**Environmental Focus Area: Environmental**

Department of Civil and Environmental Engineering

### General Education (19 sh)

- **All RHET:1030 Rhetoric**
- **3 F/S Diversity & Inclusion**
- **3 All Be Creative**
- **3 All Approved Gen Ed Course**
- **3 All Approved Gen Ed Course**
- **3 All Approved Gen Ed Course**

### Math & Basic Science Core (24 sh)

- **Math:1550 Math I: Single Variable Calculus (P: ALEKS score ≥ 75 or MPT Level 3 score ≥ 9)**
- **4 F/S Math:1560 Math II: Multivariable Calculus (P: Math:1550)**
- **3 All Phys:1611 Introductory Physics I / Lab (P: Math:1550)**
- **4 All Chem:1110 Principles of Chemistry I (P: ALEKS score ≥ 55 or MPT Level 3 score ≥ 9)**
- **4 S Phys:1611 Introductory Physics I / Lab (P: Math:1550)**
- **4 S Select 3 courses from the list below Any 3000 level or above course(s) in CEE**

### Engineering Core (7 sh)

- **F Engr:1000 Engineering Success for First-Year Students (First semester standing)**
- **1 F Engr:1100 Intro to Engineering Problem Solving**
- **3 F/S Engr:1300 Intro to Engineering Computing (P: Math:1550)**

### EnvE Requirements (58 sh)

- **All Biol:1411 Foundations of Biology (P: Chem:1110)**
- **4 All Chem:1120 Principles of Chemistry II (P: Chem:1110 with a minimum grade of C)**
- **4 All Chem:2210 Organic Chemistry I (no lab required)**
- **3 All Engr:2110 Statics (P: Math:1550; C: Math:1560 & Phys:1611)**
- **2 All Engr:2100 Thermodynamics (P: Chem:1110 & Phys:1611; C: Math:1550)**
- **4 All Engr:2710 Dynamics (P: Engr:2110 & Math:1550)**
- **3 All Engr:2720 Materials Science (P: Chem:1110; C: Math:1550)**
- **3 All CEE:1030 Intro to Earth Science (no lab required)**
- **3 S CEE:3155 Principles of Environmental Engineering (with Lab) (P: Chem:1110)**
- **4 S CEE:3373 Principles of Hydraulics and Hydrology (P: Engr:2350)**
- **3 S CEE:3430 Water Treatment (with Lab) (P: Engr:2510 & CEE:3155)**
- **4 F CEE:4012 Groundwater**
- **3 F CEE:4150 Environmental Chemistry (P: Chem:1120)**
- **3 F CEE:4157 Environmental Engineering Design (P: CEE:3155)**
- **3 F CEE:4158 Solid and Hazardous Wastes**
- **3 S CEE:4159 Air Pollution Control Technology**
- **3 F CEE:4374 Water Resources Design (P: CEE:3371)**

### CEE Capstone Design Courses (3 sh)

- **F/S CEE:4850 Project Design & Management in CEE (P: final semester; C: CEE:3003)**

### CEE Professional Skills (4 sh)

- **S CEE:1010 Introduction to Careers in Env. Engineering**
- **0 S CEE:2010 Professional Practice and Ethics**
- **1 F CEE:3001 Leadership Skills for Engineers (junior standing)**
- **1 S CEE:3002 Technical Communication in CEE (sophomore standing)**
- **1 F CEE:3003 Project Management Skills (sophomore standing)**

### Required: Environmental (0 sh)

- **None required**

### Electives: Environmental (15 sh)

- **Select 2 courses from the list below**
  - **All CEE:4107 Sustainable Systems**
  - **3 F CEE:4119 Hydrology (P: Engr:2510)**
  - **3 S CEE:4371 Water Resources Engineering (C: CEE:3371)**

### Electives: Focus Area, Minor, Certificate, etc. (sh)

- **Select 3 courses from the list below**
  - **All CEE:4102 Groundwater**
  - **3 F CEE:4150 Environmental Chemistry (P: Chem:1120)**
  - **3 F CEE:4157 Environmental Engineering Design (P: CEE:3155)**
  - **3 F CEE:4158 Solid and Hazardous Wastes**
  - **3 S CEE:4159 Air Pollution Control Technology**
  - **3 F CEE:4374 Water Resources Design (P: CEE:3371)**

### Total Semester Hours Requirements: 130