MAJOR COURSES

- CHEM 127 General Chemistry I (B3/B4)∗
- CE 201
- STAT 312 Statistical Methods for Engineers (B6)∗
- PHYS 141 General Physics IA (Add'l Area B)∗
- MATH 241 Calculus IV
- MATH 143 Calculus III  (Add'l Area B)∗
- CHEM 128 General Chemistry II
- ENVE 466, 467 Senior Project Design Lab
- ENVE 455 Environmental Health and Safety
- ENVE 450 Industrial Pollution Prevention
- ENVE 438 Water & Wastewater Treatment Design
- ENVE 434
- ENVE 426 Air Quality Measurements
- ENVE 421 Mass Transfer Operations
- ENVE 411 Air Pollution Control
- ENVE 309 Noise and Vibration Control
- CE 400 / ENVE 400 and CE 500/ENVE 500 require an engineering design requirement, in consultation with your academic advisor.
- Technical electives .................................................. 11

SUPPORT COURSES

- CHEM 127 General Chemistry I (B3/B4)∗ .................. 4
- CHEM 128 General Chemistry II ......................... 4
- CHEM 129 General Chemistry III ...................... 4
- CHEM 312 Survey of Organic Chemistry ...... 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
- 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 39 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 (not required for Engineering students)
- 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

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Technical Electives

Technical Electives may be chosen from all non-required 300-500 level CE/ENVE courses with the following exceptions: senior project, co-op, graduate seminar, comprehensive exam, and thesis; and ENVE 324, ENVE 330, ENVE 570, ENVE 571. Technical Electives cannot be used to satisfy other major, support, or general education requirements. No double counting is allowed.

Air Quality and Climate

ERSC/GEOG 415, 415; ME 359; PHYS 313

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 CE 500/ENVE 500, CE 400/ENVE 400, and ENVE 407 and ENVE 471 combined can be counted towards technical electives. Note: CE 400/ENVE 400 and CE 500/ENVE 500 require an individual course substitution form. (7/2/15)(10/15/15)

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

4 An additional 3 units of technical electives may substitute. (1/6/14)

5 No more than 4 units of coursework other than CE/ENVE may be used to satisfy the ENVE Engineering technical elective degree requirement. (7/2/15)

6 If CE 207 is taken for 2 units then one additional unit of Technical Electives is required. (1/8/16)
Appropriate Technology
PSC/UNIV 491, 492

Biology/Biochemistry/Microbiology
BIO 401; ENGR/ENVE 581, MCRO 342, 436, MSCI 307, 328; SS 422

Computer Applications and Computations
GEOG/NR 317; STAT 313, 323

Chemistry
CHEM 313, 341, 340, 350; SS 423

Energy
BRAE 448; ECON 432; ME 350, 359, 415; PHYS 310

Hydrology and Soils
BRAE 532; ECON 435; SS 432, 442

Law and Policy
CM 334; CRP 342, CRP/NR 404; CRP/NR 408; ECON 431; IME 314; NR 416

(7/2/15)