

# Information Systems Security

The Information Systems Security (ISS) Major prepares students to be professionals who apply Information Systems to business problems in a secure and controlled environment. The ISS graduate provides a vital link between the business units and the information and computerized systems they need to be competitive in the information age. Graduates will also have the education required to enter graduate school in Information Systems.

Information Systems is a rapidly changing profession, and the Mount Mercy Computer Science program endeavors to teach, model, and demonstrate the most modern professional practices. Students will learn both the theory and practice of the profession, how to work in groups to complete large software projects, and appropriate ethical standards. Students with an Information Systems degree find excellent employment opportunities in almost all industries.

\* NOTE: Computer science courses taken seven or more years ago are subject to review by the department before awarding credit for a major or minor in computer science.

## Information Systems Security Major

### Required:

BA 250	Technology & Communication In Business	3
BN 204	Principles Of Management	3
BN 340	Management Information Systems	3
BN 377	Project Management	3
CS 203	Information Ethics	3
CS 326	Information Systems Analysis	3
CS 388	Database Systems	4
CS 422	IT Security and Risk Management	3
CS 425	IT Audit and Controls	3
MA 135	Basic Statistics	3

### Choose One of the Following: 4

CS 105	Fundamentals Of Computer Science	
CS 226	Programming in Visual Basic	

### Choose One of the Following: 4

CS 430	Senior Project: Management Information Systems	
CS 435	Senior Project: Computer Science	

### Choose One of the Following: 3-4

DS 101	Introduction to Data Science I	
MA 130	Finite Mathematics	
MA 132	Basic Mathematical Modeling	
MA 139	Pre-Calculus	
MA 164	Calculus I	

### Choose two electives with course code BA, BC, BK, BN, CS, or EC (or other approved course) 6

**Total Hours 48-49**

## Academic Requirements

A grade of C or above (C- does not count) is required in all courses in the major and their prerequisites.

## INFORMATION SYSTEMS SECURITY Minor

### Required:

BA 250	Technology & Communication In Business	3
BN 204	Principles Of Management	3
BN 340	Management Information Systems	3
CS 203	Information Ethics	3
CS 326	Information Systems Analysis	3
CS 388	Database Systems	4

### Choose One of the Following: 4

CS 105	Fundamentals Of Computer Science	
CS 226	Programming in Visual Basic	

### Choose One of the Following: 3

CS 422	IT Security and Risk Management	
CS 425	IT Audit and Controls	

**Total Hours 26**

The following is the typical sequence of courses required for the major\*:

### Freshman

Fall	Hours	Winter	Hours	Spring	Hours
MA 135		3 Domain		3 CO 101	3
Portal	3			Math Elective	3
Writing Competency	4			Natural World Domain	4
Domain	3			Domain	3
	<b>13</b>			<b>3</b>	<b>13</b>

### Sophomore

Fall	Hours	Winter	Hours	Spring	Hours
BN 204		3 CS 203		3 BA 250	3
CS 226	4			BN 340	3
Domain	3			Domain	3
Domain	3			Domain	3
				Domain	3
	<b>13</b>			<b>3</b>	<b>15</b>

### Junior

Fall	Hours	Winter	Hours	Spring	Hours
CS 326		3 Elective		3 CS 422	3
CS 388	4			Business Application Elective	3
Domain	3			Elective	3
Domain	3			Elective	3
Elective	3			Elective	3
	<b>16</b>			<b>3</b>	<b>15</b>

### Senior

Fall	Hours	Winter	Hours	Spring	Hours
CS 425		3 BN 377		3 CS 430 or 435	4
ME 450	1			Elective	3
Business Application Elective	3			Elective	3
Elective	3			Elective	3

Elective	3		
	<b>13</b>	<b>3</b>	<b>13</b>

**Total Hours: 123**

*Note: Elective courses could be used for a second major, a minor, a course of interest, internship or study abroad experience.*

*Note: See the Curriculum section (<http://catalog.mtmercy.edu/curriculum/#corecurriculumtext>) for more information on Portal, Competency, Domain, and Capstone courses.*

**\*Disclaimer**

The course offerings, requirements, and policies of Mount Mercy University are under continual examination and revision.

This *Catalog* presents the offerings, requirements, and policies in effect at the time of publication and in no way guarantees that the offerings, requirements, and policies will not change.

This plan of study represents a typical sequence of courses required for this major. It may not be applicable to every student. Students should contact a department faculty member to be sure of appropriate course sequence.