

ENVIRONMENTAL ENGINEERING MINOR

Contact

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Description

The environmental engineering minor allows students to learn about the scientific, engineering, and social foundations of the field. It prepares them to incorporate sustainable best practices and apply responsible management of natural resources into their future careers. Students enrolled in this program have the option to focus on one specific discipline or explore several areas of environmental engineering.

Admission Requirements

The Environmental Engineering minor is available to all University students who have the necessary prerequisites to take the courses accepted for the minor and have a cumulative GPA of 2.50 or above. To be admitted to the program, students must submit a Declaration of Minor form signed by their academic advisor, the environmental engineering minor coordinator, and the academic dean of their home school/college.

Course Requirements

To complete the minor, students are required to take a minimum of six courses (at least 18 credits), including three core courses and three upper level (300 or above) elective courses. Students must take at least three CEE courses that do not apply to their major requirements. Civil engineering students can fulfill this requirement by taking at least two elective courses from the provided list that would not count toward their major.

Students who wish to focus their minor in specific areas - Hydrology and Hydraulics, Water Quality, or Sustainability - should consult with the minor coordinator to plan their coursework.

Code	Title	Credits
1. Core Curriculum: 9 credits		
Students must take CEE 341, one course from Sustainability, and one course from Data Analysis.		
CEE 341	Introduction to Environmental Engineering	3
<i>Sustainability (Choose 1):</i>		
CEE 274	Sustainability in Civil and Environmental Systems	3
CEE 275	Infrastructure and Society	3
EAR 203	Earth System Science	4
<i>Data Analysis (Choose 1):</i>		
ECS 104	Engineering Computational Tools	3

EAR 201	Introduction to Earth and Environmental Data Analysis	2
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2. Elective Courses: Choose 3

Choose three courses from the list of electives. Note that: (1) only one of these four courses (BEN 333, CEN 333, CEE 327, MAE 341) can count toward the minor, (2) only one of these three courses (CEE 471, CEN 461, EAR 419) can be applied toward the minor.

BEN 333	Fluid Transport	3
CEE 327	Prin of Fluid Mechanics	4
CEE 329	Probability, Statistics and Risk for Civil and Environmental Engineering	4
CEE 352	Water Resources Engineering	4
CEE 413	Physical Hydrology	3
CEE 442	Treatment Processes in Environmental Engineering	3
CEE 457	Biogeochemistry	3
CEE 463	Introduction to Sustainable Engineering	3
CEE 471	Environmental Chemistry and Analysis	3
CEE 472	Applied Env Microbiology	3
CEE 562	Air Resources	3
CEE 571	Water Quality Modeling	3
CEE 573	Water, Sanitation, and Sustainability in Low-Resource Settings	3
CEN 333	Fluid Transport	3
CEN 461	Environmental Chemistry and Analysis	3
CEN 472	Applied Env Microbiology	3
CEN 562	Air Resources	3
CHE 346	Physical Chemistry I	3
EAR 401	Hydrogeology	3
EAR 413	Physical Hydrology	3
EAR 419	Environmental Aqueous Geochemistry	3
ECS 354	Green Technology and Sustainability	3
MAE 341	Fluid Mechanics	4