

B.S. DEGREE

BIOMEDICAL ENGINEERING
CAL POLY
SAN LUIS OBISPO

2009-11
() = Prerequisites
c = Prereq. or Concurrent
† = or instructor consent

FRESHMAN			SOPHMORE			JUNIOR			SENIOR		
Fall	Winter	Spring	Fall	Winter	Spring	Fall	Winter	Spring	Fall	Winter	Spring
15 units	15 units	15-16 units	19 units	15 units	17 units	18 units	19 units	16 units	19 units	16 units	14 units
Intr. To Engr. ENGR 110	BMED Cal. BMED111 (Math 142c†)		Intr. BMED Desgn BMED 212 (Math 143 c†)	Engr. Statics ME 211 (MATH 241c & PHYS 141)	Mechanics of Materials CE 204 (ME 211)	BMED Meas. & Analysis BMED 310 (EE 201, CSC 101/234†)	Biomechanics BMED 410 (ME 212, CE 204, BMED 310†)	BMED Transport BMED 425 (ME 302, BMED 310†)	Biomed Modeling BMED 430 (BMED 420†)	Senior Project **	Spec. Topic In BMED BMED 450 (Sr. Standing)
Calculus I MATH 141 **	Calculus II MATH 142 (MATH 141 w/ ≥C-†)	Calculus III MATH 143 (MATH 142)	Calculus IV MATH 241 (MATH 143)	Linear Analysis MATH 244 (MATH 143†)	*Math & Science Elective I	Materials Engr. MATE 210 (CHEM 124/127)	Biomaterials BMED 420 (CE 204, BMED 310†)	*Math & Science Elective III	Bioelec. and Instr. BMED 440 (EE 201, BMED 310†)	*Math & Science Elective IV	BMED Design II BMED 456 (BMED 455†)
	Gen. Physics I PHYS 141 (MATH 141 w/ ≥C-, Math 142c)	Gen. Physics II PHYS 132 (PHYS 141)	Gen. Physics III PHYS 133 (PHYS 141, MATH 142)		Electric Circuit EE 201 (MATH 244, PHYS 133)	Engr. Econ. IME 314 (MATH 241)	Thermodyn ME 302 (PHYS 132 & ME 212 or CHEM 125/128)	*Advisor Approved Technical Elective III	Fluid Mechanics ME 341 (ME 212)	BMED Desgn I BMED 455 (BMED 410†)	Engr Phys BMED 460 (ZOO 331 or Equiv., BMED 310†)
Gen. Chem CHEM 124 or CHEM 127 **	Gen. Chem CHEM 125 or CHEM 128 (CHEM 124 or 127)	Fund. CSC CSC 101 or CSC 234 **	Technical Writing *ENGL 149 **	Intro to Cell Mol. Bio Bio161 **	Engr. Dynamics ME 212 (MATH 241 & ME 211)	*Math & Science Elective II	*Advisor Approved Technical Elective I		*Lit/Phil/Arts (300-400 level) C4 **		*Advisor Approved Technical Elective IV
*Writing: Expo ENGL 134 A1		*Communi-cation COMS 101/102 A2	Comparative Social Institutions* D3	*Political Economy D2	*American Experience D1	*Literature C1 **	*Advisor Approved Technical Elective II	*Philosophy C2 **	*Self Development D4	*Fine and Performing Arts C3	

USCP

GWR

* The placement of these courses does not imply that they must be taken in the quarter indicated. Subject to satisfaction of prerequisites, courses can be taken at a time convenient for the student and a time which meshes with the ability of the offering department to meet demand. Please note that this course sequence is not THE path to the BMED BS degree, it is A path to the BMED BS degree.

** Refer to current catalog for pre-requisites.

Refer to 2009-2011 Catalog for GE&B course selection, multidisciplinary requirement, cultural pluralism, and GWR requirement.

Check for automatic substitutions at <http://www.eadvice@calpoly.edu>