**UC Merced Campus Requirements**

- **CORE 001 (4)**
  - The World at Home I
- **WRI 010 (4)**
  - College Reading & Composition

**Engineering Major Preparation**

- **CHEM 002 (4)**
  - General Chemistry
- **PHYS 009 (4)**
  - Physics II
- **MATH 022 (4)**
  - Calculus II
- **MATH 023 (4)**
  - Vector Calculus
- **MATH 024 (4)**
  - Linear Algebra & Diff. Equations

**Environmental Engineering Core**

- **ENVE 020 (4)**
  - Intro to Environmental Sci & Tech
- **ENVE 100 (4)**
  - Environmental Chemistry
- **ENVE 110 (4)**
  - Hydrology & Climate
- **ENVE 130 (4)**
  - Meteorology & Air Pollution
- **ENVE 160 (4)**
  - Sustainable Energy

**General Education Requirements**

- **MATH 021 (4)**
  - Calculus I
- **PHYS 008 (4)**
  - Physics I
- **MATH 032 (4)**
  - Statistics
- **BIO 001 (4)**
  - Contemporary Biology
- **CSE 020 (2)**
  - Intro to Computing I
- **CSE 021 (2)**
  - Intro to Computing II
- **Arts/Humanities GE (4)**
- **Social Science GE (4)**
- **ENGR 097/197 (3)**
  - Or SSHA GE
- **ENGR 197 (3)**
  - Or upper division SSHA GE

**Engineering Fundamentals**

- **ENGR 155 (3)**
  - Engineering Economic Analysis
  - #At least Junior Standing
- **ENGR 045 (4)**
  - Intro to Materials
- **ENGR 057 (4)**
  - Dynamics
- **ENGR 065 (4)**
  - Circuit Theory
- **ENGR 120 (4)**
  - Fluid Mechanics
- **ENGR 130 (3)**
  - Thermodynamics
- **ENGR 151 (4)**
  - Strength of Materials
- **ENGR 180 (4)**
  - Spatial Analysis

**Professional Seminar**

- **ENGR 191 (1)**
  - Professional Seminar
  - #Taken in student’s last semester

**Additional Requirement**

- **CHEM 010 (4)**
  - General Chemistry II

Students in the Environmental Engineering program are also required to take a minimum of 14 units of Technical Electives. For choices of Technical Electives please see the reverse side of this worksheet.

# = Class restriction
Environmental Engineering Technical Electives

**Students must choose at least 14 units of Technical Electives. One course must contain a Field (F) component. A maximum of 4 Service Learning and/or Undergraduate Research may be used.**

*Service learning units counted as technical electives may not be counted as GE*

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**Water Quality Emphasis Suggestions**
- ENVE 105 (3) Environmental Data Analysis
- ENVE 121 (4) Environmental Microbiology
- ENVE 155 (4) Decision Analysis in Management
- ENVE 171 (3) Environmental Organic Chemistry
- ENVE 182 (F) Field Methods in Surface Hydrology
- ENVE 184 (F) Field Methods in Environmental Chemistry

**Hydrology Emphasis Suggestions**
- ENVE 105 (3) Environmental Data Analysis
- ENVE 112 (4) Subsurface Hydrology
- ENVE 114 (4) Mountain Hydrology of the Western States
- ENVE 155 (4) Decision Analysis in Management
- ENVE 176 (3) Water & Wastewater Treatment
- ENVE 181 (F) Field Methods in Snow Hydrology
- ENVE 182 (F) Field Methods in Surface Hydrology
- ESS 105 (3) Watershed Biogeochemistry

**Air Pollution & Sustainable Energy Emphasis Suggestions**
- ENVE 116 (3) Applied Climatology
- ENVE 132 (3) Air Pollution Control
- ENVE 152 (4) Remote Sensing of the Environment
- ENVE 155 (4) Decision Analysis in Management
- ENVE 162 (3) Modeling & Design of Energy Systems
- ENGR 135 (4) Heat Transfer