



M.S. in C.S. – Network and Systems Administration

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 Network and Systems Administration will give you the background to pursue a career in administering computer systems and networks. You will learn how to elicit requirements from computer users, and how to administer firewalls and intrusion detection systems. You will graduate with a MS in Computer Science and a Graduate Certificate in Network and Systems Administration.

For Further Information

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Core Courses

Computer Systems	CS 520 Operating Systems CS 666 Information Networks
Software Engineering	SSW 540 Fund of Soft Eng

Suggestions for Elective Courses

Computer Systems	CS 522 Mobile and Perv Comp CS 549 Distributed Systems CS 561 Database Mgt Systems CS 615 Systems Administration CS 669 Network Management
Software Engineering	SOC 521 Software Requirements SSW 565 Software Architecture
Cybersecurity	CS 573 Fund of Cybersecurity
Management	MIS 662 Legal Issues

Sample Study Plan*

	Year 1	Year 2
Fall	CS 520 Operating Systems** CS 666 Information Networks**	CS 548 Eng of Ent Software Systems CS 573 Fund of Cybersecurity
Spring	SSW 540 Funds of Soft Eng CS 669 Network Management**	CS 615 Systems Administration** MIS 662 Legal Issues
Summer	CS 561 Database Mgt Systems	SOC 521 Software Requirements

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

** These four courses may be used to obtain a **Graduate Certificate in Network and Systems Administration**.

