The Polytechnic School of Engineering at New York University—New York’s Most Comprehensive Resource for Engineering, Applied Science and Technology Management

BENEFITS OF THE MS IN CIVIL ENGINEERING

This is your opportunity to learn from the best

As a civil engineering student, you will benefit from our highly regarded faculty. Your courses will be taught by faculty who are at the forefront of their technical fields and who are frequently working on projects of current interest, often within the region. Full-time faculty members are augmented by adjunct professors who are professional engineers and civil engineering industry executives. These individuals will provide you with a wealth of knowledge and experience, as well as an extraordinary perspective of the industry.

Tailored to meet today’s challenges

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

Schedule & Locations

Graduate courses are offered at the main campus at MetroTech Center in downtown Brooklyn. To meet the needs of working professionals, courses are offered in the evenings. Occasionally courses are offered at satellite campuses in Manhattan.

The value of continued learning

The MS program Polytechnic offers provides a basis for continued, lifelong learning in the civil engineering profession. The experience project management and modern infrastructure is invaluable and often becomes a start to further research. Graduates may choose to go on to seek doctoral degrees.

FACULTY

Structures and Materials

Vasily A. Gritsenko, PhD, Associate Professor
Raula Makot, PhD, Lecturer
Welch J., PhD, PE, Industry Professor
Jing L., PhD, PE, Adjunct Professor
President, J. L. O. & Associates
Wald L. Aboumoussa, PhD, PE, Adjunct Professor
Alwais Sadek, PhD, PE, Adjunct Professor
Omar Khair-Eldin, CE, PE, Adjunct Lecturer
Senior Superintendent Engineer, PARSONS, P.T.S., Engineers

Garcia

Maguyd Irtskadar, PhD, PE, Professor and Department Head
Mohsen Hossain, PhD, Industry Associate Professor, Graduate Adviser
Stephen Reiss, ScD, Research Professor

Transportation

Rogier F. Roos, PhD, Emeritus Professor
John C. Papatheo, PhD, PE, Professor
Kaan Ozturk, PhD, Professor
Benjamin Prasad, PhD, Associate Professor
Joel M. Ullman, M. E., Industry Professor
Andrew Bates, Adjunct Professor
Chief, Strategic Improvements, MTA New York City Transit
Richard Mathew, Adjunct Professor
Acting Commissioner/Final Deputy Commissioner, NYCDOT (retired)
Philip Habib, PhD, PE, Adjunct Professor
Principal, Philip Habib & Associates
Raman Patel, PhD, Adjunct Professor
Gerardo Sansone, MBA, Adjunct Lecturer
MTA New York City Transit

Environmental and Water Resources

Aharon Milo, PhD, Emeritus Professor
Annie Dukas Renan, PhD, PE, Industry Professor
Haralimbro Vavassortis, PhD, PE, DEE, DIWRE, CH, Adjunct Professor
Song-jo Yoon, PhD, Research Assistant Professor
Raul Gardenas, PhD, Adjunct Professor
Razzabeh Nazari, PhD, Adjunct Professor
Jay Orm, PhD, Adjunct Professor

Construction

Rafaelh H. (Bud) Griffiths, PhD, PE, Professor
Lawrence Cirelli, PE, Esp, Industry Professor
Andrew Bates, Adjunct Professor
Francisco Lombardi, PE, Adjunct Professor
Chief Engineer, The Port Authority of New York and New Jersey (RET)

M.DIS

Jerome White, PE, Adjunct Professor
President, Jerome B. White PC
Hyunchul Choi, PhD, Adjunct Professor
Peter Amato, Adjunct Lecturer
President, Site Safety, LLC

Civil Engineering

Pooyan Aslani, PhD, Adjunct Professor
Project Control Specialist, PMI Consulting, Inc.
John F. Caruso, Adjunct Lecturer
Principal, John Caruso Consultants

Rail

Albert DiBianco, Adjunct Lecturer
Principal, Weidinger Associates
Dominick J. Riccius, Adjunct Lecturer
Vice President, URS Corp.

Civil Engineering

Michael F. Weaner, Adjunct Lecturer
Consolidated Edison Company of New York (RET)

Geotechnical

Lenos Mitroff, Adjunct Lecturer
Director of Marketing, URS Corp

Construction

Joel Sciascia, Esq, Adjunct Lecturer
General Counsel, Pavarini McGovern LLC

Structures

Ralph D. Amicucci, JD, CCIM, Amicucci Management, Adjunct Lecturer
Robert N. Harvey, PE, Adjunct Lecturer
VP, Regional Business Development Director, URS Corp.

Urban Systems Engineering and Management

John E. Osborne, Esq., Partner, John E. Osborne, PC, Adjunct Lecturer
Lou Veneck, General Manager, Transportation Policy & Planning, Port Authority of New York and New Jersey, Adjunct Lecturer

NYU Polytechnic School of Engineering

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FOR MORE INFORMATION

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Civil Engineering Program
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An Advanced Education for Civil Engineering Professionals

**OVERVIEW**

A master’s degree in Civil Engineering will prepare you to practice your profession at an advanced level. The program will provide you with a core foundation of skills needed for CE practice in the 21st century, with particular focus on designing and analyzing civil engineering infrastructure. Two program options are available: (1) you may elect to specialize in one of the primary sub-disciplines of civil engineering or (2) you may elect to follow a general program by taking courses across several areas of concentration. With either option, you will also have the opportunity to take courses in related graduate programs such as construction management, transportation planning, management, environmental science and engineering, and urban systems engineering and management.

**ADMISSIONS REQUIREMENTS**

Students seeking admission to the MS program should hold a bachelor’s degree in civil engineering from a program accredited by the Accreditation Board for Engineering and Technology (ABET) with a 3.0 GPA or better. Applicants lacking a BS from an ABET-accredited program in civil engineering (including those possessing undergraduate degrees in other engineering disciplines, engineering science, engineering technology, architecture or from a foreign university) must take the Graduate Record Examination (GRE) general test. Admission may be granted and may include the requirement for additional undergraduate courses to make up deficiencies. These additional courses are not counted toward the MS degree, nor are undergraduate courses included in the computation of graduate grade-point average. Applicants from universities outside the United States must also take the Test of English as a Foreign Language (TOEFL) exam.

In some cases, the department head may waive the GRE and/or TOEFL after a graduate adviser examines the student’s transcripts and interviews the candidate. Foreign candidates who meet all other admission requirements but fail to meet English as a Foreign Language (TOEFL) exam.

**CURRICULUM**

The Master of Science in Civil Engineering allows students to specialize in one of the following six areas of concentration:

- **Construction Management and Engineering**
- **Structural Engineering**
- **Geotechnical Engineering**
- **Environmental and Water Resource Engineering**

The MS in Civil Engineering consists of 30 credits. A minimum of 4 core courses (12 credits) are required. Students must also complete at least four courses (12 credits) in their area of concentration. Of the remaining credits, students may repeat a course with their adviser’s approval.

**TYPICAL CONCENTRATION COURSES**

- **Geotechnical Engineering**
  - Geotechnical Engineering
  - Environmental Geotechnology
  - Geotechnical Hazard Management
  - Geotechnical Hydrology and Pollution

- **Structural Engineering**
  - Theory of Structures Analysis
  - Bridge Engineering
  - Stabilization of Structures
  - Concrete Structures
  - Steel Structures

- **Environmental and Water Resource Engineering**
  - Groundwater Hydrology and Pollution
  - Environmental Chemistry and Microbiology I
  - Water and Wastewater Treatment I
  - Pond and Transport Modeling of Surface Water Pollution

- **Construction Management and Engineering**
  - Construction Project Management
  - Construction Process Design

- **General Program**
  - Environmental and Water Resource Engineering
  - Structural Engineering

- **Thesis**
  - Thesis, Project or Electives

**15-Credit Certificate Programs**

- **Transportation**
- **Construction Management**
- **ESECE Consulting**