



# Northeastern University

## College of Engineering

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

As an incoming Full Summer 2021 student, there are some steps that you need to take before the Summer 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.**

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### **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](mailto: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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Erin Macri, Administrative Assistant

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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 INFO 6101: Data Science Engineering with Python, in your first term** (INFO 6101 will be allowed as a substitute course for INFO 6215). 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 Summer. **Please note that any class times listed means the class will have a synchronous lecture at that time, in addition**



to a recorded lecture.

**INFO 5001 (required): 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 & Friday 11:40 AM - 1:20 PM

**CRN 51758 (traditional, full summer)**

**INFO 6101: Data Science Engineering with Python**

The course studies the Python programming language with data science as the application domain. Offers students an opportunity to learn how to perform complex numerical calculations, fixed data types, space efficiency, and vector manipulations. Covers tools and techniques for manipulating tables, spreadsheets, and group and pivot tables involving extremely large data sets. Covers large multidimensional arrays and matrices and the high-level mathematical functions to operate on these arrays. Studies how to use Python to manipulate the classic math and science algorithms. Analyzes helper functions such as linear and nonlinear regression, integration, Fourier transformations, numerical optimization, etc. Includes higher-level classes for manipulating and visualizing data. 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: **ONLINE (full summer)**

**CRN 52068**

## Frequently Asked Questions

**How do I register?**

Please enter the CRN numbers listed above directly into your registration worksheet. If you need help navigating to your registration worksheet on your



## Northeastern University College of Engineering

[my.Northeastern](#) account please watch the following webinar for instructions on how to register using your [my.Northeastern](#) account:

### [General Registration 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 Engineering with Python class (INFO 6101) and take it later?**

No, you must take INFO 5001 and INFO 6101 this Summer. 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 other department Information Systems (IS) students can 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.



## Northeastern University College of Engineering

### **Can I transfer credit from other universities?**

No. Professor Bugrara firmly believes that all 36 SH 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?**

You are not eligible for co-op the first two semesters of your program, during which your focus will be strictly academic. 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. You can register for this course just as you do with your academic courses, but you need to make sure that you register for a section only for IS students. You can see this information in the course description on your registration portal under "Program Restrictions."

### **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/>.



Northeastern University  
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**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!***