NOTE: This document can be used as a compact display of courses and other curricular requirements at the time of publication of the 2015-2017 catalog. The Degree Progress Report must be used to track students' progress in all degree requirements, throughout their Cal Poly career.

Note: No major or support courses may be selected as credit/no credi		
MAJOR COURSES (88)	Units	
CSC/CPE 101 Fund Computer Science I	4	
CSC/CPE 102 or CSC/CPE 108	4	
CSC/CPE 103 Fund Computer Science III	4	
CSC/CPE 123 Introduction to Computing 4	4	
CSC/CPE 225 Intro to Computer Organization	4	
CSC/CPE 300 Professional Responsibilities	4	
CSC/CPE 307 Intro to Software Engineering or	4 <i>or</i>	
CSC 308, CSC 309 Software Engineering I ²	4,4	
CSC/CPE 315 Computer Architecture	4	
CSC 348 Discrete Structures	4	
CSC/CPE 349 Design and Analysis of Algorithms	4	
CSC/CPE 357 Systems Programming	4	
CSC/CPE 430 Programming Languages I	4	
CSC/CPE 431 Programming Languages II	4	
CSC 445 Theory of Computation I	4	
CSC/CPE 453 Introduction to Operating Systems	4	
CSC 491 Senior Project Lab I	2	
CSC 492 Senior Project Lab II	2	
Concentration or Technical Electives	24	
Select concentration, or select from the lists in		
technical electives guidelines on reverse 3,5		

SUPPORT COURSES (52/53)

Life Science Support Elective	4-5
Select from the following: BMED 213 and BIO 213;	
BIO 111, 161; BOT 121; MCRO 221, 224 (B2) ¹	
ENGL 149 Technical Writing for Engineers (A3) ¹	4
MATH 141 Calculus I (B1) ¹	4
MATH 142 Calculus II (B1) ¹	4
MATH 143 Calculus III	4
MATH 206 or 244	4
STAT 312 Statistical Methods for Engineers (B6) ¹	4
Upper-division Electives	4
Select from any upper division	
Mathematics/Statistics Electives	4
Select from: MATH 241, 248, 306, 335, 336, 437, 470; STAT 313, 323,	
324, 330, 331, 416, 418, 419	
Additional Science Elective (Additional Area B) ^{1,6}	4
Select from: BIO 111, 161; BOT 121; CHEM 124; MCRO 221, 224;	1
PHYS 141	
Physical Science Electives (B3/B4) (Additional Area B) ¹	12
CHEM 124, 125, 126 or	
PHYS 141, 132, 133	

		40
GENERAL EDUCATION (GE)		40
72 units required, 32 of which are specified in Support	_	
Refer to <u>current schedule</u> or <u>http://www.ge.calpoly.edu</u> to choose GE courses.	1	
You will <u>not</u> receive credit for courses not on the approved lists.		
Minimum of 8 units required at the 300 level.	= 4	
Area A Communication		8
A1 Expository Writing	. 4	
A2 Oral Communication	. 4	1
A3 Reasoning, Argu & Writing (4 units in Support) ¹		
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	. 4	1
C3 Fine/Performing Arts	4	1
C4 Upper-division elective		7
Area D/E Society and the Individual		16
D1 The American Exp (40404)	. 4	
D2 Political Economy	. 4	7
D3 Comp Social Institutions		1
D4 Self Dev (CSU Area E)	. 4	7
FREE ELECTIVES	0	
¹ Required in Support; also satisfies GE.		
² CSC 309 counts as technical elective. Students in the Interactive Entertainme	nt	

OTHER DEGREE REQUIREMENTS:

- · Cal Poly, Higher Ed, and Major GPA must all be at least 2.00
- For students admitted Fall 2016 and after, a grade of C- or higher is required in GE A1, A2, A3, and one GE B1 course

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

Concentration are advised to take CSC 307 instead of CSC 308 & 309.

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

⁴ An additional 4 units of CSC/CPE technical electives may be substituted, although new students are strongly encouraged to take CSC/CPE 123.

⁵ An additional 4 units of CPE/CSC technical electives is needed if CSC 123 is not taken.

 $^{^{\}rm 6}$ No double counting is allowed between Additional Science Support Elective and Life

TECHNICAL ELECTIVES

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. Select Technical Electives from the following: ¹

CSC/CPE 301, 305, 309, 344, 365, 366, 369, 378, 402, 405, 406, 409, 416, 419, 435, 436, 437, 448, 454, 458, 464, 465, 466, 468, 471, 473, 474, 476, 478, 480, 481, 483, 484, 485, 489, 515, 564, 569, 580, 581; CSC 321, 323, 358, 371, 400, 410, 424, 429, 477, 479, 486,

490, 496, 508, 509, 521, 530, 540, 550, 560, 566, 570, 572, 582;

CPE 400*, 428, 482, 488;

DATA 301

Note: The following restrictions must be satisfied.

4 units must be satisfied by a course that has as a prerequisite either

- 1) An upper-division course required by the major (excluding CSC 357 & 348) or
- 2) Another technical elective.

Select from the following:

CSC/CPE 366, 402, 405, 406, 409, 416, 435, 437, 454, 465, 466, 468, 473, 474, 476, 478, 481, 483, 484, 489, 515, 564, 580, 581;

CSC 410, 424, 429, 477, 479, 486, 508, 509, 521, 530, 540, 550,

560, 566, 572, 582;

Up to 4 units may be taken from CSC 358, CSC 400*, CPE 400*, CSC 479 (maximum 2 units), or CSC 490.

Up to 4 units may be taken from approved external electives.

Select from the following:

AERO 450;

ART 384;

BUS 310;

CHEM 216, 217, 218, 312;

ECON 339;

EE 201/251, 314; EE/CPE 336; EE 424;

ENVE 542;

IME 301, 314, 356;

MATH 241, 242, 248, 304, 341, 350, 412;

ME 211, 212, 405;

PHIL 412, 422;

PSY 329, 333, 351, 457;

STAT 313, 323, 324, 330, 331, 416, 418, 419

CONCENTRATION

Interactive Entertainment (24)

CSC 371 Game Design	4
CSC/CPE 378 Interactive Entertainment Engineering	4
CSC/CPE 471 Introduction to Computer Graphics	4
CSC/CPE 476 Real-Time 3D Computer Graphics Software	4
CSC/CPE 480 Artificial Intelligence	4
Select from the following	4
CSC/CPE 473, 474, 478, 484, 580;	
CSC 572	

¹ A total of 24 technical elective units selected from upper-division and graduate CSC and CPE courses open to those in the major and not otherwise required by the major. An additional 4 units of CPE/CSC technical electives is needed if CSC 123 is not taken.

^{*} An approved course substitution form is required.