

## Computer Information Systems M.S. 2016-2017

### **Core Requirements (15 hours)**

The following courses, or approved substitutions are required for both the thesis option and extended course work options:

- [CINF 5231](#) Strategic Information Systems
- [CINF 5234](#) Advanced Systems Analysis and Design
- [CSCI 5132](#) Internet Protocols
- [CSCI 5333](#) Database Management Systems
- [CSCI 6530](#) Research Methods in Computer Science

### **Computer Information Systems Thesis Option (18 hours)**

- 3 hours of CENG/CINF/CSCI/SWEN or other approved related courses
- 6 hours of CINF/CSCI 4000-6000 levels
- 3 hours of CINF/CSCI 5100-6000
- CINF 6939 Master's Thesis Research

CINF/CSCI courses, 5100-6000 level: Students interested in pursuing the thesis option are encouraged to take [CINF 5939](#) (Independent Study in CIS) during their first year, in order to write up their thesis proposals (with the sponsoring of a faculty adviser).

### **Computer Information Systems Extended Course Work Option (21 hours)**

Students desiring to follow the extended course work option must successfully complete the capstone project course ([CINF 6838](#)).

- 3 hours of CENG/CINF/CSCI/SWEN or other approved related courses
- 6 hours of CINF/CSCI 4000-6000 levels
- 9 hours of CINF/CSCI 5100-6000
- CINF 6838 Research Project and Seminar

Note: [CINF 6838](#) must be taken after completion of the required core and during last 12 hours.

All electives must be approved before enrolling.

## **Computer Information Systems Specializations**

### **Specialization in Database Systems**

Students interested in developing a specialization in Database Systems may take the following electives:

- [CSCI 5433](#) Object-Oriented Database Systems
- [CSCI 5533](#) Distributed Information Systems
- [CSCI 5633](#) Web Database Development

[CSCI 5833](#) Data Mining: Tools and Techniques

### **Specialization in Networking and Security**

Students interested in developing a specialization in Networking and Security may take the following electives:

[CENG 5333](#) Network Performance Analysis

[CSCI 5233](#) Computer Security & Integrity

[CSCI 5234](#) Web Security

[CSCI 5235](#) Network Security

[CSCI 5431](#) Client-Server Based Network Programming

[CSCI 5531](#) Advanced Operating Systems