ENVIRONMENTAL ENGINEERING, MINOR

Requirements for a minor may be completed at any campus location offering the specified courses for the minor. Students may not change from a campus that offers their major to a campus that does not offer their major for the purpose of completing a minor.

Program Requirements

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The minor consists of 18 credits, at least 6 of which must be at the 400 level.

Requirements for the Minor

2 credits of engineering design are included.

A grade of C or better is required for all courses in the minor, as specified by Senate Policy 59-10 (https://senate.psu.edu/policies-and-rules-for-undergraduate-students/59-00-minors-and-certificates/#59-10).

In addition, at least six credits of the minor must be unique from the prescribed courses required by a student’s major(s).

### Code | Title                                                                 | Credits |
---|---|---|
**Prescribed Courses:** Require a grade of C or better<br><br>Prescribed Courses:<br>CE 370 Introduction to Environmental Engineering | 3      |
**Pre-Requisite Courses:** <br>Chemistry and Biological Sciences<br>BE 308 Engineering Elements of Biochemistry and Microbiology<br>CE 479 Environmental Microbiology for Engineers<br>CHEM 202 Fundamentals of Organic Chemistry I<br>CHEM 210 Organic Chemistry I<br>Process Engineering<br>Select 0-3 credits of the following: | 0-3    |
BE 302 Heat and Mass Transfer in Biological Systems<br>CHE 210 Introduction to Material Balances<br>EGEE 302 Principles of Energy Engineering<br>MNPR 301 Elements of Mineral Processing<br>NUCE 430 Design Principles of Reactor Systems<br>Applied Fluid Mechanics<br>Select one of the following: | 3      |
AERSP 308 Mechanics of Fluids<br>BE 467 Design of Stormwater and Erosion Control Facilities<br>CE 371 Water and Wastewater Treatment<br>CE 462 Open Channel Hydraulics<br>CHE 330 Process Fluid Mechanics<br>EME 303 Fluid Mechanics in Energy and Mineral Engineering<br>ME 320 Fluid Flow<br>**Environmental Sciences and Design:** Select 6-9 credits of the following: | 6-9    |
METEO 454 Introduction to Micrometeorology<br>NUCE 431W Nuclear Reactor Core Design Synthesis<br>**Environmental Sciences and Design:** Select 6-9 credits of the following: | 6-9    |