

## MS Environmental Engineering – for students who started prior to fall 2019

The Master's of Science in Environmental Engineering (MSENE) Program requires students complete 27 units (9 courses). These must include the 3 CORE courses, 4 courses from either the Air or Water concentration (below), and 2 electives.

### Core Courses

- **ENE 512:** Environmental Fluid Mechanics
- **ENE 505:** Energy and the Environment
- **CE 505:** Data Management

Choose either Air or Water concentration (4 courses)

<b>Air Track</b>	<b>Water Track</b>
<b>ENE 426:</b> Particulate Air Pollutants: Properties/Behavior/ Measurement	<b>ENE 599 (ENE 562):</b> Aquatic Chemistry Taught by Prof. McCurry
<b>ENE 527:</b> Climate Change and Atmospheric Aerosols	<b>CE 523:</b> Physicochemical Processes in Environmental Engineering
<b>ENE 535:</b> Air Pollution Management: Exposure, Health Effects and Risk	<b>CE 553:</b> Biological Processes in Environmental Engineering
Pick one: <b>CE 523*</b> , <b>CE 553*</b> , <b>CE 516</b>	Pick one: <b>ENE 426</b> , <b>ENE 527</b> , or <b>ENE 535</b>
*Note: CE 453: Water Quality Control, or equivalent, is a prerequisite for CE 463L, CE 523 and CE 553.	Note: CE 453: Water Quality Control is considered a pre-requisite for the Water Concentration; if not taken prior to coming to USC, it must be taken in the first year and is not counted toward the degree.
Note: Air Concentration students must take ENE 428: Air Pollution Fundamentals in lieu of one of the electives if they have not already taken the course, or its equivalent, as an undergraduate.	



## **Electives**

Beyond the required courses (above) the rest of your course work should be selected from the pre-approved electives to reach the minimum of 28 units to complete this degree.

**CE 451:** Water Resources Engineering (Spring only)

**CE 484:** Water Treatment Design (Fall only)

**CE 485:** Wastewater Treatment Design (Spring only)

**CE 503:** Microbiology for Environmental Engineers (Spring only)

**CE 516:** Geohydrology (Fall only)

**CE 599:** Complex Systems Safety and Resiliency

**ENE 502:** Environmental and Regulatory Compliance (Spring only)

**ENE 510:** Water Quality Management and Practice (Spring only)

**NOTE: At least 2/3 of the units applied to the degree must be at the 500-level or above.**

Other courses may be selected for elective credit only after consultation and pre-approval from CEE Student Services (ceedept@usc.edu)

\*CE 520a duplicates credit for CE 520

