

**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

Note: No major or support courses may be taken 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.

MAJOR COURSES (75)	Units
ARCE 211 Structures I	3
ARCE 212 Structures II	3
ARCE 223 Mechanics of Structural Members	3
ARCE 224 Mechanics of Structural Members Lab	1
ARCE 225 Dynamics or ME 212 Engineering Dynamics	3
ARCE 227 Structures III	2
ARCE 257 Structural CAD for Building Design	2
ARCE 302 Structural Analysis	4
ARCE 303 Steel Design I	3
ARCE 304 Timber Design	3
ARCE 305 Masonry Design	2
ARCE 306 Matrix Analysis of Structures	3
ARCE 351 Structural Computing Analysis I	1
ARCE 352 Structural Computing Analysis II	1
ARCE 353 Structural Computing Analysis III	1
ARCE 354 Numerical Analysis Laboratory	1
ARCE 371 Structural Systems Lab	3
ARCE 372 Steel Structures Design Lab	3
ARCE 412 Dynamics of Framed Structures	3
ARCE 421 Soil Mechanics	3
ARCE 422 Foundation Design	3
ARCE 444 Reinforced Concrete Lab	3
ARCE 451 Timber/Masonry Design Lab	3
ARCE 452 Concrete Structures Design and Constructability Lab	3
ARCE 483 Seismic Analysis & Design	4
Advanced structural electives Select from: ARCE 403, 410, 414, 423,445, 446, 447, 448, 449, 471	6
Interdisciplinary senior project Select from: ARCE 415 (5) or 453 (3) and 460 (2)	5

**SUPPORT COURSES (85)**

ARCH 106 Materials of Construction	2
ARCH 131 Design & Visual Communication 1.1	4
ARCH 132 Design & Visual Communication 1.2	4
ARCH 133 Design & Visual Communication 1.3	4
ARCH 217/ARCH 218/ARCH 219 (C3)*	4
BRAE 237 Intro to Engineering Surveying	2
CHEM 124 General Chem/Engr Disciplines (B3/B4)*	4
CM 115 Fundamentals of Construction Mgmt	6
CM 332 Evaluation of Cost Alternatives or IME 314 Engineering Economics	3
CSC 231 (2) or CSC 234 C and UNIX (3)	2/3
EDES 101 Intro to Architecture and Environmental Design	2
EE 201 Electrical Circuit Theory	3
GEOL 201 Physical Geology	3
MATH 141 Calculus I (B1)*	4
MATH 142 Calculus II (B1)*	4
MATH 143 Calculus III (Add'l Area B)*	4
MATH 241 Calculus IV	4
MATH 244 Linear Analysis I	4

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

**GENERAL EDUCATION (GE) 44**

72 units required, 28 of which are listed in Support.  
→Minimum of 8 units required at the 300 level.

**Area A Communication 12**

A1 ENGL 133/134	4
A2 COMS 101/102	4
A3 Reason, Argumentation, & Writing	4

**Area B Science and Mathematics 4**

B1 Mathematics/Statistics *8 units in Support	
B2 Life Science	4
B3 Physical Science *4 units in Support	
B4 One lab taken with either a B2 or B3 course	
B5 (not required for Engineering students)	
B6 Upper-division Area B *4 units in Support	
Additional Area B units *8 units in Support	

**Area C Arts and Humanities 12**

C1 Literature	4
C2 Philosophy: PHIL 230/231	4
C3 Fine/Performing Arts *4 units in Support	
C4 Upper-division elective	4

**Area D/E Society and the Individual 16**

D1 American Experience (40404)	4
D2 Political Economy	4
D3 Comp Social Institutions	4
D4 Self Develop (CSU Area E)	4
Additional GE Units Required	

**FREE ELECTIVES 0**

**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