



Northeastern University

College of Engineering

Congratulations on your acceptance to the Master of Science (MS)
Data Architecture and Management program at Northeastern
University's Graduate School of Engineering!

As an incoming Spring 2024 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 at coe-gradadmissions@northeastern.edu.

Step 2: Know your faculty advisors and administrative contacts.

[Professor Maricla Pirozzi](#)

Program Director, Data Architecture & Management, and Information Systems – Bridge

[Professor Kal Bugarra](#)

Program Director, Information Systems

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Northeastern University College of Engineering

Step 3: Complete your course registration.

As a Data Architecture and Management student, you have 4 required courses to complete during the duration of your program in order to earn your degree. These courses are *DAMG 6105: Data Science Engineering with Python*, *DAMG 6210: Data Management and Database Design*, *DAMG 7250: Big Data Architecture and Governance*, and *DAMG 7370: Designing Advanced Data Architectures for Business Intelligence*. **DAMG 6105 and DAMG 6210 are mandatory courses for the Spring semester. Elective options will be available for you to take in future semesters once you complete these courses.** The Spring classes will help first-year students develop the skills you will need to be successful throughout the rest of your program.

Professor Maricla Pirozzi, the Director of the Data Architecture & Management program, and your Academic Advisor, have created the following advising guide for you to refer to as you choose your courses for this Spring. **Please register for Boston sessions of the courses.** You will not be able to take courses from other campuses. Please note class information is subject to change.

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 35191



Northeastern University College of Engineering

DAMG 6210: Data Management and Database Design

For the student who has no background in databases and wants to know what is involved in the design and programming of databases and wants to maximize technical skills. A good foundation for those who want to focus on data management, business intelligence, data science, etc. or who want to make these areas their career objectives.

Sections Available:

Section 01: Monday 6:00 – 9:30 PM
CRN 35194

Section 02: Wednesday 6:00 – 9:30 PM
CRN 35195

Section 05: Thursday 6:00 – 9:30 PM
CRN 35198

Section 06: Saturday 2:30 – 6:00 PM
CRN 35199

Frequently Asked Questions

In addition to the items outlined below, please visit the [MGEN Frequently Asked Questions](#) page for further guidance.

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 [MyNortheastern](#) account, please click on the following link for instructions on how to register using your MyNortheastern account:

[**General Registration Instructions**](#)

*If you continue to encounter issues registering, please contact Graduate Student Services (coe-mgen-gradadvising@northeastern.edu)

How do I get a MyNortheastern account?

If you have not set up your MyNortheastern account, please refer to the following link on [**How do I claim my student account.**](#)



Northeastern University College of Engineering

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.** If you are registered in a section whose CRN number does not match with a number above, you are in the wrong section. Please make sure you are always registered for **8 SH** if you are a full-time student.

Can I take a course other than the ones listed above?

No. These classes were chosen because they are appropriate for first-term students.

How do I meet with Professor Pirozzi?

You will have an opportunity to meet with Professor Pirozzi, the Director of the Data Architecture and Management program, at orientation before classes start.

Am I allowed to take three courses?

No, Data Architecture and Management 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 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 departments DAMG students can take courses from are DAMG (Data Architecture and Management), INFO (Information Systems), CSYE (Software Engineering Systems), and TELE (Telecommunication Systems).

Can I transfer credit from other universities?

No. Professor Pirozzi 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 Data Architecture and Management Program?

You are required to take eight courses for a total of 32 credits. The program takes a minimum of four 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



Northeastern University College of Engineering

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) battery life -- this is required.

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 for DAMG students. You can see this information in the course description on your registration portal under "Program Restrictions."

The **ENCP 6000: Career Management for Engineers** course is required to be eligible for co-op and to obtain access to Northeastern's co-op job platform, to search for co-op positions. Please see the suggested registration information below.

For more details, the Graduate Co-op Eligibility and Requirements can be found [HERE](#).

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 the mode of payment or billing, please contact the Student Financial Services Office at studentaccounts@northeastern.edu. Please do not contact faculty members or the registrar's office regarding tuition payment or billing. Additional information is available on their website at <http://www.northeastern.edu/financialaid/contact/>.



Northeastern University
College of Engineering

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!