

# MASTER OF SCIENCE IN COMPUTER INFORMATION SYSTEMS - CYBERSECURITY CONCENTRATION

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The Cybersecurity concentration provides students with essential background, understanding, knowledge, and skills in the practice of software, Web, computer networks and computer systems security technology, and secure software and Web applications design and development.

## Admissions Requirements

The admission requirements for the Computer Information systems program are:

1. one semester of calculus
2. one semester of statistics, and
3. two semesters of computer programming

In addition to meeting all the general requirements of Graduate Education and of the department as stated above, candidates for the master's degree in computer information systems must satisfy the following requirements:

1. At least 21 of the 33 semester hours required must be earned in courses labeled as CIS. At most, six hours may be earned in approved courses other than those labeled CS or CIS.
2. To satisfy the core (breadth) requirements, a student must either take the following courses or show the evidence of having completed equivalent courses elsewhere:
  - a. CIS 530 Information Technology Infrastructure
  - b. CIS 571 Database Management Systems
  - c. CIS 575 Computer Information Systems Analysis. Design and Integration
  - d. CIS 591 CIS and IT Project Management.
3. To satisfy the depth requirements, the student must take three courses from one of the concentrations offered by the department. No course taken to satisfy the core requirements (see items 2) may be counted as one of the three courses in this requirement.

## Concentration Requirements

The concentration is comprised of 9 required semester hours of study as outlined below.

Code	Title	Hours
<b>Required Courses</b>		
CIS 515	Applied Cryptography	3.0
CIS 535	Computer Networks and System Security	3.0
CIS 595	Software and Web Applications Security	3.0
<b>Total Hours</b>		<b>9</b>