



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

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 Engineering and Databases prepares you for the reliable application of software and information technologies, particularly involving large databases, on time and within budget. The database courses provide you with fundamental skills in enterprise modeling and three-tier distributed applications, including Web services and SOA.

For Further Information

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Core Courses

Software Engineering SSW 540 Funds of Soft Eng
Databases CS 561 Database Mgt Systems

Suggestions for Elective Courses

Software Engineering SSW 533 Cost Est and Metrics
 SSW 565 Software Architecture
 SSW 567 Software Testing
 SOC 521 Software Requirements

Databases and SOA SOC 611 Web Fundamentals
 CS 513 Data Mining
 CS 546 Web Programming
 CS 548 Eng of Ent Soft Sys
 CS 562 Database Mgt Systems II
 CS 574 O-O Analysis and Design

Management MIS 662 Legal Issues

Sample Study Plan*

	Year 1	Year 2
Fall	CS 540 Funds of Soft Engineering CS 561 Database Mgt Systems ¹	CS 533 Cost Estimation ² CS 548 Eng of Ent Software Systems
Spring	CS 546 Web Programming ¹ CS 562 Database Mgt Systems II ¹	CS 513 Data Mining ¹ SSW 567 Software Testing
Summer	SSW 565 Software Architecture	SOC 521 Software Requirements

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

¹ Used towards a **Grad Cert in Database Management Systems**.

