BS COMPUTER SCIENCE

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 of 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
CPE 129, 169 Digital Design and Lab .................... 3,1
CPE 229, 269 Computer Design and Assembly Language Programming, and Lab (3,1) or
CSC 225 Intro to Computer Organization (4) ...... 4
CSC 300 Professional Responsibilities .................. 4
CSC 307 Intro to Software Engineering (4) or
†CSC 308/309 Software Engineering I, II (4/4) ..... 4/8
CSC 315 Computer Architecture ........................ 4
CSC 349 Design and Analysis of Algorithms .......... 4
CSC 357 Systems Programming ........................... 4
CSC 430 Programming Languages I.................... 4
CSC 431 Programming Languages II .................... 4
CSC 445 Theory of Computing ............................ 4
CSC 453 Introduction to Operating Systems .......... 4
CSC 491, 492 Senior Project Design Lab I, II ...... 2,3
Advisor approved technical electives................. 24/20

89

SUPPORT COURSES

BIO 213 and ENGR/BRAE 213 (B2)* .................. 2,2
ENGL 149 Technical Writing for Engineers (A3)* .... 4
MATH 141, 142 Calculus I, II (B1)* .............. 4,4
STAT 321 Prob/Stats for Engrs/Scientist (B6)* .... 4
Approved support electives ......................... 8
(See www.eadvise.calpoly.edu for approved electives)

Mathematics/statistics electives. Select from ........ 8
CSC 142; MATH 143, 206, 241, 244, 248, 306,
335, 336, 437, 470; STAT 322.

Science elective (Add’l Area B)* Select from
BIO 111, 115, 151; BOT 121; CHEM 124;
MCRO 221, 224; PHYS 141 (no double
counting of units).......................................... 4

Physical science electives (B3/4)* (Add’l Area B)* 12
CHEM 124, 125, 129 or
PHYS 141, 132, 133

52

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
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 (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

181

†CSC 309 counts as technical elective.
Subject to CSC Department guidelines; contact the College of
Engineering Advising Center (www.eadvise.calpoly.edu) for
additional information and agreement form. Technical
electives must be approved in advance.