

ENVIRONMENTAL ENGINEERING (MINOR)

Program Description

Environmental engineers play an important role in designing and implementing projects that protect public health and ecosystems, and therefore play an important societal role in our highly impacted and changing world. The goal of the Civil and Urban Engineering undergraduate minor in Environmental Engineering is to expose undergraduate students to the fundamental principles of environmental engineering theory and practice, which can be applied to solving practical problems that involve evaluation and treatment of contaminated water, soils, and air. Students will develop knowledge and skills in mass and energy balances, reactor models, unit treatment processes, environmental chemistry and microbiology, water resource engineering, hydrology, and environmental contaminants. These skills, along with an emphasis on building analytical reasoning and critical thinking capabilities, can be applied to problem-solving in environmental engineering or additional engineering domains.

The minor is open to all undergraduate students. BS CE students are expected to be able to complete the minor within the required 129 credits.

Admissions

New York University's Office of Undergraduate Admissions supports the application process for all undergraduate programs at NYU. For additional information about undergraduate admissions, including application requirements, see How to Apply (<https://www.nyu.edu/admissions/undergraduate-admissions/how-to-apply.html>).

Program Requirements

The minor requires the completion of 15 credits, and prerequisite courses as shown below.

Minor Prerequisites

Course	Title	Credits
Select one of the following: ¹		3
CE-UY 2213	FLUID MECHANICS AND HYDRAULICS	
CBE-UY 3313	Transport I	
ME-UY 3313	Fluid Mechanics	
or equivalent		
Select one of the following: ¹		4
CM-UY 1003	General Chemistry for Engineers	
CM-UY 1013	GENERAL CHEMISTRY I	
CHEM-UA 125	General Chemistry I & Laboratory	
or equivalent		
Select one of the following: ¹		1
CM-UY 1001	General Chemistry for Engineers Laboratory	
CM-UY 1011	General Chemistry Laboratory I	

¹

CE students currently take these courses as part of their major.

Minor Requirements

Course	Title	Credits
Core Courses		
CE-UY 3223	INTRO TO ENVIRONMENTAL ENGINEERING ¹	3
CE-UY 3233	ENVIRONMENTAL ENGINEERING PROCESS DESIGN	3
CE-UY 3243	WATER RESOURCES ENGINEERING ¹	3
Electives		
Select two of the following undergraduate electives:		6
CE-UY 2253	ENVIRONMENTAL CHEMISTRY AND MICROBIOLOGY	
CE-UY 3263	AIR POLLUTION GENERATION AND CONTROL	
CE-UY 3273	ENVIRONMENTAL DATA ANALYSIS	
CE-UY 4213	GREEN INFRASTRUCTURE DESIGN	
Total Credits		15

¹

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Graduate Electives

Graduate environmental engineering courses may be substituted for the above electives for students with a cumulative GPA > 3.0 with the approval of both the undergraduate academic adviser and the environmental engineering minor program adviser.

Policies

Minor GPA Policy

In order for the Minor to be awarded and recorded on the official student transcript, the student has to obtain an overall 2.00 GPA in the Minor courses.

NYU Policies

University-wide policies can be found on the New York University Policy pages (<https://bulletins.nyu.edu/nyu/policies/>).

Tandon Policies

Additional academic policies can be found on the Tandon academic policy page (<https://bulletins.nyu.edu/undergraduate/engineering/academic-policies/>).