Environmental Systems Engineering
Typical Sequence of Courses

**Freshman/ Sophomore**

- **Freshwater**
  - or
  - MATH 41(A) + 42(W)

- **Coastal**
  - MATH 51 or CME100
  - 3rd ENGR FUND (or can count CEE70 or 146A)

- **Urban**
  - CEE 174A(A) or 166A(A)

**Sophomore / Junior**

- **Freshwater**
  - CHEM 31A+31B (A+W)
  - CEE 177 (A)
  - CEE174A(A) or 166A(A)
  - Choose 6-7 Freshwater Focus Area Electives (17-20 units)
  - MATH 51 or CME100

- **Coastal**
  - CHEM 31A+31B (A+W)
  - CEE 162D (W)
  - CEE175A(S) or 162(A+W)
  - Choose 6-7 Coastal Focus Area Electives (16-21 units)

- **Urban**
  - CEE 177 (A)
  - CEE174A(S) or 166A(A)
  - Choose 6-7 Urban Focus Area Electives (17-20 units)

**Senior**

- **Freshwater**
  - CEE 70 (W)
  - CHEM 31A+31B (A+W)
  - Choose 6-7 Freshwater Focus Area Electives (17-20 units)

- **Coastal**
  - CEE 70 (W)
  - CHEM 31A+31B (A+W)
  - Choose 6-7 Coastal Focus Area Electives (16-21 units)

- **Urban**
  - CEE 176A (W)
  - Choose 6-7 Urban Focus Area Electives (17-20 units)

**Fresh/Soph Accessible Classes to Try-out the Major:**

- **Freshwater:** ChemEng60Q(A), CEE29N(W), CEE70(W), CEE166D(W), GS43Q(W), UrbanSt163(S)
- **Coastal:** CEE70(W), EarthSys46N(S), ESS 8(S)
- **Urban:** CEE125(A), AA116Q(A), EarthSys46Q(W), CEE48N(W), CEE 6(S), UrbanSt163(S)

**Technology in Society elective**


**or**

**MATH 41(A) + 42(W)**

**Choose 6-7**

**Freshwater Focus Area Electives**

**Coastal Focus Area Electives**

**Urban Focus Area Electives**

**3rd ENGR FUND**

**(or can count CEE70 or 146A)**

**CEE101B (A)**

**CEE 1: Intro. to Envir. Systems Engrg. (S)**

**CEE 100 (A)**

**CHEM 31A+31B (A+W)**

**OR**

**PHYS 41 (A,W,S)**

**ENGR 14 (A,W,S)**

**1 Sci./Math elective**

**CS106A (A,W,S)**

**Technology in Society elective**

**3 Tools/Skills electives (8 units):**

- 1 Visual, 1 Oral/Written, and 1 Modeling/Analysis

**PHYS 43 (S)**

**Science/Math elective**

**CEE 101B (A)**

**CEE 146A(W) (can be 3rd Eng.Fund)**

**CEE 176A (W)**

**CEE100 (A)**

**CHEM 31A+31B (A+W)**

**PHYS 43 (S)**

**Science/Math elective**

**CEE 146A(W) (can be 3rd Eng.Fund)**

**CEE 176A (W)**

**Choose 1 Capstone Course from List for your Focus Area**

* Arrows represent direct prerequisites