

# Informatics, MPS (Toronto)

A rapidly evolving area, informatics is increasingly used to solve today's problems through IT innovations across many industries, including healthcare, business consulting, education, finance, and social media. This master's degree attracts students and working professionals with a diverse background to learn and improve IT technical and management skills, highlighted by our strengthened curriculum on information security management, as well as cloud computing application and management. Students also have the opportunity to acquire technical training in data analytics, user-centered design and web development, and managing technical projects.

## Program Requirements

Complete all courses and requirements listed below unless otherwise indicated.

## Required Courses

Code	Title	Hours
ITC 6000	Database Management Systems	3
ITC 6010	Information Technology Strategy and Governance	3
ITC 6020	Information Systems Design and Development	3
ITC 6035	Information Technology Project Management	3
ITC 6400	Foundations of Informatics	3
<b>Capstone and Experiential Learning</b>		
ITC 6040	Informatics Capstone	3
INT 6940	Experiential Learning Projects for Professionals	3

## Concentration and Electives

The remaining quarter hours required for this program may be completed by a combination of completing one concentration and any additional courses from any of the concentrations or by selecting any courses listed in the concentrations lists.

- Analytics (<https://catalog.northeastern.edu/graduate/professional-studies/masters-degree-programs/informatics-mps/#analytics>)
- Cloud Computing Application and Management (<https://catalog.northeastern.edu/graduate/professional-studies/masters-degree-programs/informatics-mps/#cloud>)
- Information Security Management (<https://catalog.northeastern.edu/graduate/professional-studies/masters-degree-programs/informatics-mps/#info>)
- Leading and Managing Technical Projects (<https://catalog.northeastern.edu/graduate/professional-studies/masters-degree-programs/informatics-mps/#tech>)

## Program Credit/GPA Requirements

45 total quarter hours required

Minimum 3.000 GPA required

### CONCENTRATION IN ANALYTICS

Code	Title	Hours
ALY 6000	Introduction to Analytics	3
ALY 6010	Probability Theory and Introductory Statistics	3
ALY 6020	Predictive Analytics	3
ALY 6040	Data Mining Applications	3
ALY 6070	Communication and Visualization for Data Analytics	3
Complete one of the following:		3
ALY 6015	Intermediate Analytics	
ALY 6030	Data Warehousing and SQL	
ALY 6110	Data Management and Big Data	

### CONCENTRATION IN CLOUD COMPUTING APPLICATION AND MANAGEMENT

Code	Title	Hours
ITC 6015	Enterprise Information Architecture	3
ITC 6420	Introduction to Cloud Computing Applications and Management	3
ITC 6520	Network Protection and Cloud Security	3

ITC 6460	Cloud Analytics	3
ITC 6450	Advanced Cloud Computing Applications and Management	3
Complete one of the following:		3-4
ITC 6480	Amazon Web Service (AWS) Cloud Architecting	
ITC 6355	Web Application Design and Development	

**CONCENTRATION IN INFORMATION SECURITY MANAGEMENT**

Code	Title	Hours
ITC 6300	Foundations of Information Security	3
ITC 6305	IT Infrastructure (Systems, Networks, Telecom)	3
ITC 6315	Information Security Risk Management	3
ITC 6520	Network Protection and Cloud Security	3
ITC 6530	Security Analytics	3
Complete one of the following:		3
ITC 6330	CISSP Preparation	
ITC 6082	Network Protection	

**CONCENTRATION IN LEADING AND MANAGING TECHNICAL PROJECTS**

Code	Title	Hours
PJM 6000	Project Management Practices	3
PJM 6205	Leading and Managing Technical Projects	3
PJM 6210	Communication Skills for Project Managers	3
PJM 6215	Leading Remote Project Teams	3
PJM 6810	Principles of Agile Project Management	3
PJM 6825	Agile Lean Product Development	3