WHAT OUR ALUMNI ARE SAYING

"The faculty at the DeMatteis School prepared me with the technical aptitude, hands-on experience, and connections I needed to pursue an exciting career at a top-tier technology company."

— Michael Cheng ’18
MS in Computer Science
Engineering Project Manager at Facebook

"Hofstra’s Master’s Program in Computer Science challenged me to think about how to strike a balance between learning from my own experiences and learning through the experiences of others. My professors encouraged me to explore current trends in the field of computer science and to also explore and pursue my own interests."

— Nicholas Kumia ’18
MS in Computer Science
Computer Scientist at Naval Air Systems Command (NAVAIR)

For information about the MS in Computer Science program, please contact:

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Hofstra University is an EO/AA/ADA educator and employer.
About the Program
The Master of Science in Computer Science program develops highly qualified professionals capable of adapting with ease to the dynamic field of computing, and prepares students interested in pursuing doctoral studies in computer science or related fields. The program provides a strong foundation and breadth in computer science, and students may choose an area of specialization.

Elective courses are offered in cutting-edge areas such as data mining and machine learning; networks and network security; distributed, parallel, and mobile computing; computer graphics and computer vision; and artificial intelligence. Courses are designed to help students choose an area of specialization and develop expertise in that area. The program ends with a capstone experience, which may be in the form of an independent project or a master’s thesis.

Program Requirements (30 s.h.)
The Master of Science in Computer Science requires the satisfactory completion of a 30-semester-hour program, including either a 6-semester-hour thesis (CSC 301 and 302) or a 3-semester-hour capstone project (CSC 300 or 303). Full-time students can complete the program in four semesters. Part-time students usually complete the program in six or seven semesters. At least 24 semester hours must be completed in-residence at Hofstra. A minimum 3.0 GPA with a grade of C or better in all courses is required.

Required Fundamental Courses (9 s.h.)
- CSC 204: Algorithm Design and Analysis, 3 s.h.
- CSC 252: Programming Language Concepts, 3 s.h.
- CSC 256: Advanced Operating Systems Design, 3 s.h.

Interested students may fulfill their elective requirements by taking courses from the following concentrations:

Concentrations (9 s.h.)

Web Engineering
- CSC 251: Software Project Management, 3 s.h.
- CSC 254: Database Design, 3 s.h.
- CSC 283: Web Application Development, 3 s.h.
- CSC 285: Mobile Device Programming, 3 s.h.

Networking and Security (Cybersecurity)
- CSC 203: Privacy in a Wired World, 3 s.h.
- CSC 215: Secure Systems, 3 s.h.
- CSC 284: Computer Communication Networks and Distributed Processing, 3 s.h.
- CSC 288: Network Security, 3 s.h.

Electives
Students may select elective courses, including up to two independent study/research courses (CSC 290 A-Z). For the complete list of graduate courses, see the course listings within the Graduate Studies Bulletin.

Required Capstone Experience
A student must have a thesis/project advisor and a thesis/project committee prior to registering for a thesis or a project. Both the thesis and the project include a written body of work and a presentation. A student defends a thesis at an individual one-hour presentation, whereas a project is detailed in a 15-minute presentation as part of a departmental colloquium (or a presentation is posted online and made available on the department website).

Admission Requirements
1. Completion of a bachelor’s degree from an accredited institution.
2. An undergraduate minimum grade point average of 3.0.
3. GRE Verbal, Quantitative, and Analytical Writing scores must be provided from an examination within the previous five years of the date of application.

Prerequisite Requirements
1. Discrete Mathematics
2. Programming Principles and Techniques
3. Algorithms and Data Structures
4. Computer Architecture
5. Operating Systems
6. Calculus II

Students may satisfy any or all of the listed prerequisites by completing equivalent courses at Hofstra University or an accredited institution.

Networking and Security (Cybersecurity)
With the permission of the graduate program director, eligible students may elect to sit for proficiency examinations. Applicants without undergraduate computer science degrees may be admitted as provisionally matriculated students if they meet all admission criteria except for the prerequisite courses. They may enroll in graduate courses if they meet individual course prerequisites and satisfy the general requirements before completing 12 semester hours of graduate study. This condition is automatically lifted as soon as the prerequisites or their equivalents are satisfactorily completed.