NOTE: This document can be used as a compact display of courses and other curricular requirements at the time of publication of the 2019-2020 catalog. The Degree Progress Report must be used to track students' progress in all degree requirements, throughout their Cal Poly

Note: No major or support courses may be selected as cr	edit/no cred
MAJOR COURSES (86)	Units
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 Fundamentals of Environmental Engr	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 ^{1,2} (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) ³	4
CHEM 125 General Chemistry for Engr II	4
CHEM 126 General Chemistry for Engr III	4
CHEM 312 Srvy Org Chem (trans equiv CHEM 212)	5
ENGL 149 Technical Writing for Engineers (A3) ³	4
MATH 141 Calculus I (B1) ³	4
MATH 142 Calculus II (B1) ³	4
MATH 143 Calculus III (Add'l Area B) ³	4
MATH 241 Calculus IV	4
MATH 244 Linear Analysis I	4
MCRO 221 (B2) ³ or MCRO 224 (B2) ³	4-5
ME 211 Engineering Statics	3
PHYS 141 General Physics IA (Add'l Area B) ³	4
PHYS 132 General Physics II	4
PHYS 133 General Physics III	4
STAT 312 Statistical Methods for Engineers (B6) ³	4

GENERAL EDUCATION (GE)	40
72 units required, 32 of which are specified in Major/Support	=
Refer to <u>current schedule</u> or <u>http://www.ge.calpoly.edu</u> to choose GE courses. You will <u>not</u> 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) ³	
Area B Math, Science, & Quantitative Reasoning	
28 units are listed in Support ³	
Area C Arts and Humanities	16
C1 Literature	. 4
C2 Philosophy	4
C3 Fine/Performing Arts	
C4 Upper-division elective ⁴	4
Area D Society and the Individual	12
D1 The American Exp (40404)	.4
D2 Political Economy	
D3 Comp Social Institutions	. 4
Area E Lifelong Learning and Self-Development	4
(formerly Area D4)	

¹ To be selected in consultation with your academic advisor.

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

² 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

³ Required in Support; also satisfies GE.

⁴ PHIL 340 or ES/NR 360 recommended.

TECHNICAL ELECTIVES

Technical Eletives 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.

- 1) No more than 4 units in total from CE/ENVE 400, 500, ENVE 405, 407, and 471 combined can be counted towards technical electives.
- 2) 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 363; ENGR/ENVE 581; MCRO 342; MSCI 307

Computer Applications and Computations:

LA/NR 317; STAT 313, 323

Chemistry:

Chem 313, 341

Energy:

BRAE 448; PHYS 310

Hydrology and Soils:

BRAE 532

Law and Policy:

CRP/NR 404, 408; IME 314 or IME 315