

Congratulations on your acceptance to the Information Systems program at Northeastern University – Silicon Valley!

Please remember to confirm your enrollment at Northeastern. You will not be able to register for classes (information below) until you confirm enrollment. You can confirm your enrollment by [logging into your application account](#) and paying the enrollment deposit. If you have any questions regarding this process, please reach out through the [Graduate Admissions Support Center](#).

As an Information Systems student you are **required to complete INFO 5100, Application Engineering Development, in your first term**. This is the only required course in the Information Systems program and it is an important building block for all of your subsequent courses. Your second course will be the first elective course in your program. We have several different elective options for our first year students that will help you develop the skills you will need to be successful throughout the rest of your program.

Professor Kal Bugarra, the Director of the Information Systems program and your Academic Advisor, Megan Sykes, have created the following advising guide for you to refer to as you choose your courses for this Fall.

INFO 5100 (required), Application Engineering and Development: Students will learn innovative software programming techniques that will enable them to properly design and build any kind of application quickly. Through hands-on weekly lab sessions, students practice the development of applications as an assembly of components. Object-Oriented techniques for building business architectures that map to software applications will be introduced. You will learn how to master ways of taking vague requirements and turn them into systems of ecosystem scale. This class was designed to meet the needs of engineering students with a limited programming background. Students who do have a programming background will learn how to design and architect software the right way. This class with its emphasis on solid design of socio-technical systems is the corner stone of what we do in IS.

Sections Available:

Saturdays 12:00 – 3:00 PM CRN 16846

INFO 5101 (required), Lab for INFO 5100: This is a required two-hour class session complementary to the main lectures of INFO 5100.

Sections Available:

TBD CRN 16847

INFO 6205, Program Structure and Algorithms: This class is recommended for students who have had programming experience before but lack the algorithmic approach to solving complex programming challenges. The class covers all kinds of data structures from stacks, queues, trees, graphs, and algorithmic performance complexity. In addition, the class covers various problem solving techniques such as divide and conquer, dynamic programming, randomized and

greedy algorithms, backtrack search, etc. After the completion of this class you will be in a position of solve any programming problems. Though this class is optional, is highly recommended for students aiming to be software developers. **There is a lot of technical work involved here, so it will be a challenge along with the Application Engineering class. Students with a strong technical background may wish to take up this challenging opportunity right away.**

Sections Available:

Sunday 9:00 AM – 12:00 PM CRN 16896

INFO 6105, Data Science Engineering Methods & Tools: This class is for students planning to build a career in engineering machine learning and data science applications. The class covers the fundamentals of probability and statistics, data analysis and engineering, classification and clustering techniques, statistical inferencing, machine learning methods and tools. In a step by step manner, students will learn how to code in and make extensive use of the python programming language. Minimum expertise in programming is required to take this class. Though very demanding, this class is a good fit with the Application Engineering class for students with prior development experience.

Sections Available:

Tuesday 10:00 AM -1:00 PM CRN 18796

INFO 6215, Business Analysis & Information Engineering: Covers computer information systems and the decision-making process, determination of information requirements, system development life cycle, and system modeling and analysis. Uses a hands-on approach to introduce the student to software engineering methodologies and practices, business requirements specification, business process design, model-driven object-oriented design, software development, and maintenance. Emphasizes the effective leverage of the Unified Modeling Language (UML) to transform business issues and objectives to concrete software solutions that meet business needs and usability and user interface design as critical elements of a successful software engineering engagement.

Sections Available:

Sunday 1:00 PM – 4:00 PM CRN 18532

INFO 7500, Cryptocurrency & Smart Contract Engineering: This class is for students planning to build a career in Blockchain technology. The class covers the fundamentals cryptography, Bitcoin, crypto-currency. Minimum expertise in programming is required to take this class. Though very demanding, this class is a good fit with the Application Engineering class for students with prior development experience. **If you wish to take this class, please reach out to your Academic Advisor, Megan Sykes, for additional permission.*

Sections Available:

Saturday 9:00 AM – 12:00 PM CRN 16849

ENCP 6000, Career Management for Engineers: Designed to introduce engineering students to cooperative education program and to maximize their learning by helping them become more intentional about learning in co-op and in the transfer of that knowledge and experience to and

from their academic program and throughout their entire careers. This course is necessary to be eligible for co-op; this course does not count toward degree requirements.

Sections Available:

Online CRN 18340

Frequently Asked Questions

How do I register?:

If you need help navigating to your registration worksheet on your MyNEU account please watch the following webinars for instructions on how to register using your MyNEU account:

◆ New Registration Experience: <https://registrar.northeastern.edu/article/new-registration-experience/>

If you need individual help, please feel free to contact your Academic Advisor: Megan Sykes (m.sykes@northeastern.edu)

What if I already registered for classes?: Please drop them immediately, unless they are the courses listed above. As a first term student you can only take the sections of the classes listed above. If you are registered in a section whose CRN number does not match with a number above you are in the wrong section.

What if I do not get the elective I wanted?: If your first preference fills, please sign up for your second preference (and so on). The schedule is dynamic and students will continue to change their registrations up until the start of the term so there is still an opportunity for you to get into your first choice elective this Fall. Please make sure you are always registered for **8 SH** if you are a full time student.

Can I take an elective other than the ones listed above?: No. These classes were chosen because they are appropriate for first term students. Please refer to the advising guide to select the class most relevant to your interests.

Meeting with Professor Bugarra: You will have an opportunity to meet with your Academic Advisor, Megan Sykes, at Orientation. Professor Bugarra, the Director of the Information Systems program will be making a visit to Silicon Valley at the end of September and you will have the opportunity to meet with him then.

Can I skip the Application Engineering class (INFO 5100) and take it later?:

No, you must take INFO 5100 this Fall. The class is essential for advancing yourself through the program and engaging in a successful co-op experience.

Am I allowed to take three courses?: No, Information Systems students are limited to two courses each term. Based on feedback from our students we found that three courses were too demanding, especially in terms of final exams and projects. All of our courses require projects that count as much as 30% of your final grade and it is extremely hard to complete three of these a term. No exceptions to this policy will be considered until after your first year.

Can I take courses from other departments?: The only other department Information Systems students are allowed to take classes from is CSYE (Computer Systems Engineering). CSYE is a sister program to IS and is being repositioned to focus exclusively on big-data technologies and programming platforms. Courses such as java, multi-threading, managing big-data projects, advanced big-data programming, as well as Scala/Spark programming will be available to IS students after your first term in the program.

Can I transfer credit from other universities?: No. Professor Bugarra firmly believes that all 32SH should be taken within the program at Northeastern University to uphold the integrity and continuity of the program.

What is the duration of the Information Systems Program?: You are required to take eight courses, for a total of 32 credits. The program takes a minimum of three semesters to complete. The typical student takes 2.5 years to complete the program, which includes an eight month Co-op.

Is there funding or Teaching Assistant jobs available for first year students?: Unfortunately, there are no funding options in your first year. TA positions are filled by second year students only. You are expected to be fully dedicated to achieving academic success in the first year of the program.

Am I required to bring a laptop?: Yes. You must bring a high-quality laptop with a minimum of 8 GB memory AND a strong (4 hour) batter life- this is **required** for the Application Engineering course.

Am I eligible for Co-op?: You are not eligible for co-op the first two semesters of your program, during which your focus will be strictly academic. You are allowed to begin your first co-op after the Spring semester ends. During your last semester of study (in your second year), you must be fully on campus as a full-time student, even if you are eligible to be on co-op. According to government rules and regulations, co-op is an educational opportunity to strengthen your engineering skills --not a job pursuit.

How do I register for the Co-op course?: One of the requirements to becoming eligible to go on co-op is to take ENCP 6000, Career Management for Engineers. The registration information for this course is listed above.

How long can I go on Co-op?: Co-ops are a minimum of four months and a maximum of eight months.

Will I get a bill from registering?: 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 contact the Student Financial Services office directly: <http://www.northeastern.edu/financialaid/contact/>.

How do I get a MyNEU account?: After you confirm your enrollment, you will be able to utilize 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

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

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

Sincerely,

Graduate School of Engineering
Northeastern University