



M.S. in C.S. – Software and Security Engineering

The M.S. in Computer Science is a flexible graduate program that allows you to tailor your program of study to your interests. At least one course must be taken from any one of the following core computer science courses:

1. CS 510 Programming Languages
2. CS 520 Operating Systems
3. CS 561 Database Management Systems
4. CS 573 Fundamentals of Cybersecurity
5. CS 600 Advanced Algorithm Design

In addition, up to three courses may be taken outside of computer science.

Beyond these requirements, the program is designed to allow you the flexibility to combine interests, for example, in software engineering, security, databases and SOA, health informatics, Web application development, networks and embedded systems, and network and systems administration.

The MS/CS suggested concentration in Software and Security Engineering prepares you for the secure and reliable application of best practices and software technologies to deliver services on time and within budget. The security courses provide with a ground in cybersecurity fundamentals, privacy and forensics and information assurance.

For Further Information

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Core Courses

Software Engineering	SSW 540 Fund of Soft Eng
Cybersecurity	CS 573 Funds of Cybersecurity
	CS 578 Privacy
	CS 665 Cybersecurity Forensics
	CS 594 Enterprise Security and Information Assurance

Suggestions for Elective Courses

Software Engineering	SOC 521 Software Requirements
	SSW 533 Cost Est and Metrics
	SSW 565 Software Architecture
	SSW 567 Software Testing
	CS 548 Eng of Ent Soft Systems
Management	TM 675 Analyzing Tech Risks

Sample Study Plan*

	Year 1	Year 2
Fall	SSW 540 Fund of Soft Eng CS 573 Fund of Cybersecurity ¹	SSW 533 Cost Est and Metrics CS 665 Cyber Forensics ¹
Spring	CS 578 Privacy ¹ TM 675 Analyzing Technology Risks	SSW 567 Software Testing CS 594 Enterprise Security ¹
Summer	SOC 521 Software Requirements	CS 548 Eng of Ent Soft Systems

* On-campus classes. On-line courses are typically scheduled in off-semesters.

¹ Used towards a **Graduate Certificate in Enterprise Security and Information Assurance**.

