

2009-11 Cal Poly Catalog

Computer Science Department

Flowchart

BS COMPUTER SCIENCE

- 60 units upper division GWR
- 2.0 GPA USCP

* = Required in Support; also satisfies GE

Note: No major or support courses may be taken as credit/no credit.

MAJOR COURSES

CSC 101 Fundamentals of Computer Science I.....	4
CSC 102 Fundamentals of Computer Science II or CSC 108 Accelerated Intro Computer Science	4
CSC 103 Fundamentals of Computer Science III	4
CSC 141 Discrete Structures I	4
¹ CSC 225 Intro to Computer Organization (4)	4
CSC 300 Professional Responsibilities	4
CSC 307 Intro to Software Engineering (4) or	
² 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.....	28/24

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.

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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 <i>or</i> STAT 312 Stat Methods for Engrs (B6)* (7/23/09)	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- 325 .	
Corrected effective Summer 2009.	
Science elective (Add'l Area B)* Select from BIO 111, 115, 161; BOT 121; CHEM 124; MCRO 221, 224; PHYS 141 (no double counting of units).....	4
Physical science electives (B3/4)* (Add'l Area B)* CHEM 124, 125, 129 <i>or</i> PHYS 141, 132, 133	12

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GENERAL EDUCATION (GE)

72 units required, 32 of which are specified in Support.

→See page 50 for complete GE course listing.

→Minimum of 8 units required at the 300 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

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ELECTIVES

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¹ CPE 129/169 and CPE 229/269 may be substituted for CSC 225.

² CSC 309 counts as technical elective.