Dear Graduate Student,

Congratulations on your recent acceptance to Northeastern University’s Department of Civil and Environmental Engineering (CEE). We are delighted that 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 please 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, to assist you in entering the program, choosing courses, etc. 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
- Environmental and Water Systems: Professor Jim Chen
- Geotechnical/Geoenvironmental Engineering: Professor Mishac Yegian
- Structures: Professors Mehrdad Sasani (Fall)/Andrew Myers (Spring)
- Transportation: Professor Peter Furth

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 Ph.D. programs in 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](https://wl11gp.neu.edu/udcprod8/NEUCLSS.p_disp_dyn_sched). For course descriptions, please check [here](https://wl11gp.neu.edu/udcprod8/NEUCLSS.p_disp_dyn_sched).

For the complete and updated calendar of Fall 2018 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](https://wl11gp.neu.edu/udcprod8/NEUCLSS.p_disp_dyn_sched), select Fall 2018 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 for different 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 your advisor regarding the core and elective course requirements.

Sample Course Selections for the Fall 2018

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, and we recommend that you consult with your advisor and look at the course catalog for more in-depth information, particularly to ensure that 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
- IE 6200 – Engineering Probability and Statistics
- EMGT 6305 – Financial Management for Engineers
Restricted and Other Electives

CIVE 7388 – Special Topics in CE: Urban Informatics Processing
CIVE 7388 – Special Topics in CE: Random Data and Processing
OR 6205 – Deterministic Operations Research
ACCT 6200 – Financial Reporting and Managerial Decision Making 1
ACCT 6201 – Financial Reporting and Managerial Decision Making 2
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

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

Environmental & Water Systems Concentration

Course suggestions for Environmental & Water Systems Concentration Students:

Required Core Courses

CIVE 7250 – Environmental Chemistry
CIVE 7260 – Hydrologic Modeling

Restricted Electives

CIVE 5271 – Solid and Hazardous Waste Management
CIVE 5300 – Environmental Engineering Laboratory
CIVE 7110 – Critical Infrastructure Resilience

Other Electives

CIVE 7388 – Special Topics in CE: Urban Informatics Processing
CIVE 7388 – Special Topics in CE: Random Data and Processing
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 7343 – Applied Statistics

The full list of Required and Restrictive Electives for Environmental & Water 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 5536 – Hydrologic Engineering
- CIVE 7230 – Legal Aspects of Civil Engineering
- CIVE 7250 – Environmental Chemistry
- CIVE 7260 – Hydrologic Modeling
- CIVE 7311 – Soil and Foundation Dynamics
- CIVE 7330 – Advanced Structural Analysis
- CIVE 7331 – Structural Dynamics
- CIVE 7394 – Soil Improvement
- IE 6200 – Engineering Probability and Statistics

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

**Structural Engineering Concentration**

*Required Core Courses*
- CIVE 7330 – Advanced Structural Analysis
- CIVE 7331 – Structural Dynamics

*Restricted Electives*
- CIVE 5522 – Structural Analysis II
- CIVE 5699 – Special Topics in Civil Engineering: Structural Systems
- CIVE 7351 – Behavior of Steel Structures
- CIVE 7341 – Structural Reliability
- CIVE 7351 – Behavior of Steel Structures

*Other Electives*
- CIVE 7311 – Soil and Foundation Dynamics
- CIVE 7388 – Special Topics in CE: Urban Informatics Processing
- CIVE 7388 – Special Topics in CE: Random Data and Processing
- MATH 7241 – Probability 1
- MATH 7343 – Applied Statistics
- ME 5240 – Computer Aid Design and Manufacturing
- ME 5655 – Dynamics and Mechanical Vibration
- ME 5659 – Control Systems Engineering
- ME 6200 – Mathematical Methods for Mechanical Engineers 1
- ME 7210 - Mathematical Methods for Mechanical Engineers 2
- ME 7238 – Advanced Finite Element Method
The full list of Required and Restrictive Electives for Structural Engineering is found [here].

**Transportation Engineering Concentration**

*Required Core Courses*
- CIVE 5376 – Traffic Engineering and Sustainable Urban Street Design
- IE 6200 – Engineering Probability and Statistics

*Restricted Electives*
- CIVE 7381 – Transportation Demand Forecasting and Model Estimation
- CIVE 7385 – Public Transportation
- CIVE 7388 – Special Topics in CE: Urban Informatics Processing
- CIVE 7388 – Special Topics in CE: Random Data and Processing
- IE 7215 – Simulation Analysis
- IE 7280 – Statistical Methods in Engineering

*Other Electives*
- IE 7275 – Data Mining for Engineering Applications
- INFO 6210 – Data Management and Database Design
- MATH 7343 – Applied Statistics
- 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 Engineering is found [here].

**MASTER’S IN ENVIRONMENTAL ENGINEERING**

*Required Core Courses*
- 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 Engineering

*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
The full list of Required and Restrictive Electives for Environmental Engineering is found here.

**MASTER’S IN ENGINEERING AND PUBLIC POLICY**

**Energy/Environmental Concentration**

*Required Core Courses*

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

Environmental Systems Modeling

Economics

Public Policy and Analysis
  - PPUA 6506 – Techniques of Policy Analysis
  - PPUA 6509 – Techniques of Program Evaluation

Statistics
  - IE 6200 Engineering Probability and Statistics
  - IE 7280 – Statistical Methods in Engineering
  - LPSC 7215 – Advanced Quantitative Techniques

*Restricted and Other Electives*

  - CIVE 5271 Solid and Hazardous Waste Management
  - CIVE 5300 Environmental Engineering Laboratory
  - CIVE 7388 – Special Topics in CE: Urban Informatics Processing
  - CIVE 7388 – Special Topics in CE: Random Data and Processing
  - EMGT 6225 – Economic Decision Making
  - ENVR 5210 – Environmental Planning
  - ENVR 5260 – Geographical Information Systems
  - ME 5645 - Environmental Issues in Manufacturing and Product Use
  - IE 5640 - Data Mining for Engineering Applications
  - PPUA 5262 – Big Data for Cities
  - PPUA 5263 – Geographic Information Systems for Urban and Regional Policy

The full list of Required and Restrictive Electives for Engineering and Public Policy is found here.

**Infrastructure Resilience Concentration**

*Required Core Courses*

Infrastructure Resilience
  - CIVE 7110 – Critical Infrastructure Resilience
Environmental Systems Modeling
   CIVE 5275 – Life Cycle Assessment of Materials, Products, and Infrastructure
   CIVE 5261 – Dynamic Modeling for Environmental Investment and Policy Making

Economics
   LPSC 6313 – Economic Analysis for Law, Policy, and Planning

Public Policy and Analysis
   PPUA 6506 – Techniques of Policy Analysis
   PPUA 6509 – Techniques of Program Evaluation

Statistics
   IE 6200 Engineering Probability and Statistics
   IE 7280 – Statistical Methods in Engineering
   LPSC 7215 – Advanced Quantitative Techniques

Restricted and Other Electives
   CIVE 5699 – Special Topics in CE: Building Energy Performance Simulation
   CIVE 5699 – Special Topics in CE: Coastal Dynamics and Design Practice
   EMGT 6225 – Economic Decision Making
   ENVR 5260 – Geographical Information Systems
   IA 5250 Decision Making for Critical Infrastructure
   IE 5640 – Data Mining for Engineering Applications
   ME 5645 - Environmental Issues in Manufacturing and Product Use
   PPUA 5262 – Big Data for Cities
   PPUA 5263 – Geographic Information Systems for Urban and Regional 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

Restricted Electives
   ARCH 5210 – Environmental Systems
   And ARCH 5211 – Recitation for ARCH 5210
   CIVE 7220 – Construction Management
   Or EMGT 5220 – Engineering Project Management
   CIVE 7230 – Legal Aspects of Civil Engineering
   CIVE 6305 – Financial Management for Engineers

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 5699 – Special Topics in CE: Structural Systems  
CIVE 7351 – Behavior of Steel Structures  
CIVE 7388 – Special Topics in CE: Urban Informatics Processing  
CIVE 7388 – Special Topics in CE: Random Data and Processing  
FINA 6200 – Value Creation through Financial Decision Making  
FINA 6217 – Real Estate Finance and Investment  
ME 5645 – Environmental Issues in Manufacturing and Product Use

**How do I register for classes?**

Visit the Office of the Registrar’s [Registration Experience](#) webpage to learn how to search and register for courses using your MyNortheastern account.

The online registration system will allow you to add or drop courses. If you have any questions or difficulties with course registration, please email [support@husky.desk-mail.com](mailto:support@husky.desk-mail.com).

**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/](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, http://myneu.neu.edu/cp/home/displaylogin. 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 in the Department of Civil and Environmental Engineering and the Graduate School of Engineering.

Regards,

Thomas C. Sheahan
Senior Associate Dean for Academic Affairs
Office of the Dean
College of Engineering
Northeastern University

Jerome F. Hajjar
CDM Smith Professor and Chair,
Civil and Environmental Engineering
College of Engineering
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