENGL 147 (4) [A3] GE (4) can attempt to fulfill the requirement after 90 earned units: (Completion of GE A2 with a C- or better) should complete the requirement before senior year) Can be taken anytime between Winter of Freshman and Winter of Sophomore Years 17 17 16 14 16 17 18-19 15 15 16 14 16 TOTAL: 191-192

Notes:

MOST GENERAL EDUCATION COURSES CAN BE TAKEN IN ANY ORDER AS LONG AS PREREQUISITES ARE MET

USCP requirement can be satisfied by some (but not all) courses within GE categories: C1, Upper-Division C, D1, D2, Upper-Division D, or E.

UNLESS A CONCENTRATION IS DECLARED, THE DEFAULT WILL BE GENERAL CURRICULUM IN BIOMEDICAL ENGINEERING.

^{*} Refer to current catalog for prerequisites.

^{**}One course from each of the following GE areas must be completed: A1, A2, C1, C2, Lower-Division C Elective, Upper-Division C, D1, Area D Elective, Lower-Division E, and F. Upper-Division C should be taken only after Junior standing is reached (90 units).

[†] 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. CE 308 (5) may substitute for both CE 204 (3) and 207 (2).

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, 460, 461, and BMED 400 (8 units) or ENGR 463, 464, 465, and BMED 400 (8) may substitute for BMED 455 and BMED 456 (8).