



M.S. in C.S. – Databases and Service Oriented Architecture

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 Databases and Service Oriented Architecture will equip you with the skills set you need to develop database applications in the modern world of service oriented computing. Besides learning about databases and SOA, you will also acquire the skills needed to analyze client requirements, including user interface design and information architecture.

For Further Information

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Core Courses

Databases	CS 513 Data Mining CS 546 Web Programming CS 561 Database Mgt Systems CS 562 Database Mgt Systems II
Service Oriented Arch	CS 545 Human Comp Interaction CS 548 Eng of Ent Soft Systems CS 549 Distributed Systems SOC 611 Web Fundamentals

Suggestions for Elective Courses

Software Engineering	CS 574 O-O Analysis and Design SSW 540 Fund of Soft Eng SOC 521 Software Requirements
Management	MIS 662 Legal Issues

Sample Study Plan*

	Year 1	Year 2
Fall	CS 561 Database Mgt Systems ¹ SOC 611 Web Fundamentals ²	CS 548 Eng of Ent Software Systems ² CS 549 Distributed Systems ²
Spring	CS 545 HCI ² CS 562 Database Mgt Systems II ¹	CS 513 Data Mining ¹ SSW 540 Funds of Soft Eng
Summer	SOC 521 Software Reqts	CS 546 Web Programming ¹

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

¹ These courses may be used towards a **Graduate Certificate in Database Management Systems.**

² These courses may be used towards a **Graduate Certificate in Service Oriented Computing.**

