

**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.**

<b>MAJOR COURSES (86)</b>	<i>Units</i>
CE 113 Computer Aided Drafting	2
CE 204 Mechanics of Materials I	3
CE 207 Mechanics of Materials II	2
CE 251 Program App in Engineering	2
CE 336 Water Resources Engineering	4
CE 337 Hydraulics Laboratory	1
CE 381 Geotechnical Engineering	4
CE 434 Groundwater Hydraulics and Hydrology	4
CE 465 CE Professional Practice	1
ENVE 111 Intro to Env. Engr Profession	1
ENVE 264 Environmental Fluid Mechanics	4
ENVE 304 Process Thermodynamics	3
ENVE 309 Noise and Vibration Control	3
ENVE 325 Air Quality Engineering	4
ENVE 331 Intro to Environmental Engineering	4
ENVE 421 Mass Transfer Operations	4
ENVE 426 Air Quality Measurements	3
ENVE 434 Water Chem/ Quality Measurements	4
ENVE 438 Water/Wastewater Treat Design	3
ENVE 450 Industrial Pollution Prevention	4
ENVE 466 Senior Project Design Lab I	2
ENVE 467 Senior Project Design Lab II	2
Select from the following:	12
ENVE 411, 436, 439, 443, 455, 480	
Technical Electives <sup>1,2</sup> (In consultation with faculty advisor. See list and guidelines on reverse.)	10

**SUPPORT COURSES (64-65)**

CHEM 124 General Chemistry for Engr I (B3/B4) <sup>3</sup>	4
CHEM 125 General Chemistry for Engr II	4
CHEM 126 General Chemistry for Engr III	4
CHEM 312 Survey of Organic Chem (trans equiv CHEM 212)	5
ENGL 149 Technical Writing for Engineers (A3) <sup>3</sup>	4
MATH 141 Calculus I (B1) <sup>3</sup>	4
MATH 142 Calculus II (B1) <sup>3</sup>	4
MATH 143 Calculus III (Add'l Area B) <sup>3</sup>	4
MATH 241 Calculus IV	4
MATH 244 Linear Analysis I	4
MCRO 221 (B2) <sup>3</sup> or MCRO 224 (B2) <sup>3</sup>	4-5
ME 211 Engineering Statics	3
PHYS 141 General Physics IA (Add'l Area B) <sup>3</sup>	4
PHYS 132 General Physics II	4
PHYS 133 General Physics III	4
STAT 312 Statistical Methods for Engineers (B6) <sup>3</sup>	4

**GENERAL EDUCATION (GE)**

**40**

72 units required, 32 of which are in Major/Support

Refer to [current schedule](#) or <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 Expository Writing .....	4
A2 Oral Communication .....	4
A3 Reasoning, Argu & Writing (4 units in Support) <sup>3</sup>	

**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
C3 Fine/Performing Arts .....	4
C4 Upper-division elective <sup>4</sup> .....	4

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

**16**

D1 The American Exp (40404) .....	4
D2 Political Economy .....	4
D3 Comp Social Institutions .....	4
D4 Self Dev (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**

<sup>1</sup> To be selected in consultation with your academic advisor.

<sup>2</sup> A student may petition to take a course not included in the list of electives and receive major technical elective credit, but they must first obtain approval from a faculty advisor, before taking the course

<sup>3</sup> Required in Support; also satisfies GE.

<sup>4</sup> PHIL 340 or ES/NR 360 recommended.

## TECHNICAL ELECTIVES

Technical Electives may be chosen from any 300-500 level CE/ENVE courses not taken to satisfy other curriculum requirements, with the following exceptions: senior project, co-op, graduate seminar, comprehensive exam, and thesis; and ENVE 324, 323, 570, 571

Technical Electives cannot be used to satisfy other major, support, or general education requirements. No double counting is allowed.

No more than 4 units in total from CE/ENVE 400, 500, ENVE 405, 407, and 471 combined can be counted towards technical electives.

No more than 4 units of coursework other than CE/ENVE may be used to satisfy the ENVE Engineering technical elective degree requirement.

### Air Quality and Climate:

ERSC/GEOG 414; PHYS 313

### Appropriate Technology:

PSC/UNIV 492

### Biology/Biochemistry/Microbiology:

BIO 401; ENGR/ENVE 581; MCRO 342; MSCI 307

### Computer Applications and Computations:

LA/NR 317; STAT 313, 323

### Chemistry:

CHEM 313, 341, 350

### Energy:

BRAE 448; PHYS 310

### Hydrology and Soils:

BRAE 532

### Law and Policy:

CRP/NR 404, 408; IME 314