

Computer Science (MCompSci)

Graduate study in computer science is offered in the following areas: analysis of algorithms; artificial intelligence; automated reasoning; communication protocols; compilers; computational biology; computational complexity; computational visualization; computer architecture; computer graphics; computer networks; computer vision; cryptography; data mining; database management; distributed systems; fault-tolerant computing; formal methods; machine learning; mathematical software; mobile and ad hoc networks; natural language processing; neural networks; numerical analysis; operating systems; parallel programming; programming language design and implementation; randomized algorithms; real-time systems; robotics; scientific computing; secure computing; software construction from components; system modeling; theoretical computer science; and wireless networks. The Master of Science in Computer Science degree is STEM Designated Degree Programs, as identified by the Department of Homeland Security for purposes of the 24-month STEM optional practical training extension.

Graduate Handbook

Graduate handbook information is updated and maintained by each program. Graduate handbooks are available within each program's office and [online](#). Please contact the program with concerns or questions.

Admission

Most entering graduate students have degrees in computer science. Students with degrees in other areas may be considered for admission; if admitted, they may be required to take undergraduate courses in computer science, without credit toward a graduate degree, to satisfy background requirements.

Total hours required: 30

Requirements

On-Campus

The Department of Computer Science offers two on-campus options for the Master of Science in Computer Science degree program. The thesis option requires 30 semester hours of coursework, which includes six hours in the thesis course. The option without thesis requires 30 semester hours of coursework.

Online

The Department of Computer Science also offers the Master of Science in Computer Science degree in an online format. The thesis option requires 30 semester hours of coursework, which includes six hours in the thesis course. The option without thesis requires 30 semester hours of coursework. All courses required for program completion are offered in accordance with University policies that govern non-formula-funded (Option III) degree programs. The online program is primarily designed for working professionals with coursework designed to broaden and deepen their knowledge in the field.

Code	Title	Hours
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All students must also follow the requirements and policies below:

[Graduate Natural Sciences Requirements](#)

[Graduate University Requirements](#)