BS ENVIRONMENTAL ENGINEERING

2020-2021 *updated 10.23.20* **Units Required 190-191**

NAME _____
STUDENT ID _____
MINOR_____

Cal Poly, Higher Ed, and Major GPA at least 2.00	[ ] YES [ ] NO
US Cultural Pluralism Met	[ ] YES [ ] NO
60 Units Upper Division Met Taken/Remaining	[ ] YES [ ] NO
GWR Met	[ ] YES [ ] NO
Upper Div GE Met Taken/Remaining	[ ] YES [ ] NO
Free Electives Met	[ ] YES [ ] NO
C- or higher in A1, A2, A3, and B4	[ ] YES [ ] NO
Residency Requirements Met	[ ] YES [ ] NO

NOTE: This is a snapshot of the curriculum as originally published in the catalog. The Degree Progress Report (DPR) reflects updates to the published catalog. The DPR will be used to award your degree and calculate your EAP.

Note: No major or support courses may be selected as credit/no credit.

MAJOR COURSES (86)	*Units*	*Grade*	*Grd Pts*
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: ENVE 411, 436, 439, 443, 455, 480	12		
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 (B1/B3) [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 (B4)[3]	4
MATH 142 Calculus II (B4)[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 (UD-B)[3]	4

GENERAL EDUCATION (GE) **40**

72 units required, *32 of which are specified 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 English Language Comm and Critical Thinking	**8**
A1 Oral Communication	4
A2 Written Communication	4
A3 Critical Thinking (*4 units in Support*)[3]	
Area B Scientific Inquiry & Quantitative Reasoning	
28 units are listed in Support[3]	
Area C Arts and Humanities	**16**
Lower-division courses in Area C must come from three different prefixes	
C1 Arts[4]	4
C2 Humanities[4]	4
Lower-Division C Elective: C1 or C2[4]	4
Upper-Division C[5]	4
Area D Social Sciences	**12**
D1 American Institutions (Title 5, Sec. 40404)	4
D2 Lower-Division D	4
Area D Elective: *Select either an additional lower-division D2 or an upper-division D course*	4
Area E Lifelong Learning and Self-Development	**4**
Lower-Division E	4

FREE ELECTIVES **0**

[1] To be selected in consultation with your academic advisor.
[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] C1, C2, and C elective must come from three different subject prefixes.
[5] 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

The courses selected to satisfy this requirement may not be used to satisfy other major or support requirements (no double counting of coursework).

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