

**BS ELECTRICAL ENGINEERING**

**2007-09 Cal Poly Catalog**

**Electrical Engineering Department**  
**Engineering East Bldg. (20), Room 200**  
**(805) 756-2781**

- 60 units upper division       GWR
- 2.0 GPA                               USCP

\* = Satisfies General Education requirement

**MAJOR COURSES**

EE 111, 151 Intro to Electrical Engineering & Lab	1,1
EE 112 Electric Circuit Analysis I .....	2
EE 129, 169 Digital Design and Lab.....	3,1
EE 211, 241 Electric Circuit Analysis & Lab II.....	3,1
EE 212, 242 Electric Circuit Analysis & Lab III ....	3,1
EE 228 Continuous-Time Signals and Systems .....	4
EE 229, 269 Computer Design and Assembly Language Programming and Lab .....	3,1
EE 255, 295 Energy Conversion Electromag, Lab ..	3,1
EE 302, 342 Classical Control Systems and Lab ....	3,1
EE 306, 346 Semiconductor Device Electronics and Lab .....	3,1
EE 307, 347 Digital Electronics and Integrated Circuits and Lab .....	3,1
EE 308, 348 Analog Electronics and Integrated Circuits and Lab .....	3,1
EE 314 Introduction to Communication Systems ....	3
EE 328 Discrete Time Signals and Systems and EE 368 Signals and Systems Laboratory.....	3,1
EE 329 Programmable Logic and Microprocessor- Based Systems Design.....	4
EE 335 Electromagnetic Fields and Transmission	4
EE 375 Electromagnetic Fields and Transmission Laboratory .....	1
EE 402 Electromagnetic Waves .....	4
EE 409, 449 Electronic Design and Lab .....	3,1
EE 460 Senior Project Preparation.....	2
EE 461 Senior Project I or EE 463 Senior Project Design Laboratory I.....	3
EE 462 Senior Project II or EE 464 Senior Project Design Laboratory II .....	2
Advisor approved technical electives.....	12
Select a minimum of 2 EE senior design laboratories and 2 EE senior design lectures.	

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**SUPPORT COURSES**

BIO 213 and ENGR/BRAE 213 (B2)* .....	2,2
CHEM 124 Gen Chem for Engineering (B3/B4)*	4
CSC 101 Fundamentals of Computer Science I.....	4
ENGL 149 Technical Writing for Engineers (A3)*	4
IME 156 Basic Electronics Manufacturing or IME 157 Electronics Manufacturing .....	2
MATH 141, 142 Calculus I, II (B1)* .....	4,4
MATH 143 Calculus III (Add'l Area B)*.....	4
MATH 241 Calculus IV .....	4
MATH 244 Linear Analysis I .....	4
PHYS 141 General Physics IA (Add'l Area B)* ....	4
PHYS 132, 133 General Physics II, III .....	4,4
PHYS 211 Modern Physics I .....	4

STAT 350 Probability and Random Processes for Engineers (B6)* .....	4
Approved engineering support electives .....	9
Select at least 3 courses from list of approved courses (on file in EE Department)	

**67**

**GENERAL EDUCATION (GE)**

72 units required; 32 units are in Support.  
 →See page 56 for complete GE course listing.  
 →Minimum of 8 units required at the 300-400 level.

**Area A Communication (8 units)**

A1 Expository Writing .....	4
A2 Oral Communication .....	4
A3 Reasoning, Argumentation, and Writing * 4 in Support.....	0

**Area B Science and Mathematics (no additional units  
required)**

B1 Mathematics/Statistics * 8 units in Support.....	0
B2 Life Science * 4 units in Support .....	0
B3 Physical Science * 4 units in Support .....	0
B4 One lab taken with either a B2 or B3 course (requirement for Liberal Arts students only)	
B6 Upper-division Area B * 4 units in Support ....	0
Additional Area B units* 8 units in Support .....	0

**Area C Arts and Humanities (16 units)**

C1 Literature .....	4
C2 Philosophy .....	4
C3 Fine/Performing Arts .....	4
C4 Upper-division elective .....	4

**Area D/E Society and the Individual (16 units)**

D1 The American Experience (40404) .....	4
D2 Political Economy .....	4
D3 Comparative Social Institutions .....	4
D4 Self Development (CSU Area E) .....	4

**40**

**ELECTIVES**..... **0**

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