

BS COMPUTER ENGINEERING

2007-09 Cal Poly Catalog

Computer Engineering Program

Engineering East Building (20), Room 215
(805) 756-1229

- 60 units upper division GWR
- 2.0 GPA USCP

* = Satisfies General Education requirement

MAJOR COURSES

CPE 100 Computer Engineering Orientation	1
CPE 101 Fundamentals Computer Science I.....	4
CPE 102, 103 Fund Computer Science II, III	4,4
CPE 129, 169 Digital Design and Lab	3,1
CPE 229, 269 Comp Des/Assembly Lang Prog, Lab	3,1
CPE 315 Computer Architecture.....	4
CPE 316 Micro Controllers and Embedded Apps....	4
CPE 329 Progr Logic/Micro-Based Sys Des	4
CPE 350 CPE Capstone Preparation	4
CPE 357 Systems Programming	4
CPE 450 CPE Capstone Project	4
CPE 453 Operating Systems I.....	4
CPE 461, 462 Senior Project I, II.....	3,2
CPE 464 Introduction to Computer Networks	4
CSC 141 Discrete Structures I	4
EE 112 Electric Circuit Analysis I	2
EE 211, 241 Electric Circuit Analysis II and Lab	3,1
EE 212, 242 Electric Circuit Analysis III and Lab	3,1
EE 228 Continuous-Time Signals and Systems	4
EE 306, 346 Semiconductor Device Electr, Lab.....	3,1
EE 307, 347 Digital Integrated Electronics and Lab	3,1
Advisor approved technical electives.....	12
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	96

SUPPORT COURSES

BIO 213 and ENGR/BRAE 213 (B2)*	2,2
CHEM 124 Gen Chem for Engineering (B3/B4)*	4
Approved CSC/EE/MATH/science elective	3
ENGL 149 Technical Writing for Engineers (A3)*	4
IME 156/IME 157/IME 458.....	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
ME 211 Engr Statics or MATE 210, 215 (4).....	3
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 Prob/Random Processes Engr (B6)*	4
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	60

GENERAL EDUCATION (GE)

- 72 units required; 32 units are in Major/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 units in Support	0

Area B Science and Mathematics (no add'l units reqd)

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	
B5 (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
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ELECTIVES	0
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