# Environmental Engineering

## First Year

### Fall Semester
- **GE A**
- **WRIT 150**
- **MATH 125 (GE F)**
- **CE 110**
- **ENGR 102**

### Spring Semester
- **GE B**
- **CHEM 105aL (GE E)**
- **MATH 126 or MATH 129**
- **PHYS 151L (GE E)**
- **CE 108**

## Second Year

### Fall Semester
- **CE 205**
- **CHEM 105bL**
- **MATH 226 or MATH 229**
- **PHYS 152L**
- **CE 210L**

### Spring Semester
- **GE C**
- **BISC 220L (GE D)**
- **MATH 245**
- **ENE 200**
- **OPTIONAL ELECTIVE**

## Third Year

### Fall Semester
- **CE 309**
- **CHEM 322L (GE M)**
- **CE 408**
- **CE 453**
- **ISE 460**

### Spring Semester
- **ENE 428**
- **CHEM 322aL (GE M)**
- **DESIGN KERNEL**
- **CE 451**
- **CE 463L**

## Fourth Year

### Fall Semester
- **GE B**
- **CHE 330**
- **CE 484**
- **DESIGN KERNEL**
- **PTF 463L**

### Spring Semester
- **GE C**
- **GEOL 305L**
- **CE 465**
- **ENE 426**
- **CE 485**

## Mathematics (13 Units)
- **MATH 105**: Calculus I
- **MATH 126** or **MATH 129**: Calculus II
- **MATH 226** or **MATH 229**: Calculus III
- **MATH 245**: Mathematics of Phys. and Engr.

## Physics (8 Units)
- **PHYS 151L**: Mechanics and Thermodynamics
- **PHYS 152L**: Electricity and Magnetism

## Chemistry (12 Units)
- **CHEM 105aL**: General Chemistry
- **CHEM 105bL**: General Chemistry
- **CHEM 222aL**: Organic Chemistry

## Other Science (8 Units)
- **BISC 220L**: Cell Biology and Physiology
- **GEOL 305L**: Intro to Engr. Geology

## General Education (32 Units)
- **GE A**: The Arts (1 Course)
- **GE B**: Humanistic Inquiry (2 Courses)
- **GE C**: Social Analysis (2 Courses)
- **GE D**: Life Sciences (1 Course)
- **GE E**: Physical Sciences (1 Course)
- **GE F**: Quantitative Reasoning (1 Course)
- **GE G,H**: Global Perspectives (2 Courses)*
- **GESM**: General Education Seminar (1 Course)*

## Writing (7 Units)
- **WRIT 150**: Writing and Critical Reasoning
- **WRIT 340**: Advanced Writing

## Engineering (62 Units)
- **CE 110**: Intro. to Environmental Engr.
- **CE 108**: Intro. to CE Computer Methods
- **CE 205**: Statics
- **CE 210L**: Intro. to Env. Engr. Microbiology
- **CE 309**: Fluid Mechanics
- **CE 408**: Risk Analysis in Civil Engr.
- **CE 451**: Water Resources Engineering
- **CE 453**: Water Quality Control
- **CE 463L**: Water Chemistry and Analysis
- **CE 484**: Water Treatment Design
- **CE 485**: Wastewater Treatment Design
- **CHE 330**: Chemical Engr. Thermodynamics
- **ENE 200**: Environmental Engr. Principles
- **ENE 428**: Particulate Air Pollutants: Properties/Behavior/Measurement
- **ENE 428**: Air Pollution Fundamentals
- **ENGR 102**: Engineering Freshman Academy
- **ISE 460**: Engineering Economy
- **PTF 463L**: Intro. to Transport Processes

## Design Kernel
- Choose from CE 443, 446, 478, or CHE 442.

## Special Notes
- Courses with this symbol may be satisfied with AP, IB or A-Level exams. See page 17 for more information.
- GE: Engineering students are encouraged to satisfy GE G and GE H with a course that also satisfies a Core Literacy. GE H may be satisfied by exam. Additionally, your GESM course should be taken in categories A, B, C, or D only. See pp. 16-17 for more information and consult your advisor for detailed assistance.
- **OPTIONAL ELECTIVES**: Consult with your academic advisor to explore optional elective courses. These courses are not required.
- **ENE 200, 426, 428, 466, and CE 309**: Minimum grade of “C” is required.

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