Analytics, MPS (Portland)

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# Analytics, MPS (Portland)

With the proliferation of data across all sectors of the global economy, there is an immediate need for individuals to be knowledgeable in how to harness this data for continuous analysis and study. This spectrum spans from commercial to nonprofit, from higher education to government, and is constantly expanding with new sectors as data mining becomes the standard for knowledge gathering in the digital age.

The Master of Professional Studies in Analytics helps to meet the demand from employers with a graduate program that provides students with an end-to-end analytics education through a core curriculum with integrated experiential learning opportunities. The program is designed to prepare students with a deep understanding of the mechanics of working with data (i.e., its collection, modeling, and structuring), along with the capacity to identify and communicate data-driven insights that ultimately influence decisions.

Not only will students graduate with a portfolio of work samples that demonstrate their range and depth of skill, they will be part of a larger network of analytics professionals who will serve them now and in the future.

- Build portfolios of real-world projects demonstrating competency with key technologies, visualization and communication techniques, and the
  ability to translate information into recommended actions.
- · Gain a core analytical skill set upon which to layer more specialized technical skill sets or industry-specific applications.
- · Develop a relationship to industry leaders and peers so that you may leverage your Northeastern education long after your formal education ends.
- Choose from a host of flexible programming options—all of which share an industry-defined core curriculum and a required, credit-bearing
  experiential requirement.
- · Anticipate and contribute to the future direction of data analytics.

## **Program Requirements**

Complete all courses and requirements listed below unless otherwise indicated.

## **Required Courses**

Code	Title	Hours
ALY 6000	Introduction to Analytics	3
ALY 6010	Probability Theory and Introductory Statistics	3
ALY 6015	Intermediate Analytics	3
ALY 6050	Introduction to Enterprise Analytics	3
ALY 6070	Communication and Visualization for Data Analytics	3
ITC 6000	Database Management Systems	3

# **Experiential Learning Course**

Code	Title	Hours
ALY 6080	Integrated Experiential Learning	3

The remaining quarter hours of the program may be completed by a combination of completing a concentration and additional electives or selecting any courses listed in the concentrations and elective (p. 2) list.

### **Concentrations**

- Applied Machine Intelligence (https://catalog.northeastern.edu/graduate/professional-studies/masters-degree-programs/analytics-mps/#Applied %20Machine%20Intelligence)
- Evidence-Based Management (https://catalog.northeastern.edu/graduate/professional-studies/masters-degree-programs/analytics-mps/ #Evidence-Based%20Management)
- Statistical Modeling (https://catalog.northeastern.edu/graduate/professional-studies/masters-degree-programs/analytics-mps/#Statistical %20Modeling)

# **Program Credit/GPA Requirements**

45 total quarter hours required Minimum 3.000 GPA required

APPLIED MACHINE INTELLIGENCE		
Code	Title	Hours
ALY 6040	Data Mining Applications	3
ALY 6110	Data Management and Big Data	3

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Leading Teams Strategically in a Global Environment

Ethical Leadership Project Risk Management

Project Evaluation and Assessment

Project Stakeholder Management

LDR 6110

LDR 6135

PJM 6015 PJM 6125

PJM 6180