

## Computer Science and Information Systems (M.S.)

### Area I: Core Classes Requirement (Take four courses --12 credits required; the fifth course can count as an elective)

CSIS 501	Computer Networks and Security	(None)	3 cr	[]
CSIS 503	Mobile Computing	(None)	3 cr	[]
CSIS 521	Software Engineering	(None)	3 cr	[]
CSIS 566	Information Technology Strategy	(None)	3 cr	[]
CSIS 586	Cloud and Big Data Analytics	(None)	3 cr	[]

### Area II: Electives (12 credits required from the following three areas)

**Note:** Students from one concentration may be allowed to take course(s) from another concentration upon advisor's approval and satisfaction of course prerequisite(s).

#### 1. Computer Science Concentration (Must have undergrad prereqs of Calculus I or higher; Data Structures and Algor Analy)

CSIS 531	Computer Architecture	(CS 331 or equivalent)	3 cr	[]
CSIS 576	Computer Graphics	(CS 316 or equivalent)	3 cr	[]
CSIS 582	Artificial Intelligence and Expert Systems	(CS 316 or equivalent)	3 cr	[]
CSIS 621	Software Architecture and Design Patterns	(CSIS 521 or equivalent)	3 cr	[]
CSIS 662	Compiler Design and Implementation	(MATH 300; Automata Theory or equivalent)	3 cr	[]

#### 2. Information Systems Concentration

CMA 550	Experience Design	(None)	3 cr	[]
CSIS 633	Information Security and Privacy	(None)	3 cr	[]
HS 550	Medical Informatics for Health Management	(None)	3 cr	[]

#### 3. Additional Electives (A maximum of seven credits of the following may count toward electives)

ACCT 611	Financial Accounting Concepts	(Graduate Student status)	2 cr	[]
ACCT 612	Managerial Accounting	(ACCT 611)	2 cr	[]
CSIS 696	Internship	(Advisor Permission)	1- 3 cr	[]
CSIS 697	Special Topics	(Advisor Permission)	1- 3 cr	[]
ETD 515	Technology Leadership and Management	(None)	3 cr	[]
LS 615	Ethics in the Professions	(None)	3 cr	[]
RPW 520	Writing in Scientific & Technical Contexts	(None)	3 cr	[]

### Area III: Thesis or Course-Only Track (6 credits required)

#### 1. Thesis Track (6 credits required)

A total of six credit hours of research or project work under an assigned supervisor is required, culminating in a written thesis approved by the faculty supervisor. Only three credit hours of CSIS 671 is permitted in a semester.

CSIS 671	Thesis	(Advisor Permission)	3 cr	[]
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#### 2. Course-Only Track (6 credits required)

Students choosing not to pursue a thesis are considered course-only track students. Students in this track are required to take a minimum of six hours of additional elective courses and must meet with the program coordinator to discuss which elective courses fulfill this requirement.

### Legend:

Items in [ ] indicate semesters in which CSIS courses are offered  
Items in ( ) indicate the prerequisites to a specific course