

NOTE: This document can be used as a compact display of courses and other curricular requirements at the time of publication of the 2017-2019 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 credit.*

*Note: All ARCE majors must obtain a grade of C- or better in ARCE courses that are prerequisites for other ARCE courses.*

<b>MAJOR COURSES (71)</b>	Units	Grade	Grd Pts
ARCE 106 Intro Building Systems	2		
ARCE 211 Structures I	3		
ARCE 212 Structures II	3		
ARCE 223 Mechanics of Structural Members	3		
ARCE 224 Mech of Structural Members Lab	1		
ARCE 227 Structures III	2		
ARCE 257 Structural CAD for Bldg Design	2		
ARCE 302 Structural Analysis	3		
ARCE 303 Steel Design I	3		
ARCE 304 Timber Design	3		
ARCE 305 Masonry Design	2		
ARCE 306 Matrix Analysis of Structures	3		
ARCE 352 Struct Comp Analysis	1		
ARCE 353 Matrix Struct Comp Analysis	1		
ARCE 354 Numerical Analysis Laboratory	1		
ARCE 371 Structural Systems Laboratory	3		
ARCE 372 Steel Structures Design Laboratory	3		
ARCE 412 Dynamics of Framed Structures	3		
ARCE 421 Soil Mechanics	3		
ARCE 422 Foundation Design	3		
ARCE 444 Reinforced Concrete Design	4		
ARCE 451 Timb/Mason Design Lab	3		
ARCE 452 Concrete Struct Design & Const. Lab	3		
ARCE 476 Building Systems	3		
ARCE 483 Seismic Analysis and Design	3		
ME 212 Engineering Dynamics	3		
<b>Senior Project</b>	4		
ARCE 415 Interdisciplinary Capstone Project			

ME 302 Thermodynamics I	3
ME 341 Fluid Mechanics I	3
PHYS 141 General Physics IA (Add'l Area B) <sup>1</sup>	4
PHYS 132 General Physics II	4
PHYS 133 General Physics III	4
STAT 312 or STAT 321 (B6) <sup>1</sup>	4

**GENERAL EDUCATION (GE) 44**

72 units required, 28 of which are specified in Support

Minimum of 8 units required at the 300 level.

**Area A Communication 12**

A1 Expository Writing	4
A2 Oral Communication	4
A3 Reasoning, Argumentation & Writing	4

**Area B Science and Mathematics 4**

B1 Math/Statistics (8 units in Support) <sup>1</sup>	
B2 Life Science	4
B3 Physical Science (4 units in Support) <sup>1</sup>	
B4 One lab taken with either a B2 or B3 course	
B6 Upper-division Area B (4 units in Support) <sup>1</sup>	
Additional Area B Units (8 units in Support) <sup>1</sup>	

**Area C Arts and Humanities 12**

C1 Literature	4
C2 Philosophy	4
C3 Fine/Performing Arts (4 units in Support) <sup>1</sup>	
C4 Upper-division 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 0**

**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

**SUPPORT COURSES (81)**

ARCH 131 Design and Visual Communication 1.1	4
ARCH 132 Design and Visual Communication 1.2	4
ARCH 133 Design and Visual Communication 1.3	4
ARCH 217/218/219/ARCE 260 (C3) <sup>1</sup>	4
BRAE 237 Intro Engineering Surveying	2
CHEM 124 Gen Chem for Phy Sci & Engr I (B3/B4) <sup>1</sup>	4
CM 115 Fundamentals of Construction Mgmt	6
CM 232 or IME 314	3
CSC 231 Programming for Engr Students	2
EE 201 Electric Circuit Theory	3
GEOG 201 Physical Geology	3
MATH 141 Calculus I (B1) <sup>1</sup>	4
MATH 142 Calculus II (B1) <sup>1</sup>	4
MATH 143 Calculus III (Add'l Area B) <sup>1</sup>	4
MATH 241 Calculus IV	4
MATH 244 Linear Analysis I	4

<sup>1</sup> Required in Support; also satisfies GE