# Suggested Course Plan for a UC Riverside Major in Environmental Engineering

- **Fall Quarter**
  - CEE 010: 2 units
    - Intro to Chem. & Envr. Engineering
  - CHEM 001A & CHEM 01LA: 5 units
    - General Chemistry & Lab
  - ENGL 001A: 4 units
    - Beginning Composition
  - MATH 009A: 4 units
    - First Year Calculus

- **Winter Quarter**
  - CHEM 001B & CHEM 01LB: 5 units
    - General Chemistry & Lab
  - CHEM 001C & CHEM 01LC: 5 units
    - Applied Intermediate Composition
  - MATH 009B: 4 units
    - First Year Calculus
  - PHYS 040A: 4 units
    - Physics (Mechanics)

- **Spring Quarter**
  - CHEM 001A & CHEM 01LA: 5 units
    - General Chemistry & Lab
  - ENGL 001B: 4 units
    - Intermediate Composition
  - MATH 009A: 4 units
    - First Year Calculus
  - PHYS 040A: 5 units
    - Physics (Heat/Waves/Sound)

- **Second Year**
  - CHEM 112A: 4 units
    - Organic Chemistry
  - CHEM 112B: 4 units
    - Engineering Thermodynamics
  - MATH 010A: 4 units
    - Multivariable Calculus
  - ENVE/CHE 130: 4 units
    - Fundamentals of Environmental Engr.

- **Third Year**
  - BIOL 005A & BIOL 05LA: 5 units
    - Cell & Molecular Biology & Lab
  - CHE 114: 4 units
    - Applied Fluid Mechanics
  - ENGR 118: 4 units
    - Engineering Modeling & Analysis
  - ENVE 142: 4 units
    - Fund. of Air Pollution Engineering

- **Fourth Year**
  - ENSC/SWSC 100: 4 units
    - Intro to Soil Science
  - ENVE 120: 4 units
    - Unit Operations and Processes
  - ENVE 160B: 3 units
    - Environmental Engineering Lab
  - Technical Elective*: 4 units

---

**Course Plan is subject to change.**
Environmental Engineering-Technical Electives

You must select one option below and complete 3 courses (at least 12 units) from that option. Units are listed in (). Select from the list below:

**Air Pollution Control Technology Option:**
*CHE 116  Heat Transfer (4)
*ENVE 134  Technology of Air Pollution Control (4)

*Choose one from:
  CEE 125  Analytical Methods for Chemical and Environmental Engineers (4)
  CEE 132  Green Engineering (4)
  CHE 102**  Catalytic Reaction Engineering (4)
  ENSC/ENTX/CHEM 135  Chemistry of the Clean and Polluted Atmosphere (4)
  ENVE 138  Combustion Engineering (4)
  ENVE/ENSC 144  Solid Waste Management (4)
  ENVE 145  Hazardous Waste Management (4)

**Water Pollution Control Technology Option:**
*Choose one from:
  CHE 124**  Biochemical Engineering Principles (4)
  ENVE 121  Biological Unit Processes (4)

*Choose one from:
  CEE 125  Analytical Methods for Chemical and Environmental Engineers (4)
  CHE 116  Heat Transfer (4)
  ENSC 136  Chemistry of Natural Waters (4)
  ENSC 163  Hydrology (4)

*Choose one from:
  CEE 132  Green Engineering (4)
  ENVE/ENSC 144  Solid Waste Management (4)
  ENVE 145  Hazardous Waste Management (4)

*Required for the option selected
**Course requires prerequisites not accounted for in curriculum. Please check with the undergraduate faculty advisor about the ability to take this course.