BS SOFTWARE ENGINEERING

2007-09 Cal Poly Catalog

Computer Science Department

Computer Science Bldg. (14), Room 254
(805) 756-2824

☐ 60 units upper division  ☐ GWR
☐ 2.0 GPA  ☐ USCP

*= Satisfies General Education requirement

MAJOR COURSES

CSC 101 Fundamentals Computer Science I .......... 4
CSC 102 Fundamentals of Computer Science II
or CSC 108 Accelerated Intro to Computer Science (9-25-07) .......... 4
CSC 103 Fundamentals of Computer Science III .... 4
CSC 141 Discrete Structures I .................................. 4
CSC 300 Professional Responsibilities .................. 4
CSC 305 Individual Software Design & Dev ............ 4
CSC 308 Software Engineering I .................................. 4
CSC 309 Software Engineering II .............................. 4
CSC 349 Design and Analysis of Algorithms .......... 4
CSC 353 Systems Programming for Software Engrs
or CSC 225 Intro Computer Org (8-30-07) ........ 4
CSC 402 Software Requirements Engineering .......... 4
CSC 405 Software Construction ................................. 4
CSC 406 Software Deployment ................................... 4
CSC 430 Programming Languages I ............................ 4
CSC 453 Intro to Operating Systems .... 4
CSC 484 User-Centered Interface Design & Dev. .... 4
CSC 491, 492 Senior Project Design Lab I, II ........ 2,3
Advisor approved cooperative education
experience via CSC 400 or technical elective equivalent .................. 4
Advisor approved technical electives...................... 20
Subject to Computer Science Department guidelines; contact the College of Engineering Advising Center (www.ee.calpoly.edu/CENGAC) for additional information and agreement form. Technical electives must be approved in advance.

SUPPORT COURSES

BIO 213 and ENGR/BRAE 213 (B2)* .................. 2,2
ENGL 149 Technical Writing for Engineers (A3)* 4
IME 314 Engineering Economics .......................... 3
IME 430 Quality Engineering ................................. 4

note: prerequisite waived for SE students

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
Select one from: MATH 248, 304, 333, 335,
336, 451 .................................................. 4

Course number corrected effective Summer 2007

PSY 201/202 General Psychology (D4)* ................. 4
PSY 350 Teamwork or PSY 351 Group Dynamics .... 4
Science electives (B3/4)* (Add’l 4 units Area B)* 12

Select either
CHEM 124, 125, 129 or
PHYS 141, 132, 133

STAT 312 Statistical Methods for Engineers (B6)* 4

GENERAL EDUCATION (GE)

72 units required; 36 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 req’d)

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 a 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 (12 units)

D1 The American Experience (40404) .................. 4
D2 Political Economy .......................................... 4
D3 Comparative Social Institutions ....................... 4
D4 Self Dev (CSU Area E) * 4 units in Support .... 0

ELECTIVES ................................................. 0

192

93