



M.S. in C.S. – Web Application Development

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 concentration in Web Application Development will give you the background to develop Web applications, even if you do not have a background in information technology. If you have a weak IT background, you should also **consider the M.S. in Service Oriented Computing, an accelerated professional education program.** If your background is strong, consider the MS/CS concentration in Databases and SOA.

For Further Information

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Core Courses

Foundations	MA 502 Discrete Mathematics CS 590 Algorithms
Computer Science Web Programming	CS 561 Database Mgt Systems SOC 611 Web Fundamentals CS 546 Web Programming CS 564 Software Requirements CS 545 Human Comp Interaction

Suggestions for Elective Courses

Enterprise Computing	CS 548 Eng of Ent Software Sys CS 549 Distributed Systems
Data Mining, Privacy	CS 578 Privacy CS 513 Data Mining
Software Engineering	SSW 540 Fund of Quant Soft Eng
Cybersecurity	CS 573 Fund of Cybersecurity

Sample Study Plan*

	Year 1	Year 2
Fall	MA 502 Discrete Mathematics CS 590 Algorithms	SOC 611 Web Fundamentals CS 561 Database Mgt Systems
Spring	SSW 540 Funds of Quant Soft Eng CS 545 Human Comp Interaction	CS 513 Data Mining CS 578 Privacy
Summer	CS 564 Software Requirements	CS 546 Web Programming

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

