NOTE: This document can be used as a compact display of courses and other curricular requirements. The Degree Progress Report must be used to track students’ progress in all degree requirements, throughout their Cal Poly career.

* = Required in Support; also satisfies GE

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MAJOR COURSES (B9) Units
CSC 123 Introduction to Computing 4
CSC 101 Fundamentals of Computer Science I 4
CSC 102 or CPE 108 4
CSC 103 Fundamentals of Computer Science III 4
CSC 141 Discrete Structures I 4
CPE 225 Introduction to Computer Organization 4
CSC 306 Professional Responsibilities 4
CSC 307 Intro to Software Engineering or 4 or
CSC 308 CSC 309 Software Engr I, II 4,4
CSC 315 Computer Architecture 4
CSC 349 Design and Analysis Algorithms 4
CSC 357 Systems Programming 4
CSC 430 Programming Lang I 4
CSC 445 Theory of Computing 4
CSC 453 Introduction to Operating Systems 4
CSC 491 Senior Project Design Lab I 2
CSC 492 Senior Project Design Lab II 3
Technical electives 28/24
Select from technical electives guidelines, on reverse.

SUPPORT COURSES (52) 2

BIO 213 and ENGR/BRAE 213 (B2)* 2
ENGL 149 Technical Writing for Engrs (A3)* 4
MATH 141 Calculus I (B1)* 4
MATH 142 Calculus II (B1)* 4
STAT 321 Prob/Stats for Engrs/Scientists (B6)* or
STAT 312 Methods for Engrs (B6)* 4
Approved support electives 8
The courses selected may not be used to satisfy other major,
support, or General Education requirements (no double counting
of coursework) Select from the following:
ENGL 302, 310, 392; PSY 252, 302; RELS 370;
COMS 201, 301, 315

Mathematics/statistics electives 8
Select from: CSC 142; MATH 143, 206, 241, 244, 248,
306, 335, 336, 437, 470; STAT 325

Science elective (Add’l Area B)* 4
Select from: BIO 111, 115, 161; BOT 121; CHEM 124;
MCRO 221, 224; PHYS 141 (no double counting units)

Physical science electives (B3/B4)* (Add’l Area B)* 12
CHEM 124, 125, 129 or
PHYS 141, 132, 133

GENERAL EDUCATION (GE) 40

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

Area A Communication
A1 ENGL 133/134 4
A2 COMS 101/102 4
Area B Science and Mathematics
A3 Reasoning, Arg, and Writing *4 units in Support
Area C Arts and Humanities 16
C1 Literature 4
C2 Philosophy: PHIL 230/231 4
C3 Fine/Performing Arts 4
C4 Upper-division (300-elective) 4
Area D/E Society and the Individual 16
D1 The American Experience (40404) 4
D2 Political Economy 4
D3 Comparative Social Institutions 4
D4 Self Development (CSU Area E) 4

Additional GE (if needed)

FREE ELECTIVES 0

1 CPE 129/169 and CPE 229/269 may be substituted for CSC 225.
2 CSC 309 counts as a technical elective.
3 Consultation with advisor is recommended prior to selecting technical electives
or approved electives; bear in mind your selections may impact pursuit of
post-baccalaureate studies and/or goals.

OTHER DEGREE REQUIREMENTS:
- Cal Poly, Higher Ed, and Major GPA must all be at least 2.00

All students must complete:
- United States Cultural Pluralism Requirement
- Graduation Writing Requirement
- 60 units Upper Division (any 300-400 level classes)
- Upper Division units in the Major: 27
- Residency Requirements: See Degree Progress Report for details
Technical Electives Guidelines
BS Computer Science

Courses used to satisfy any other major, support, or general education requirement are not allowed to count toward Technical Elective requirement. Credit/No Credit grading is not allowed.

Contact the CSC Department for further information.

Category 1 ................................................................. 16
Category 1a: Prerequisites and Individual Courses
Select 8 units from the following:
CSC/CPE 305, 341/342, 365, 369, 448, 464, 471,
477, 480, 484, 488, 587

Category 1b: Specialization Areas
Select 4 units from each of two separate areas:
Graphics: CSC/CPE 473, 474, 475, 476, 478, or
CSC 572
Databases: CSC/CPE 366, 466, 468, or CSC 560
Networks: CSC/CPE 465 or 564
Distributed Computing: CSC/CPE 469 or 569
OS: CSC/CPE 454, 456, 458, 556, or CSC 550
Architecture: CSC/CPE 316, 416, 459, 520, or
CPE 482 "Robotics"
Languages/Compilers: CSC/CPE 434 or CSC 530
Software Engineering: CSC/CPE 402, 405, 406, 409,
437; CSC 508, or 509
GUI/HCI: CSC/CPE 435, 483, 487, 581, or CSC 486
AI: CSC/CPE 416, 481, 485, 581, or CSC 482 "Autonomous Mobile
   Robotics" or Multi-Robot Systems"

Category 2 ................................................................. 8/12
Select from Categories 2a, 2b, and/or 2c.
If CSC 308 and 309 are taken for the Major Core, only 8
units are required for Category 2.

Category 2a: Additional CSC/CPE Electives
Select any unused course from Categories 1a and 1b
(maximum 12 units).

Category 2b: Auxiliary CSC/CPE Electives
(maximum 4 units)
Select from:
   CSC 358, 400 (requires form/approval), 479
   (maximum 2 units), 490

Category 2c: External Electives
(maximum 4 units)
Select from:
   AERO 450;
   ART 384;
   BUS 310, 320;
   CHEM 312, 316, 317, 318;
   ECON 339;
   EE 201/251, 314, 336, 424;
   ENVE 542;
   GRC 316, 331, 338 ;
   IME 301, 314, 356;
   MATH 206, 241, 242, 244, 248, 304, 341, 350, 412;
   ME 211, 212, 405;
   PHIL 412, 422;
   PSY 329, 333, 351, 366, 457;
   STAT 323, 324, 330

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