Computer Science, MSCS (Boston)

Northeastern University's Master of Science in Computer Science is designed to prepare students for a variety of careers in computer science. The program combines both computing and important application domains—enabling you to increase your broad-based knowledge in the field while allowing you to delve deeper in specific areas through elective courses.

MS Thesis Committee

The MS thesis committee must satisfy the following conditions:

- 1. A total of three members, including the advisor.
- 2. Two members from Khoury College of Computer Sciences (or affiliated to Khoury).
- 3. At least one member who is at "arm's length" from the particular work in the thesis. This means that there should be at least one member who isn't a co-advisor on the thesis.
- 4. External members are allowed but not required.

More members (internal or external) can be added as readers to the committee, so long as the above minimum requirements are fulfilled.

Gordon Institute of Engineering Leadership

For students who concurrently enroll in the Graduate Certificate in Engineering Leadership, 8 semester hours of the GIEL certificate coursework may be applied to the elective requirements of the program.

Program Requirements

Complete all courses and requirements listed below unless otherwise indicated.

Students should refer to the course numbering table for graduate course leveling (https://catalog.northeastern.edu/graduate/academic-policies-procedures/course-numbering/).

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	CS 5610	•	
CS 5850 Building Game Engines	CS 5700		
	CS 5850	Building Game Engines	

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CS 6410	Compilers
CS 6510	Advanced Software Development
CS 6620	Fundamentals of Cloud Computing
CS 6650	Building Scalable Distributed Systems
Theory and Security	
CS 6760	Privacy, Security, and Usability
CS 7805	Complexity Theory
CY 5770	Software Vulnerabilities and Security
CY 6740	Network Security

Electives

Code	Title	Hours
Complete 12 semester hours from the following:		
CS 5097	Mixed Reality	
CS 5100 to CS 7980		
CS 7990	Thesis	
CS 8674	Master's Project	
CS 8982	Readings	
CY 5001	Cybersecurity: Technologies, Threats, and Defenses	
CY 5010	Cybersecurity Principles and Practices	
CY 5130	Computer System Security	
CY 5210	Information System Forensics	
CY 6120	Software Security Practices	
DS 5110	Essentials of Data Science	
DS 5230	Unsupervised Machine Learning and Data Mining	

Program Credit/GPA Requirements

32 total semester hours required Minimum 3.000 GPA required