BS ENVIRONMENTAL ENGINEERING

☑ 60 units upper division ☑ GWR
☑ 2.0 GPA ☑ USC
* = 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 Remediation ....................... 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

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

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, 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 ............................................. 0

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.