The Master of Science in Computer Science is designed to provide advanced education in this rapidly evolving and challenging discipline. It serves those students who wish to increase their professional competence for business, industry, and research and development laboratories, as well as those students who wish to enter careers in research and teaching.

DEGREE REQUIREMENTS

The Master of Science program in Computer Science requires 30 credits to complete the degree with at least a 3.0 GPA average (out of 4.0).

All students are required to complete the following three core courses:

- Advanced Operating Systems
- Algorithms and Information Structures
- Computer Systems Design  or  Parallel Computing

The remaining seven courses will be chosen from any of the following specialization areas, and/or a master's thesis or project.

Artificial Intelligence and Data Analytics

- Computer Graphics
- Artificial Intelligence and Knowledge Engineering
- Neural Networks and Pattern Recognition
- Natural Language Processing
- Machine Learning and Data Mining
- Digital Image Processing
- Digital Signal Processing
- Neural Networks and Deep Learning
- Graph-Based Analysis for Big Data in Social Networks

Cloud Computing and Software Engineering

- Software Engineering
- Compiler Construction
- Advanced Systems Programming
- Software Systems Analysis and Design
- Database Theory
- Computer Performance Evaluation
- Computer-aided Analysis and Design
- Management Information Systems
- Topics in System Simulation
- Parallel Computing
- High-speed LAN and WAN
- Fundamentals of Wireless Communications
- Intelligent Networks
- Cryptography

Cybersecurity and Networks

- Advanced Microcomputer Systems Design
- Quantitative Analysis of Computer Architecture
- Network Security
- Telecommunication Networks
- Cryptography
ADMISSION REQUIREMENTS

- Bachelor of Science in Computer Science or related area with a 3.0 GPA (out of 4.0) overall and in the major.
- Applicants must demonstrate knowledge in the following areas:
  - High-Level Programming Language(s)
  - Computer Architecture
  - Discrete Mathematics
  - Data Structures
  - Software Design
  - Digital Design
  - Operating Systems
  - Calculus
  - Probability or Algebra

APPLICATION PROCEDURES

Graduate Application:
The application must be completed online at www.csi.cuny.edu/graduatestudies.

Transcripts:
Applicants must request official transcripts from all post-secondary institutions attended. If you are currently enrolled in a post-secondary institution, have one transcript sent now and another sent when you complete the courses that you are taking. Applicants who have been enrolled at CSI do not need to request a CSI transcript; the Office of Recruitment and Admissions will obtain a copy.

Application Fee:
A $75.00 non-refundable application fee is required of all applicants. Please make your check or money order payable to the College of Staten Island. Veterans are exempt from paying the application fee. Veterans must provide proof of their Veteran/Military status in order to be waived from paying the application fee.

TOEFL or IELTS:
The TOEFL or IELTS exam is a requirement of students for whom English is a second language.

**Test of English as a Foreign Language (TOEFL):** Minimum required score is 79 (Internet). For additional information or to register for the exam, please visit the TOEFL website at www.ets.org. Our institutional code is 2778.

**International English Language Testing System (IELTS):** We will only accept the academic exam scores. The minimum required score is 6.5 (overall band). For additional information or to register for the exam, please visit the IELTS website at www.ielts.org.

All documents must be submitted to the Office of Recruitment and Admissions.

Mailing Address:
Office of Recruitment and Admissions, Graduate Unit
College of Staten Island, CUNY
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Staten Island, NY 10314

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