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.

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### MAJOR COURSES (89)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSC 123</td>
<td>Introduction to Computing</td>
<td>4</td>
</tr>
<tr>
<td>CSC 101</td>
<td>Fundamentals of Computer Science I</td>
<td>4</td>
</tr>
<tr>
<td>CSC 102 or CPE 108</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>CSC 103</td>
<td>Fundamentals of Computer Science III</td>
<td>4</td>
</tr>
<tr>
<td>CSC 141</td>
<td>Discrete Structures I</td>
<td>4</td>
</tr>
<tr>
<td>CPE 225</td>
<td>Introduction to Computer Organization</td>
<td>4</td>
</tr>
<tr>
<td>CSC 300</td>
<td>Professional Responsibilities</td>
<td>4</td>
</tr>
<tr>
<td>CSC 307</td>
<td>Intro to Software Engineering or CSC 308/CSC 309 Software Engr I, II</td>
<td>4 or 4/4</td>
</tr>
<tr>
<td>CSC 315</td>
<td>Computer Architecture</td>
<td>4</td>
</tr>
<tr>
<td>CSC 349</td>
<td>Design and Analysis Algorithms</td>
<td>4</td>
</tr>
<tr>
<td>CSC 357</td>
<td>Systems Programming</td>
<td>4</td>
</tr>
<tr>
<td>CSC 430</td>
<td>Programming Lang I</td>
<td>4</td>
</tr>
<tr>
<td>CSC 445</td>
<td>Theory of Computing</td>
<td>4</td>
</tr>
<tr>
<td>CSC 453</td>
<td>Introduction to Operating Systems</td>
<td>4</td>
</tr>
<tr>
<td>CSC 491</td>
<td>Senior Project Design Lab I</td>
<td>2</td>
</tr>
<tr>
<td>CSC 492</td>
<td>Senior Project Design Lab II</td>
<td>3</td>
</tr>
<tr>
<td>3 Technical electives</td>
<td></td>
<td>28/24</td>
</tr>
</tbody>
</table>

Select from technical electives guidelines, on reverse.

### SUPPORT COURSES (52)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 213</td>
<td>and</td>
<td></td>
</tr>
<tr>
<td>ENGR/BRAE 213 (B2)*</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>ENGL 149</td>
<td>Technical Writing for Engrs (A3)*</td>
<td>4</td>
</tr>
<tr>
<td>MATH 141</td>
<td>Calculus I (B1)*</td>
<td>4</td>
</tr>
<tr>
<td>MATH 142</td>
<td>Calculus II (B1)*</td>
<td>4</td>
</tr>
<tr>
<td>STAT 321</td>
<td>Prob/Stats for Engrs/Scientists (B6)* or STAT 312 Methods for Engrs (B6)*</td>
<td>4</td>
</tr>
</tbody>
</table>

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

### GENERAL EDUCATION (GE) 40

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

Refer to current schedule or [http://www.ge.calpoly.edu](http://www.ge.calpoly.edu) to choose GE courses. You will not receive credit for courses not on the approved lists.

Minimum of 8 units required at the 300 level

**Area A Communication** 8

- A1 ENGL 133/134 ................................................... 4
- A2 COMS 101/102 ................................................... 4
- A3 Reasoning, Arg, and Writing *4 units in Support

**Area B Science and Mathematics** (no add’l units req’d) 28 units are listed 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

### FREE ELECTIVES (if needed) 0

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

2CSC 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
Artificial Intelligence: CSC/CPE 416, 481, 485, 489, 580, 581, or CPE 482 "Autonomous Mobile Robots" or Multi-Robot Systems",
Computational Sciences/Theory: CSC/CPE 449, CSC 343, 540, or 541

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 452;
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