

**The Ohio State University  
College of Engineering  
Department of Civil, Environmental and Geodetic Engineering  
Environmental Engineering Minor (ENVENG-MN)**

The Department of Civil, Environmental and Geodetic Engineering 470 Hitchcock Hall, 2070 Neil Ave. Columbus, OH 43210 <http://ceg.osu.edu>

The Environmental Engineering minor will provide a wide range of undergraduate majors with an introductory foundation in sustainability, pollution prevention, environmental modeling, and pollution control technologies. By completing the minor in Environmental Engineering, students should add considerable knowledge to their major program skills and become more valuable to their future employer. Science majors will gain an understanding of engineering problem-solving methods and procedures, as well as standard pollution control technologies. Other engineering majors will become more aware of the environmental effects of technologies in their major field, and how to reduce these effects.

**Prerequisites for Environmental Engineering Minor**

*Must be completed prior to beginning the minor program:*

- Math 1151
- Chemistry 1220 General Chemistry II  
  or Chemistry 1250 Chemistry for Engineers

**Requirements for Environmental Engineering Minor:**

Credit hour requirement: minimum of 15 credit hours

Electives of Minor

Select 6 hours of coursework from the approved elective list below. Engineering students may double-count up to 6 (six) credit hours from the minor with the technical elective portion of their engineering degree program.

**Environmental Engineering Minor Program Guidelines**

Required for graduation: No

Credit hours required: A minimum of 15 credit hours is required to complete the Environmental Engineering minor.

Transfer credit hours allowed: No more than one half of the credit hours required for the minor can come from transfer credit.

Overlap with the major: 12 hrs in the minor program must be distinct from the major program.

Double-counting: Students in Civil Engineering are permitted to double-count up to **6 (six)** credit hours from the minor with the technical elective portion of their engineering degree program.

Grades required

- Minimum C- for a course to be listed in the minor program
- Minimum 2.0 cumulative point-hour ration (CPHR) required for the minor
- Course work graded Pass/Non-Pass cannot count towards the minor

Minor approval/changing the minor: A student who completes the minor following the requirements need only file their college's minor program form with their academic advisor or college office. Any changes must be approved by the Department of Civil, Environmental and Geodetic Engineering

Filing the minor program form: The minor program form must be filed at least by the time the graduation application is submitted to the student's respective department

**Required Courses All 3 courses below must be completed**

Course Number	Title	Hours	Term	Prerequisites
ENVENG 3200	Fundamentals of Environmental Engineering	3	AU/SP	Chem 1210 or 1250 and enrollment in CEGE major
ENVENG 3210	Environmental Engineering Unit Operations	3	SP	POI or CIVILEN 3130 and Chem 1220
ENVENG 2100	Environmental Engineering Analytical Methods	3	SP	Chem 1220 or 1250 and enrollment in CEGE major

**Electives of Minor**

Course Number	Title	Hours	Term	Prerequisites
FABENG 5310	Ecological Engineering and Science	4	SP	One course in Biology, Ecology, Engineering, or Geology and Rank 3+ ; Cross-listed in ENVENG and ENR
ENVENG 4200	Environmental Engineering Unit Operations Lab	1	AU	ENVENG 2100 and ENVENG 3210; ENVENG 5110 (c)
ENVENG 5110	Environmental Engineering Bioprocesses	3	AU	ENVENG 3200
ENVENG 5170	Sustainability and Pollution Prevention Practices	3	SP	ENVENG 3200 or POI
CIVILEN 5230	Transport Phenomenon in Water Resource Eng.	3	SP (even)	Math 2173, 2177, 2255, or 2415 and CIVILEN 3160
CBE 5772	Principles of Sustainable Engineering	3	SP	POI or CBE 3508
EARTHSC 5651	Hydrogeology	4	AU	EarthSci 1100,1105,1108,1121,1151,2203, or 2205 and Math 1152 or above
ENR 3000 and 3001	Soil Science	3/1	AU/SP	Rank 2+
ENR 5273	Fate of Pollutants in Soils and Natural Waters	3	SP	2 semesters of Chemistry

POI = student may need Permission of Instructor for enrollment if prereq. is not part of major curriculum (c) = concurrent requisite