This is your opportunity to learn from the best

As an environmental engineering and science student, you will benefit from our highly regarded faculty who are at the forefront of their technical fields and who hold professional and decision making positions in the New York City Metropolitan Area. Full-time faculty members are augmented by adjunct professors who are professional engineers and environmental industry executives. These individuals will provide you with a wealth of knowledge and experience, as well as a practical perspective of the industry. In the last three years, three text books and over 30 research papers have been published by our faculty. Students will be involved in state of the art research including urban environmental sustainability challenges.

Tailored to meet today's challenges

It is vital that future environmental leaders have the expertise to meet the challenges that their companies will face. Our programs will provide you with a solid foundation in environmental disciplines, as well as a broad base core of contemporary topics that are necessary to thrive in the 21st Century.

ENVIRONMENTAL ENGINEERING
AND SCIENCE CORE COURSES

Course No. Course Title
CE 7223 Hydrology
CE 7233 Groundwater Hydrology and Pollution
CE 7373 Environmental Chemistry & Microbiology
CE 7423 Water & Wastewater Treatment
CE 7753 Urban Environmental Systems Management
CE 7873 Environmental Impact Assessment

NYU-POLY ELECTIVE COURSES

Course No. Course Title
CE 7393 Advanced Environmental Chemistry & Microbiology
CE 7433 Advanced Water & Wastewater Treatment
CE 7473 Analysis of Stream and Estuary Pollution
CE 7523 Air Pollution
CE 7553 Environmental Toxicology
CE 7703 Solid Waste Management
CE 8483 Environmental Geotechnology
CE 9013 Readings in Civil Engineering
CE 9043 MS Project in Civil Engineering
CE 9973 MS Thesis in Civil Engineering

NYU ELECTIVE COURSES

Course No. Course Title
BIOC-GA 1004 Environmental Health (NYU CAS)
EHSC-GA 1010 Weather, Air Pollution and Health (NYU CAS)
EHSC-GA 1006 Toxicology (NYU CAS)

ALL COURSES ARE 3 CREDITS EXCEPT THESIS

FACULTY

Mohammad Karamouz, PE, DWRE
Director and Research Professor
PhD, Purdue University

Alvin S. Goodman, PE, Emeritus Professor
PhD, New York University

Alan Molof, PE, Emeritus Professor
PhD, University of Michigan

Anne Dudek Ronan, PE, Industry Professor
PhD, Stanford University

Sungho Yoon, Research Assistant Professor
PhD, Polytechnic University (NYU-Poly)

Masoud Ghandehari, Associate Professor
PhD, Northwestern University

Mohsen Hossain, PE, Industry Associate Professor
PhD, McGill University

Jay Om, Adjunct Professor
PhD, Polytechnic University

Raoul Cardenas, Adjunct Professor
PhD, New York University

Haralampos V. Vasiliadis, PE, DWRE, DEE
Adjunct Professor
PhD, Polytechnic University

FOR MORE INFORMATION

Polytechnic Institute of NYU
Office of Graduate Enrollment Management
Environmental Engineering and Science Program
Six MetroTech Center
Brooklyn, New York 11201
718.260.3182
gradinfo@poly.edu
Develop solutions to the world’s environmental challenges

Master of Science in Environmental Engineering | 30 credits

Overview
Environmental science and environmental engineering are multidisciplinary professions dealing with preserving, protecting and remediating air, water and soil environments. The programs prepare graduates to plan, functionally design, control, operate and manage municipal and industrial pollution-prevention systems.

Students are exposed to a learning atmosphere that provides a mix of theoretical and practical approaches in order to be employed immediately to meet environmental challenges or to proceed directly to advanced graduate studies. These programs have an urban environmental systems focus and are unique in concentrating on many challenges in New York City and other major cities of the world.

Urban environmental sustainability is a major challenge in New York City. NYU-Poly is a world class institution in this area through its many initiatives and programs including partnership in the new NYU Center for Urban Science and Progress (CUSP).

Objectives of the MS in Environmental Engineering
The primary objective of the MS in Environmental Engineering is to prepare students and professionals to:

- functionally design air, water and wastewater treatment systems and components;
- control and operate environmental infrastructure;
- understand the modeling, simulation and management of environmental systems; and
- participate actively in multidisciplinary teams to solve environmental engineering problems focusing on urban challenges including noise pollution.

Objectives of the MS in Environmental Science
The primary objective of the MS in Environmental Science is to prepare students and professionals to:

- fundamentally understand the science and applied engineering of natural and urban environmental systems;
- evaluate the interactions between man and the environment, and control adverse impacts of pollution on ecological systems considering climate change;
- understand the monitoring, laboratory analysis and management of environmental systems; and
- participate actively in a multidisciplinary team of professionals to solve environmental science problems focusing on urban watersheds.

General Admission Requirements
Applicants for the Master of Science in Environmental Engineering should hold an undergraduate or graduate degree in environmental or civil engineering, or equivalent from an accredited institution. Students may be accepted with other related backgrounds, but should, at a minimum, have one year of chemistry and physics and basic courses in calculus and differential equations. Such students may be asked to take up to 15 credits of undergraduate courses to complete their preparation. Applicants for the Master of Science in Environmental Science typically have undergraduate or graduate degrees in the physical, chemical or biological sciences. The advisor may require or recommend undergraduate courses to make up for academic preparation deficiencies.

Analytical Background
All applicants for an MS in environmental programs must show evidence of quantitative analytic ability, generally including a minimum of two years of college mathematics and a college-level course in statistics. Academic preparation could include taking CE 2215, CE 3220 and CE 3243 or equivalent.

Grade Requirements
NYU-Poly requires that students have a 3.0 GPA or better in all graduate courses, in all guided studies (readings, projects, theses), and in undergraduate bridge courses. Transfer credits from other institutions are not included in this average.

Advising
Each graduate student is assigned a faculty academic adviser. Students must maintain frequent contact with their advisers throughout their studies. Students must meet with their academic advisers before each registration and at any other time they need advice or consultation. Check the catalog for other advising policies.

Transfer Credits
Students must take a minimum of 24 credits at Polytechnic in order to be awarded an MS degree. Students may transfer up to 6 credits of acceptable courses toward a MS degree, subject to the academic adviser’s approval. To be transferred, the course(s) must be relevant to the program and from an acceptable institution. A grade of B or better is required for any transfer credit.