Congratulations on your acceptance to the Information Systems – Bridge Admissions Pathway program at Northeastern University’s Graduate School of Engineering!

As an incoming Spring 2022 student, there are some steps that you need to take before the Spring semester starts. **Please read this document thoroughly as it contains helpful information and can answer many of your questions before you start your first semester in your master’s program.**

**Step 1: Confirm your enrollment.**
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 to the Graduate Admissions team. You may contact them at coe-gradadmissions@northeastern.edu.

**Step 2: Know your faculty advisor and administrative contacts.**

Professor Kal Bugrara  
Program Director, Information Systems - Bridge

Sam Casey, Program Manager  
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**Step 3: Complete your course registration.**
As an IS-Bridge student, you are **required to complete INFO 5001: Application Modeling and Design, and DAMG 6105: Data Science Engineering with Python, in your first term.** These classes are an important building block for all of your subsequent courses. After completion of these conditional courses, you will be prepared to take the remaining courses in the Information Systems program in future semesters.

Professor Bugrara has created the following advising guide for you to refer to as you choose your courses for this Spring.
INFO 5001: Application Modeling and Design
This class explores innovative design and programming techniques to build significant business applications with speed and complexity. Students will learn the process of systematically combining UX techniques, business processes, and complex data models to create applications that are user-friendly and meet business needs. You will explore the object-oriented paradigm, visual user interface design principles, programming languages, and productivity tools. Practice social-technical software engineering methods and tools to solve real-world problems. This is a required course for IS Bridge students.

Sections Available:
Section 01: Tuesday 12:00-1:40 PM & Friday 6:00-7:40 PM
CRN 35490 (Livecast Instructional Method)

DAMG 6105: Data Science Engineering with Python
This class studies the Python programming language with data science as the application domain and offers students an opportunity to learn how to perform complex numerical calculations, fixed data types, space efficiency, and vector manipulations. The class covers tools and techniques for manipulating tables, spreadsheets, group and pivot tables involving extremely large data sets, large multidimensional arrays and matrices and the high-level mathematical functions to operate on these arrays. Students will study how to use Python to manipulate the classic math and science algorithms. Includes higher-level classes for manipulating and visualizing data. The course applies tools and techniques to classical data science using cases such as time series forecasting, social network analysis, text analytics, and big data processing.

Sections Available:
Section 01: Tuesday & Friday 3:25-5:05 PM
CRN 38542

Frequently Asked Questions

How do I register?
Please enter the CRN numbers listed above directly into your registration worksheet. In some instances, these sections may not be available to view online as they are reserved for first-term students only. In these cases, you will not be able to register for these classes using the search classes feature and MUST enter
the CRNs directly. If you need help navigating to your registration worksheet on your my.Northeastern account please visit the Registrar’s website for instructions.

**What if I already registered for classes?**
Please drop them immediately--unless they are the courses listed above. **As a first-term student, you should only take the sections of the classes listed above.** Please make sure you are always registered for 8 SH if you are a full-time student.

**Can I take an elective other than those 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.

**How do I meet with Professor Bugrara?**
You will have an opportunity to meet with Professor Bugrara, the Director of the Information Systems program, at orientation before classes start.

**Can I skip the Application Modeling class (INFO 5001) or Data Science-Python class (DAMG 6105) and take it later?**
No, you must take INFO 5001 and DAMG 6105 this Spring. These classes are 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 courses require projects that count as much as 30% of your final grade and it is extremely hard to complete three of these in one term. **No exceptions to this policy will be considered until after your first year.**

**Can I take courses from other departments?**
The only departments IS-Bridge students are allowed to take classes from are CSYE (Software Engineering Systems), DAMG (Data Architecture & Management), and INFO (Information Systems).

**Can I transfer credit from other universities?**
No. Professor Bugrara firmly believes that all 36SH 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 - Bridge Program?
You are required to take a total of 36 credits. The program takes a minimum of four semesters to complete.

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 (four-hour) batter life. This is required for the Application Engineering course.

Am I eligible for co-op?
IS Bridge Pathway students are eligible to participate in the co-op program once all eligibility requirements are met.

An MSIS Bridge student is eligible for co-op when*:
- They have completed 20SH of qualifying coursework
- First Semester: Students must complete INFO 5001 (4SH) and DAMG 6105 (4SH) in their first semester, as they are known as the conditional courses for the pathway
- Second Semester: Students must complete INFO 5100 (4SH) and an elective of their choosing (4SH)
- Third Semester: Students must enroll in 1-2 electives of their choosing (4SH-8SH) depending on their Visa requirements as applicable
*The above outlines what a student’s course work may look like when entering via the MSIS Bridge pathway.

Students must complete INFO 5100 and 3 electives of their choosing to be eligible for co-op, as INFO 5001 does not count towards eligible credits for co-op. Students who have completed 16SH (i.e., four courses) that include INFO 5001 are not eligible yet for co-op as they only have completed 12 qualified semester hours (SH). If students have any questions, please direct them to MGENCop@northeastern.edu.

How do I register for the co-op course?
One of the requirements for co-op eligibility is passing ENCP 6000, Career Management for Engineers. You are able to register for this course after your first semester of the program (completing INFO 5001 (4SH) and DAMG 6105...
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 my.Northeastern account?
If you have not set up your my.Northeastern account, please follow the instructions here.

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!