Computer Information Systems M.S.

Graduate studies in Computer Information Systems lead to a master of science (M.S.) degree. This plan is designed to prepare students for key technical, administration and management positions in the analysis, design, implementation, maintenance, operation and management of industrial and commercial computer information systems. The GRE score (verbal + quantitative) should be a minimum of 290 points, with a minimum quantitative score of 150.

Requirements

Computer Information Systems Basic Preparation

Students aspiring to graduate degree candidacy must have a bachelor’s degree in a related area and a background in Computer Information Systems. Preparatory requirements are proficiency in at least two high level languages, including an object-oriented programming language such as Java, C++ or C# and the following undergraduate course: Calculus I or Business Calculus.

Upper-level foundation course requirements:

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<tr>
<th>Course</th>
<th>Credit Hours</th>
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<tr>
<td>SWEN 4342</td>
<td>3</td>
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Additional Information
- Student select from CINF 3331 Or CENG 3331 And CENG 3131
- None of the above courses may apply to the graduate degree

Core Requirements (15 hours)

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

Computer Information Systems Thesis Option (18 hours)

3 hours of CENG/CINF/CSCI/SWEN or other approved related courses6 hours of CINF/CSCI 4000–6000 levels3 hours of CINF/CSCI 5100–6000

Additional Information
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 courses6 hours of CINF/CSCI 4000–6000 levels9 hours of CINF/CSCI 5100–6000

Additional Information
- 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 Specialization

Note: Data Science Specialization requires STAT 4345 or any Calculus based Statistics course as a prerequisite. (STAT 4345 may be allowed as an elective in this specialization if not taken previously)

Data Science Specialization

- STAT 5531 or STAT 5636

Additional Information

Choose 1 (for thesis) or 3 (for extended course work) of CINF 5432, CINF 5733, CSCI 5832, CSCI 5833, CINF 5000–6000 approved electives.

Cyber Security Specialization

Additional Information

Choose 1 (for thesis) or 3 (for extended course work) of CSCI 5737, CSCI 5931, CSCI/CINF 5000–6000 approved electives.

Suggested Plan of Study (for students in the Thesis Option)

The following study plan for the four regular semesters is recommended as a typical example for incoming full-time CIS students who plan to pursue the thesis option. Individual study plans may vary as long as the prerequisite structures are satisfied. Students should seek the advice of their assigned faculty adviser and set up their Candidate Plan of Study (CPS) as early as possible.

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<thead>
<tr>
<th>Semester 1 (9 credits)</th>
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<th>Semester 2 (9 credits)</th>
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<th>Semester 3 (9 credits)</th>
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<tr>
<td>CINF/CSCI 4000–6000 level elective</td>
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<tr>
<th>Semester 4 (6 credits)</th>
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<tr>
<td>6 hours of CINF/CSCI 5100–6000</td>
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