

**The Ohio State University  
College of Engineering  
Approved by Colleges of the Arts and Sciences**

**Environmental Engineering Minor (Env Eng, 012)**

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Department of Civil and Environmental Engineering and  
Geodetic Science  
470 Hitchcock Hall, 2070 Neil Avenue  
Columbus, OH 43210  
614-292-2005  
<http://www-ceg.eng.ohio-state.edu/>

The purpose of the Environmental Engineering Minor is to allow students from a wide range of undergraduate majors to obtain an introductory background in pollution prevention, environmental modeling, and pollution control technologies most appropriate to their major field. Science majors will gain an understanding of engineering problem-solving methods and procedures, as well as standard pollution control technologies.

The minor in Environmental Engineering consists of 20 credit hours. Students can select from elective courses most appropriate to their major field.

**Required courses (10 credit hours)**

Civil En 511 Introduction to Environmental Engineering (3)  
Civil En 520 Design of Treatment Facilities (4)\*  
Civil En 610 Analysis of Natural and Polluted Waters (3)

\* prerequisites for CE 520 are Chem 122 or 125 and Math 152.

**Elective course work (10 credit hours)**

Civil En 618 Ecological Engineering and Science (4)  
Civil En 620 Treatment Plant Design Laboratory (2)  
Civil En 711 Biological Processes for Used Water Treatment (4)  
Civil En 714 Hazardous Waste Management (3)  
Civil En 717 Municipal and Industrial Solid Waste Management (4)  
Civil En 719 Water Quality Modeling (3)  
Civil En 771 Radioactive Waste Management (3)  
CHBE 771 Air Pollution (3)  
CHBE 772 Principles of Sustainable Engineering (3)

**Environmental Engineering minor program guidelines**

The following guidelines govern this minor.

Required for graduation No

Credit hours required A minimum of 20

Transfer credit hours allowed A maximum of 10

Overlap with the GEC Permitted

Overlap with the major

- The minor must be in a different subject than the major.
- Engineering students can count 10 credit hours from the minor as technical electives in their major program, if approved by the student's major program adviser.

Overlap between minors Each minor completed must contain 20 unique hours.

Grades required

- Engineering students can have a grade lower than C- in a course, as long as they maintain a minimum 2.00 overall CPHR for courses comprising this major.
- Course work graded Pass/Non-Pass cannot count on the minor.

Approval required The minor program description sheet indicates if the minor course work must be approved by:

- The academic unit offering the minor

Filing the minor program form The minor program form must be filed at least by the time the graduation application is submitted to a college/school counselor.

Changing the minor Once the minor program is filed in the college office, any changes must be approved by:

- The academic unit offering the minor