



M.S. in C.S. – Databases, Security and Privacy

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, Security and Privacy prepares you to build secure privacy-preserving database applications. Such applications may well be part of three-tier distributed applications, perhaps using Web services and service-oriented architecture (SOA). Both security and reliability will be important requirements of such applications.

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
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	CS 574 O-O Analysis and Design CS 548 Eng of Ent Soft Sys SSW 540 Funds of Soft Eng
Management	TM 675 Analyzing Tech Risks

Sample Study Plan*

	Year 1	Year 2
Fall	CS 561 Database Mgt Systems ¹ CS 573 Fund of Cybersecurity ²	CS 548 Enging of Enterprise Soft Sys SSW 540 Funds of Soft Eng
Spring	CS 513 Data Mining ¹ CS 562 Database Mgt Systems II ¹	CS 578 Privacy ² CS 594 Enterprise Security ²
Summer	CS 546 Web Programming ¹	CS 665 Cyber Forensics ²

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

¹ Used towards a **Graduate Cert in Database Mgt Systems.**

² Used towards a **Graduate Cert in Enterprise Security and Information Assurance.**

