Environmental Engineering – Program Map – Catalog year 2019-20

First Year
- **MATH 021**: Calc for Sci & Engr
- **PHYS 008**: Intro Physics I
- **CHEM 002**: Intro to Chem I
- **SPARK Seminar**:

Second Year
- **MATH 022**: Calc II for Sci & ENGR
- **PHYS 009**: Intro Phys II
- **CHEM 010**: Intro to Chem II
- **Arts, and Humanities GE**:

Third Year
- **MATH 023**: Vector Calculus
- **ENGR 057**: Computing Course
- **WRI 010**: College Wri & Comp
- **ENGR 191**: Professional Sem.

Fourth Year
- **MATH 024**: Lin Algebra/Diff Equations
- **ENVE 020**: Intro to Environmental Science & Tech
- **MATH 032**: Probability & Stats
- **Science Course**: Choose 1 from: BIO 005 ESS 001 ESS 005

Fifth Year
- **ENVE 100**: Environmental Chemistry
- **Cross Roads Course**: Choose 1 from: BIO 005 ESS 001 ESS 005
- **ENGR 120**: Fluid Mechanics
- **Environmental Biology Course**:

Sixth Year
- **Engineering Fundamental**: Choose 1 – Biology course (ESS 105, 120, 124, 148, 149)
- **ENVE 160**: Sustainable Energy
- **Engineering Fundamental**: Choose 1 – Earth Science course (ESS 103, 105, 112, 170)
- **ENGR 155**: Engr Econ Analysis
- **Social Science GE**:

Seventh Year
- **ENVE 130**: Meteorology & Air Pollution
- **Engr 193**: Engineering Capstone Design I
- **ENVE 110**: Hydrology & Climate
- **Earth Systems Science Course**:
- **Technical Elective**:

Eighth Year
- **Technical Elective**:
- **ENVE 194**: Engineering Capstone Design II
- **ENVE 18X (F)**: Field Methods
- **Writing in the Discipline**:
- **Social Science, Arts, and Humanities GE**:

Notes:
- **Computing Course**: Complete either ME 021 or CSE 020 & CSE 021
- **ENGR Fundamentals-Minimum 18 units**
  - ENGR 057, 120, 155 required
  - The remaining 7 units may be chosen from: ENGR 045, 065, 130, 151 (Counts as Writing in Discipline), 180
- **ENVE Technical Electives – Minimum 15 units**
  - Choose 1 – Biology course (ESS 105, 120, 124, 148, 149)
  - Choose 1 – Earth Science course (ESS 103, 105, 112, 170)
  - Choose 1 – Environmental Engineering Field Method (ENVE 181, 182, 183, 184)

This guide in an unofficial document intended to be used for advising/course planning only. This document cannot be used to supersede or waive requirements listed in the UCM Catalog or updates to co/prerequisites unless approved by your advisor.