

2009-11 Cal Poly Catalog**Civil & Environmental Engineering Department****Flowchart****BS ENVIRONMENTAL ENGINEERING**

- ☐ 60 units upper division ☐ GWR
☐ 2.0 GPA ☐ USCP

* = Required in Support; also satisfies GE

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

MAJOR COURSES

CE 113 Computer-Aided Drafting in Civ Engr.....	2
CE 201 or CE 204, 207 Mechanics of Materials ...	6
CE 336 Water Resources Engineering	4
CE 337 Hydraulics Laboratory	1
CE 381 Geotechnical Engineering	4
CE 434 Groundwater Hydraulics and Hydrology ...	4
ENVE 111 Intro to Env. Engineering Profession ...	1
ENVE 264 Environmental Fluid Mechanics	4
ENVE 304 Thermodynamics of Processes	3
ENVE 309 Noise and Vibration Control.....	3
ENVE 325 Environmental Air Quality	4
ENVE 331 Intro to Environmental Engineering	4
ENVE 411 Air Pollution Control.....	3
ENVE 421 Mass Transfer Operations.....	4
ENVE 426 Air Quality Measurements.....	3
ENVE 434 Water Chemistry and Water Quality Measurements.....	4
ENVE 436 Intro Hazardous Waste Management....	4
ENVE 438 Water & Wastewater Treatment Design	3
ENVE 439 Solid Waste Management	3
ENVE 450 Industrial Pollution Prevention.....	4
ENVE 455 Environmental Health and Safety.....	4
ENVE 466, 467 Senior Project Design Lab.....	2,2
^{1,2} Advisor approved technical electives	11
	87

SUPPORT COURSES

³ CHEM 127 General Chemistry I (B3/B4)*	4
CHEM 128 General Chemistry II	4
CHEM 129 General Chemistry III	4
CHEM 312 Surv Org Chem	5
(trans equiv CHEM 212)	
CSC 231 Programming for Engineering Students ...	2
ENGL 149 Technical Writing for Engineers (A3)*	4
MATH 141, 142 Calculus I, II (B1)*	4,4
MATH 143 Calculus III (Add'l Area B)*	4
MATH 241 Calculus IV	4
MATH 244 Linear Analysis I.....	4
MCRO 221 Microbiology (B2)* or MCRO 224 General Microbiology I (4/7/09).....	4
ME 211 Engineering Statics.....	3
ME 302 Thermodynamics I.....	3
PHYS 141 General Physics IA (Add'l Area B)* ...	4
PHYS 132, 133 General Physics II, III	4,4
STAT 312 Statistical Methods for Engineers (B6)*	4
	69

GENERAL EDUCATION (GE)

72 units required, 32 of which are specified in Support.

→See page 50 for complete GE course listing.

→Minimum of 8 units required at the 300 level.

Area A Communication (8 units)

A1 Expository Writing	4
A2 Oral Communication	4
A3 Reasoning, Argumentation, and Writing * 4 units in Support	0

Area B Science and Mathematics (no add'l units required)

B1 Mathematics/Statistics * 8 in Support	0
B2 Life Science * 4 units in Support	0
B3 Physical Science * 4 in Support	0
B4 One lab taken with either a B2 or B3 course B5 (requirement for Liberal Arts students only)	
B6 Upper-division Area B * 4 in Support.....	0
Additional Area B units* 8 in Support.....	0

Area C Arts and Humanities (16 units)

C1 Literature	4
C2 Philosophy	4
C3 Fine/Performing Arts	4
C4 Upper-division elective (PHIL 340 or NR 360 recommended).....	4

Area D/E Society and the Individual (16 units)

D1 The American Experience (40404)	4
D2 Political Economy	4
D3 Comparative Social Institutions	4
D4 Self Development (CSU Area E)	4

FREE ELECTIVES

40
0
196

¹ To be selected in accordance with the A.B.E.T. 24-unit and Culminating Engineering Design requirement, in consultation with your academic advisor.

² No more than 4 units of ENVE 400 or CE 400 can be counted towards technical electives.

³ CHEM 124, 125 substitute for CHEM 127, 128.