

Dear Graduate Student,

Congratulations on your recent acceptance to Northeastern University's Department of Civil and Environmental Engineering (CEE). We are delighted you have decided to join our program.

Please find below some important information to help you with the admission process and facilitate your transition to our program. This information mostly pertains to MS students. PhD students admitted to the Civil Engineering or Interdisciplinary programs may find additional information [here](#).

Assignment of Academic Advisor

If your admission letter does not specify an academic advisor, you will be assigned an initial academic advisor during Orientation based on your concentration area. Your initial advisor will assist you in entering the program, choosing courses, and more. The academic advisors for the different areas and programs are listed below.

Associate Chair for Graduate Studies: Prof. Haris N. Koutsopoulos

MS in Civil Engineering

Construction Management: Professor Ali Touran

Geotechnical/Geoenvironmental Engineering: Professor Mishac Yegjian

Structures: Professor Andrew Myers

Transportation: Professor Peter Furth

Water, Environmental, and Coastal Systems: Professor Jim Chen

MS in Environmental Engineering: Professor Ameet Pinto

MS in Engineering & Public Policy:

Energy and Environment: Professor Matthew Eckelman

Infrastructure Resilience: Professor Matthew Eckelman

MS in Sustainable Building Systems: Professor David Fannon

The above also serve as Graduate Advisors for the corresponding areas of study in the CEE Ph.D program. CEE. Professor Jim Chen is the Graduate Advisor for the Interdisciplinary Ph.D. program.

Curriculum and Class Registration

Please remember to confirm your enrollment at Northeastern. You will not be able to preregister for classes (information below) until you confirm enrollment. You can confirm your enrollment by [logging into your application account](#) and paying the enrollment deposit.

All students are strongly urged to register for courses at this time to enable us to ascertain the likely enrollments in each course. Once you arrive on campus and consult with your academic advisor, you can change your course selections as needed, including adding and dropping courses until the end of the second week of the term.

For a detailed list of graduate courses (*core, electives, etc.*), please refer to the CEE Graduate Catalog, available on-line [here](#). For course descriptions, please check [here](#).

For the complete and updated calendar of Fall 2019 courses, please visit the "Banner Dynamic Class Schedule", maintained online by the Office of the Registrar: https://wl11gp.neu.edu/udcprod8/NEUCLSS.p_disp_dyn_sched, select Fall 2019 for the term, then "Civil and Environmental Engineering" for Subject and "Graduate" for Course Level. For courses offered by other departments, please refer to the corresponding webpage or call the CEE Front Office at 617-373-2444.

For completion of the MS program, please read the degree course requirements described in the CEE Graduate Catalog as listed above. There are different MS degree options. Consult with your academic advisor regarding the degree options and course requirements. Typical recommendations for initial courses for MS students by discipline concentrations are provided later in this letter.

For completion of the PhD program, please read the degree course requirements described in the CEE Graduate Catalog. Consult with you advisor regarding the core and elective course requirements.

Sample Course Selections for Fall 2019

The following section provides examples of typical course selections for each concentration area. It is recommended to take two to four courses in a semester, with two to three courses being common for first semester students. Note that this is for your reference only; we recommend you consult with your advisor and look at the course catalog for more in-depth information, particularly to ensure you have the appropriate prerequisites.

MASTER'S IN CIVIL ENGINEERING

Construction Management Concentration

Required Core Courses

- CIVE 7220 – Construction Management
- CIVE 7230 – Legal Aspects of Civil Engineering
- EMGT 6305 – Financial Management for Engineers
- IE 6200 – Engineering Probability and Statistics

Restricted and Other Electives

- ACCT 6200 – Financial Reporting and Managerial Decision Making 1
- ACCT 6201 – Financial Reporting and Managerial Decision Making 2
- CIVE 5699 – Special Topics in CE: Building Energy Performance Simulation
- CIVE 7301 – Advanced Soil Mechanics
- EMGT 5300 – Engineering-Organizational Psychology
- GE 5010 – Customer-Driven Technical Innovation for Engineers
- GE 5100 – Product Development for Engineers

IE 5617 – Lean Concepts and Applications
IE 5640 or IE 7275 – Data Mining for Engineering Applications
IE 7215 – Simulation Analysis
INFO 6210 – Data Management and Database Design
INFO 6215 – Business Analysis and Information Engineering
OR 6205 – Deterministic Operations Research
SBSY 5300 – Information Systems for Integrated Project Delivery

The full list of Required and Restrictive Electives for Construction Management is found [here](#).

Water, Environmental, and Coastal Systems Concentration

Course suggestions for Water, Environmental, and Coastal Systems Concentration Students:

Required Core Courses

CIVE 5281 – Coastal Dynamics and Design
CIVE 7250 – Environmental Chemistry
CIVE 7260 – Hydrologic Modeling

Restricted Electives

CIVE 5271 – Solid and Hazardous Waste Management
CIVE 5300 – Environmental Engineering Laboratory
CIVE 5536 – Hydrologic and Hydraulic Design
CIVE 7252 – Water Engineering: Planning, Design, and Management
CIVE 7255 – Environmental Physical/Chemical Processes
ME 6200 – Mathematical Methods for Mechanical Engineers 1

Other Electives

EECE 7204 – Applied Probability and Stochastic Processes
ENVR 5260 – Geographical Information Systems
EEMB 5516 – Oceanography
IE 6200 – Engineering Probability and Statistics
IE 7280 – Statistical Methods in Engineering
MATH 7344 – Regression, ANOVA, and Design

The full list of Required and Restrictive Electives for Water, Environmental, and Coastal Systems is found [here](#).

Geotechnical/Geoenvironmental Engineering Concentration

Required Core Courses

CIVE 7301 – Advanced Soil Mechanics

Restricted Electives

CIVE 5271 – Solid and Hazardous Waste Management
CIVE 5300 – Environmental Engineering Laboratory

CIVE 5536 – Hydrologic and Hydraulic Design
CIVE 7230 – Legal Aspects of Civil Engineering
CIVE 7250 – Environmental Chemistry
CIVE 7260 – Hydrologic Modeling
CIVE 7330 – Advanced Structural Analysis
CIVE 7331 – Structural Dynamics
IE 6200 – Engineering Probability and Statistics

The full list of Required and Restrictive Electives for Geotechnical Engineering is found [here](#).

Structures Concentration

Required Core Courses

CIVE 7330 – Advanced Structural Analysis
CIVE 7331 – Structural Dynamics

Restricted Electives

CIVE 5520 – Structural Systems
CIVE 5522 – Structural Systems Modeling
CIVE 5525 – Prestressed Concrete Design
CIVE 7340 – Seismic Analysis and Design
CIVE 7351 – Behavior of Steel Structures
CIVE 7341 – Structural Reliability
CIVE 7351 – Behavior of Steel Structures

Other Electives

CIVE 7301 – Advanced Soil Mechanics
CIVE 7388 – Special Topics in CE: Urban Informatics Processing
CIVE 7388 – Special Topics in CE: Random Data and Processing
MATH 7241 – Probability 1
ME 5240 – Computer Aid Design and Manufacturing
ME 5655 – Dynamics and Mechanical Vibration
ME 6200 – Mathematical Methods for Mechanical Engineers 1
ME 7210 – Mathematical Methods for Mechanical Engineers 2
ME 7232 – Theory of Plates and Shells
ME 7255 – Continuum Mechanics
SBSY 5100 – Sustainable Design and Technologies in Construction

The full list of Required and Restrictive Electives for Structures is found [here](#).

Transportation Concentration

Required Core Courses

CIVE 5373 – Transportation Systems: Analysis and Planning
IE 6200 – Engineering Probability and Statistics

Restricted Electives

CIVE 7381 – Transportation Demand Forecasting and Model Estimation

IE 7215 – Simulation Analysis
IE 7280 – Statistical Methods in Engineering

Other Electives

IE 7275 – Data Mining in Engineering
INFO 6210 – Data Management and Database Design
OR 6205 – Deterministic Operations Research
OR 7230 – Probabilistic Operation Research
OR 7245 – Network Analysis and Advanced Optimization
PPUA 5263 – Information Systems for Urban and Regional Policy

The full list of Required and Restrictive Electives for Transportation is found [here](#).

MASTER'S IN ENVIRONMENTAL ENGINEERING

Required Core Courses

CIVE 7250 – Environmental Chemistry
CIVE 7255 – Environmental Physical/Chemical Processes
CIVE 7260 – Hydrologic Modeling

Restricted Electives

CIVE 5271 – Solid and Hazardous Waste Management
CIVE 5300 – Environmental Engineering Laboratory
CIVE 5536 – Hydrologic and Hydraulic Design
CIVE 7252 – Water Engineering: Planning, Design, and Management

Other Electives

EECE 7204 – Applied Probability and Stochastic Processes
ENVR 5190 – Soil Science
ENVR 5260 – Geographical Information Systems
IE 6200 – Engineering Probability and Statistics
IE 7280 – Statistical Methods in Engineering
MATH 7241 – Probability 1
MATH 7344 – Regression, ANOVA, and Design

The full list of Required and Restrictive Electives for Environmental Engineering is found [here](#).

MASTER'S IN ENGINEERING AND PUBLIC POLICY

Energy and Environment Concentration

Required Core Courses

Energy and Environment

ENGR 5670 – Sustainable Energy: Materials, Conversion, Storage, and Usage

Environmental Systems Modeling

Economics

PPUA 6502 – Economical Analysis for Policy and Planning

Public Policy and Analysis

PPUA 6506 – Techniques of Policy Analysis

PPUA 6509 – Techniques of Program Evaluation

Statistics

IE 5640 – Data Mining for Engineering Applications

IE 6200 – Engineering Probability and Statistics

IE 7280 – Statistical Methods in Engineering

INSH 5301 – Introduction to Computational Statistics

INSH 6500 – Statistical Analysis

Restricted and Other Electives

CIVE 5271 – Solid and Hazardous Waste Management

CIVE 5300 – Environmental Engineering Laboratory

CIVE 7252 – Water Engineering: Planning, Design, and Management

EMGT 6225 – Economic Decision Making

ENVR 5260 – Geographical Information Systems

PHTH 5214 – Environmental Health

PPUA 5262 – Big Data for Cities

PPUA 5263 – Geographic Information Systems for Urban and Regional Policy

PPUA 5264 – Energy Transitions and Climate Resilience: Technology, Policy, and Social Change

PPUA 7230 – Housing Policy

The full list of Required and Restrictive Electives for Engineering and Environment is found [here](#).

Infrastructure Resilience Concentration

Required Core Courses

Infrastructure Resilience

Environmental Systems Modeling

Economics

PPUA 6502 – Economical Analysis for Policy and Planning

Public Policy and Analysis

PPUA 6506 – Techniques of Policy Analysis

PPUA 6509 – Techniques of Program Evaluation

Statistics

IE 5640 – Data Mining for Engineering Applications

IE 6200 – Engineering Probability and Statistics

IE 7280 – Statistical Methods in Engineering

INSH 5301 – Introduction to Computational Statistic
INSH 6500 – Statistical Analysis

Restricted and Other Electives

CIVE 5699 – Special Topics in CE: Building Energy Performance Simulation
CY 5250 – Decision Making for Critical Infrastructure
EMGT 6225 – Economic Decision Making
ENVR 5260 – Geographical Information Systems
PHTH 5214 – Environmental Health
PPUA 5262 – Big Data for Cities
PPUA 5263 – Geographic Information Systems for Urban and Regional Policy
PPUA 5264 – Energy Transitions and Climate Resilience: Technology, Policy, and Social Change
PPUA 7230 – Housing Policy

The full list of Required and Restrictive Electives for Infrastructure Resilience is found [here](#).

MASTER'S IN SUSTAINABLE BUILDING SYSTEMS

Required Core Courses

ARCH 5210 – Environmental Systems
And ARCH 5211 – Recitation for ARCH 5210
SBSY 5100 – Sustainable Design and Technologies in Construction
SBSY 5400 – Sustainable Building Systems Seminar

Restricted Electives

CIVE 5699 – Special Topics in CE: Building Energy Performance Simulation
CIVE 7220 – Construction Management
Or EMGT 5220 – Engineering Project Management
CIVE 7230 – Legal Aspects of Civil Engineering
EMGT 6305 – Financial Management for Engineers
SBSY 5300 – Information Systems for Integrated Project Delivery

Other Electives

ACCT 6200 – Financial Reporting and Managerial Decision Making 1
ACCT 6201 – Financial Reporting and Managerial Decision Making 2
CIVE 7351 – Behavior of Steel Structures
FINA 6200 – Value Creation through Financial Decision Making
FINA 6217 – Real Estate Finance and Investment

How do I register for classes?

Please watch the following webinars for instructions on how to register using your MyNEU account:

- Course Search Webinar: <http://www.northeastern.edu/registrar/webinar-search.html>
- Course Add/Drop Webinar: <http://www.northeastern.edu/registrar/webinar-adddrop.html>

What if my course is full?

Although rare, if a course is full, you may contact the course instructor and ask if an additional seat can be accommodated in the classroom. If a seat isn't available in your preferred classes right away you can also join the waitlist. Enrollments are always shifting as students get co-ops or change their course registrations. To join a waitlist enter the class CRN (the 5 numbers in parentheses next to the course number above) directly into your registration sheet and hit submit. You will then have an option to select "waitlist" from a drop down menu. The waitlist system will automatically inform you when a seat opens up- just log into your account and accept it within the 24 hour time limit!

What if I am a part time student?

We recommend starting with one core course for your concentration.

Will I get a bill after registering for a course?

Yes. Typically, your first e-bill is generated when you register for your courses. You will receive an e-bill from the University with instructions on how to pay the e-bill. If you have questions about payment, please contact the Student Financial Services office directly:

<http://www.northeastern.edu/financialaid/>

How do I get a MyNEU account?

After you confirm your enrollment, you will be able to access your MyNEU portal using this link, <https://myneu.neu.edu/>. If you have not set up your MyNEU account, login to your electronic application and look for instructions to do so:

https://app.applyyourself.com/AYApplicantLogin/fl_ApplicantConnectLogin.asp?id=neu-grad

How do I schedule a campus tour?

Please contact GSE Student Services at 617-373-2711 or by email at:

<https://husky.desk.com/customer/portal/emails/new>. An additional resource for campus tours is the Northeastern University Visitor Center. For directions and information please refer to:

<http://www.northeastern.edu/admissions/visit-campus/>

Do you have another question about enrollment, your visa status or housing?

Please take a moment to review the FAQ page of the Graduate School of Engineering (GSE) Student Services: <http://www.coe.neu.edu/graduate-school/graduate-faqs>. As an example, you

may search with the keyword ("housing"), look under the category "Newly Admitted Students", or contact the GSE by phone at 617-373-2711.

For more information about beginning your graduate studies at Northeastern University, please read your acceptance letter in full.

We look forward to welcoming you to the Department of Civil and Environmental Engineering and the Graduate School of Engineering.

Regards,

Waleed Meleis
Interim Associate Dean for Graduate Education
Office of the Dean
College of Engineering
Northeastern University

Jerome F. Hajjar
CDM Smith Professor and Chair,
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