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.

COVID-19

The CEE department would be remiss if we did not acknowledge the COVID-19 pandemic and the extensive disruptions this has brought to you and to our services. However, our department is resilient and committed to the safety of our students. We are committed to delivering a world-class educational experience despite our circumstances.

Assignment of Faculty Advisor

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

Associate Chair for Graduate Studies: Professor Andrew Myers

MS in Civil Engineering
- Construction Management: Professor Ryan Wang
- Data and Systems: Professor Amy Mueller
- Geotechnical/Geoenvironmental Engineering: Professor Mishac Yegian
- Structures: Professor Luca Caracoglia
- Transportation: Professor Peter Furth
- Water, Environmental, and Coastal Systems: Professor Jim Chen

MS in Environmental Engineering: Professor Ameet Pinto

MS in Engineering & Public Policy: Professor Auroop Ganguly

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 Spring 2021 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 Spring 2021 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 email CEE Program Manager, Kyle Skene, at k.skene@northeastern.edu.

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 Spring 2021

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 5221 – Construction Project Control and Organization (2 SH)
- EMGT 6305 – Financial Management for Engineers
- IE 6200 – Engineering Probability and Statistics

Electives
- CIVE 5231 – Alternative Project Delivery Systems in Construction (2 SH)
- CIVE 7302 – Advanced Foundation Engineering
- CIVE 7240 – Construction Equipment and Modeling
- SBSY 5200 – Sustainable Engineering Systems for Buildings
- SBSY 5300 – Information Systems for Integrated Project Delivery

The full list of Required and Restrictive Electives for Construction Management is found here.

Data and Systems Concentration

Data and Computing
- CIVE 7100 – Time Series and Geospatial Data Sciences
  - Or ENVR 6500 – Biostatistics
  - Or IE 6200 – Engineering Probability and Statistics
  - Or IE 7280 – Statistical Methods in Engineering
  - Or INSH 5301 – Introduction to Computational Statistics
  - Or MATH 7343 – Applied Statistics
- IE 7275 – Data Mining in Engineering
- INFO 6101 – Data Science Engineering with Python
- INFO 6210 – Data Management and Database Design

Systems and Sensors
- CIVE 5261 – Dynamic Modeling for Environmental Investment and Policymaking
- OR 6205 – Deterministic Operations Research
- OR 7230 – Probabilistic Operation Research
- OR 7245 – Network Analysis and Advanced Optimization
- PPUA 6502 – Economic Analysis for Policy and Planning

Civil and Environmental Systems
CIVE 5281 – Coastal Dynamics and Design
CIVE 5363 – Climate Science, Engineering Adaptation, and Policy
CIVE 5373 – Transportation Systems Analysis and Planning
CIVE 5536 – Hydrologic and Hydraulic Design
CIVE 7381 – Transportation Demand Forecasting and Model Estimation
CIVE 7385 – Public Transportation
IE 7200 – Supply Chain Engineering
OR 7310 – Logistics, Warehousing, and Scheduling
SBSY 5200 – Sustainable Engineering Systems for Buildings

Electives

CIVE 7251 – Environmental Biological Processes
CIVE 7255 – Environmental Physical/Chemical Processes
CIVE 7382 – Advanced Traffic Control and Simulation

The full list of Required and Restrictive Electives for Data and Systems can be found here.

Geotechnical/Geoenvironmental Concentration

Required Core Courses

CIVE 7302 – Advanced Foundation Engineering

Electives

CIVE 5300 and 5301 – Environmental Engineering Laboratory + Lab
CIVE 5536 – Hydrologic and Hydraulic Design
CIVE 7240 – Construction Equipment and Modeling
CIVE 7251 – Environmental Biological Processes

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

Structures Concentration

Required Core Courses

Restricted Electives

CIVE 5522 – Structural Systems Modeling
CIVE 7350 – Behavior of Concrete Structures
CIVE 7354 – Wind Engineering
CIVE 7388 – Special Topics in Civil Engineering (Dynamics and Control of Infrastructure Systems)

Other Electives
CIVE 5520 – Structural Systems
CIVE 5525 – Prestressed Concrete Design
CIVE 7302 – Advanced Foundation Engineering
SBSY 5200 – Sustainable Engineering Systems for Buildings

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
- CIVE 7385 – Public Transportation

The full list of Required and Restrictive Electives for Transportation 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 7251 – Environmental Biological Processes
- CIVE 7281 – Coastal and Nearshore Hydrodynamics

*Restricted Electives*
- CIVE 5261 – Dynamic Modeling for Environmental Investment and Policymaking
- CIVE 5300 and 5301 – Environmental Sampling and Analysis + Lab
- CIVE 5363 – Climate Science, Engineering Adaptation, and Policy
- CIVE 5536 – Hydrologic and Hydraulic Design
- CIVE 7100 – Time Series and Geospatial Data Sciences
- CIVE 7255 – Environmental Physical/Chemical Processes

*Other Electives*

The full list of Required and Restrictive Electives for Water, Environmental, and Coastal Systems is found here.

**MASTER’S IN ENVIRONMENTAL ENGINEERING**

*Required Core Courses*
CIVE 7251 – Environmental Biological Processes
CIVE 7255 – Environmental Physical/Chemical Processes

Restricted Electives
CIVE 5261 – Dynamic Modeling for Environmental Investment and Policymaking
CIVE 5300 and 5301 – Environmental Engineering Sampling and Analysis + Lab
CIVE 5363 – Climate Science, Engineering Adaptation, and Policy
CIVE 5536 – Hydrologic and Hydraulic Design

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

MASTER’S IN ENGINEERING AND PUBLIC POLICY

Sustainable Engineering and Systems Modeling
CIVE 5261 – Dynamic Modeling for Environmental Investment and Policymaking
CIVE 5363 – Climate Science, Engineering Adaptation, and Policy
CIVE 7100 – Time Series and Geospatial Data Sciences
ENSY 5100 – Hydropower
IE 6200 – Engineering Probability and Statistics
IE 7280 – Statistical Methods in Engineering
SBSY 5200 – Sustainable Engineering Systems for Buildings

Public Policy and Analysis
INSH 5301 – Introduction to Computational Statistics
INSH 6500 – Statistical Analysis
PPUA 6502 – Economic Analysis for Policy and Planning
PPUA 6506 – Techniques of Policy Analysis
PPUA 6509 – Techniques of Program Evaluation

Electives
CIVE 5281 – Coastal Dynamics and Design
CIVE 5300 and 5301 – Environmental Sampling and Analysis + Lab
EMGT 6225 – Economic Decision Making
ENVR 5210 – Environmental Planning
LPSC 7312 – Cities, Sustainability, and Climate Change
PHTH 5214 – Environmental Health
PHTH 5230 – Global Health
PPUA 5262 – Big Data for Cities
PPUA 5263 – Geographic Information Systems for Urban and Regional Policy
PPUA 5270 – Food Systems and Public Policy

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

MASTER’S IN SUSTAINABLE BUILDING SYSTEMS
**Required Core Courses**
- ARCH 5210 – Environmental Systems
- SBSY 5200 – Sustainable Engineering Systems for Buildings
- SBSY 5400 – Sustainable Building Systems Seminar (0 SH)

**Restricted Electives**
- CIVE 5221 – Construction Project Control and Organization (2 SH)
- CIVE 5231 – Alternative Project Delivery Systems in Construction (2 SH)
- SBSY 5300 – Information Systems for Integrated Project Delivery

**Other Electives**
- CIVE 7350 – Behavior of Concrete Structures

The full list of Required and Restrictive Electives for Infrastructure Resilience is found [here](https://registrar.northeastern.edu/article/new-registration-experience/).

**How do I register for classes?**

Please review the following links for instructions on how to register using your MyNEU account:

- Course Search Article: [https://registrar.northeastern.edu/article/new-registration-experience/](https://registrar.northeastern.edu/article/new-registration-experience/)
- Course Add/Drop Article: [https://registrar.northeastern.edu/article/drop-class/](https://registrar.northeastern.edu/article/drop-class/)

**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: support@husky.desk-mail.com. 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 here. 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
Associate Dean for Graduate Education
Office of the Dean
College of Engineering
Northeastern University

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