



Northeastern University

College of Engineering

Hello, and congratulations on your acceptance to the Electrical and Computer Engineering PhD program at Northeastern University! We are looking forward to having you join us.

As an incoming Fall 2023 student, there are some steps that you need to take before the semester starts. Please read this document thoroughly as it contains helpful information and can answer many of your questions before you begin your first semester. If you have any questions, please contact Peter Krafska (p.krafska@northeastern.edu)

Step 1: Confirm your Enrollment

Please confirm your enrollment at Northeastern University, as you will not be able to register for classes until you complete this step. To confirm your enrollment, log into your [electronic application account](#) and pay the enrollment deposit. If you have any questions, please contact Graduate Admissions at coe-gradadmissions@northeastern.edu.

Step 2: Know your faculty and administrative advisors

As a student in the Electrical and Computer Engineering program, you have a team of faculty and staff to assist you in your academic career in the Graduate School of Engineering. You will meet these faculty and staff members during your orientation and have the opportunity to ask them any questions you might have.

- **Dr. Masoud Salehi** (salehi@northeastern.edu)
Associate Chair for Graduate Programs
- **Peter Krafska** (p.krafska@northeastern.edu)
Assistant Director of Graduate Programs
- **Dr. Rachel Walsh-Peterson** (ra.walsh@northeastern.edu)
Electrical and Computer Engineering Co-op Advisor
- **Cydney Hodder** (c.hodder@northeastern.edu)
Electrical and Computer Engineering Co-op Advisor

Step 3: Course Registration

We strongly advise that incoming full-time students register for *only two courses*, and that incoming part-time students register for *only one course*. *Please Note: International students entering the United States will need to register for at least 8 semester hours. * We have provided our course recommendations to you below, listed according to your concentration and in order of preference. As these are recommendations, students can take courses in any order or other courses to fulfill their degree requirements. All courses listed include the CRN (Course Reference Number) that you should use in order to select the correct course.

CCSP (Communications, Control, and Signal Processing)

- EECE 5550 (CRN 13797; 19966): Mobile Robotics
- EECE 5552 (CRN 13546): Assistive Robotics
- EECE 7204 (CRN 13786): Applied Probability and Stochastic Processes
- EECE 7213 (CRN 19705): System Identification and Adaptive Control

CSYS (Computer Systems and Software)

- EECE 7205 (CRN 16091, 17702): Fundamentals of Computer Engineering
- EECE 5552 (CRN 13546): Assistive Robotics
- EECE 7352 (CRN 11814): Computer Architecture
- EECE 7368 (CRN 16704): High Level Design of Hardware/Software Systems

CNWS (Computer Networks and Security)

- EECE 7205 (CRN 33198): Fundamentals of Computer Engineering
- EECE 5641 (CRN 13544): Computer Networks and Security
- EECE 5641 (CRN 13544): Introduction to Software Security
- EECE 5155 (CRN 38670): Wireless Sensor Networks and the Internet of Things

CVLA (Computer Vision, Machine Learning, and Algorithms)

- EECE 7205 (CRN 16091, 17702): Fundamentals of Computer Engineering
- EECE 5550 (CRN 13797; 19966): Mobile Robotics
- EECE 7352 (CRN 11814): Computer Architecture
- EECE 5644 (CRN 15307, 12311): Introduction to Machine Learning and Pattern Recognition

HSMI (Hardware and Software for Machine Intelligence)

- EECE 7205 (CRN 16091, 17702): Fundamentals of Computer Engineering
- EECE 5550 (CRN 13797, 19966): Mobile Robotics
- EECE 7352 (CRN 11814): Computer Architecture
- EECE 5644 (CRN 15307, 12311): Introduction to Machine Learning and Pattern Recognition

ELPO (Electromagnetics, Plasma, and Optics)

- EECE 7203 (CRN 15150): Complex Variable Theory and Differential Equations
- EECE 5170 (CRN 19698): Introduction to Multiferroics Materials and Systems
- EECE 7202 (CRN 11341): Electromagnetic Theory 1 – V30
- EECE 7296 (CRN 17456): Electronic Materials

MSMD (Microsystems, Materials, and Devices)

- EECE 7245 (CRN 11803): Microwave Circuit Design for Wireless Communication – V30
- EECE 5698 (CRN 15149): ST: Biomedical Microsystems
- EECE 7250 (CRN 19708): Power Management Integrated Circuits
- EECE 7296 (CRN 17456): Electronic Materials

POWR (Power Systems)

- EECE 5670 (CRN 19700): Sustainable Energy, Materials, Conversion, Storage and Usage
- EECE 5682 (CRN 16696): Power Systems Analysis – V30
- EECE 5698 (CRN 19701): ST - Electric Vehicles
- EECE 7213 (CRN 19705): System Identification and Adaptive Control

Frequently Asked Questions

How do I get a me.Northeastern account?

After you confirm your enrollment, you will be able to log in to your [Student Hub](#) portal. If you have not set up your me.Northeastern account, log in to your [electronic application account](#) and look for instructions to do so.

How do I register for classes?

Visit the Registrar Office's [Registration Experience](#) page to learn how to search and register for courses using your Student Hub. Make sure to use the EECE subject code when searching for courses. The online registration system will allow you to add or drop courses. The deadline to add a class can be found through the [University's Academic Calendar](#). If you have any questions about course registration, please email your College of Engineering Academic Advisor (coe-ece-gradadvising@northeastern.edu).

What if I change my mind about a class?

You can use the online registration system to drop any course. The deadline can be found on the [University's Academic Calendar](#).

Can I sign up for the V35 online section of a course?

V35 (online) sections are reserved for part-time students or those who are on co-op. Full-time students cannot enroll in these sections.

I received a "Prerequisite and Test Score" error, but I have already taken the prerequisite course at another institution.

Northeastern's system does not automatically recognize courses from other institutions. You will need to submit a [Registration Override Request](#) attaching verification that you have met the pre-requisite requirements for the course. Please list Professor Masoud Salehi as the "Program Contact."

I received a "College" error when registering for a CS or CY course.

ECE students need to request permission from Khoury College in order to take a CS or CY course using the [Khoury Elective Form](#).

Is it too late to change my concentration or track?

You have until the first day of classes to request a change to your concentration or track (coursework or thesis) by emailing the COE Graduate Admissions Office (coe-gradadmissions@northeastern.edu).

Do I need to attend both the Graduate School of Engineering General Orientation and Program Orientation? What is the difference between these two orientations?

Yes! Please make sure to attend both the Graduate School of Engineering General Orientation and the Electrical and Computer Engineering Program Orientation sessions. These are two entirely different orientations and will provide you with very useful information that you need to have in order to perform well throughout your program. These sessions will provide you with an opportunity to ask questions and meet with your academic and co-op advisors and some of your fellow future classmates!

Do I need to register for the Introduction to Cooperative Education course?

Please note that registration for the Co-op course is not mandatory. This course is one of the requirements to become eligible for the Co-op Experience. Students interested in participating in a Co-op should plan to register for this course either in their first or second semester. You will have the opportunity to meet with a Co-op Advisor during your Program Orientation.

The ENCP 6100 course will be available in both Fall and Spring semesters. Please note that the CRNs (Course Reference Numbers) for the Co-op sections for Electrical and Computer Engineering are 12438 (PhD only), 14759 (MS only), 14760 (MS only) and 18141 (MS only) for Fall 2022. These sections can be found in the course registration system – please be sure to select “Engineering Cooperative Ed” in the subject field.

What should I do if my course is full?

Enrollments are always shifting as students get co-ops or change their course registrations. If a seat isn't available in your preferred class right away, you can add yourself to the [course waitlist](#) using the online registration system.

Will I get a bill by registering for courses?

Yes, 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 refer to the [Billing & Payments](#) webpage of the Student Financial Services office.

What if I have questions regarding choosing courses or course registration?

You will have the opportunity to have your questions answered during or after your department orientation.

What if I have another question that is not answered here?

Please contact Peter Krafka or save any additional questions for the Graduate School of Engineering General Orientation and Program Orientation sessions.

We look forward to welcoming you to the Graduate School of Engineering!