Program Contact Information
Email: csgradprogram@uab.edu

Program Information
The Master of Science in Cyber Security (formerly known as Computer Forensics and Security Management) (MSec) is an interdisciplinary program that prepares graduates for a professional career in the field of cyber security by developing in them the necessary skills crucial for success. The program also provides current practitioners the opportunity to obtain advanced-level training to facilitate career advancement. The program includes a set of core, required courses and the opportunity to select from a default option or two tracks of specialization.

Admission Requirements
Students accepted into the program will have earned a bachelor's degree from an accredited college or university or recognized university from abroad. Most of these students will have earned a cumulative undergraduate grade point average (GPA) of 3.0 or higher. Applicants whose native language is not English are required to take either the TOEFL or the IELTS and score 80 or higher on the TOEFL or 6.5 or higher on the IELTS. The GRE is NOT required.

Students seeking admission to the program who lack a background in computer science but meet the remaining minimum requirements for admission may be admitted contingent on them completing a set of prerequisite courses (or their equivalents) that may include the following (the program directors may waive/require some courses in addition to the ones listed below depending upon the students' specific background). Among these CS 532 can be taken after admitted and count towards the MS degree.

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 103 Introduction to Computer Science in Python</td>
<td>4</td>
</tr>
<tr>
<td>&amp; 103L Introduction to Computer Science in Python Lab</td>
<td></td>
</tr>
<tr>
<td>CS 203 Object-Oriented Programming in Java</td>
<td>4</td>
</tr>
<tr>
<td>&amp; 203L Object-Oriented Programming Lab</td>
<td></td>
</tr>
<tr>
<td>CS 532 Systems Programming</td>
<td>3</td>
</tr>
<tr>
<td>&amp; 532L Systems Programming Lab</td>
<td></td>
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</tbody>
</table>

Similarly, students seeking admission to the program (especially to the Cyber-Crime Investigations track) who lack a background in criminal justice but meet the remaining minimum requirements for admission are encouraged to complete CJ 230 (The Judicial Process in America: An Overview).

Master of Science in Cyber Security
A total of 30 semester hours are required for the degree, organized into: (a) 15 hours of required core courses, (b) 6 hours of electives from an approved list of relevant Computer Science courses, and (c) 9 hours of coursework in one of the following two tracks: Cyber Security track or Cybercrime Investigations track.

<table>
<thead>
<tr>
<th>Requirements</th>
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<tbody>
<tr>
<td>CS 534 Networking</td>
<td>3</td>
</tr>
<tr>
<td>CS 623 Network Security</td>
<td>3</td>
</tr>
<tr>
<td>CS 636 Computer Security</td>
<td>3</td>
</tr>
<tr>
<td>CS 689 Cyber Risk Management</td>
<td>3</td>
</tr>
<tr>
<td>CJ 502 Computer Forensics</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td><strong>15</strong></td>
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</tbody>
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<table>
<thead>
<tr>
<th>Requirements</th>
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<tbody>
<tr>
<td>CS 645 Modern Cryptography</td>
<td>3</td>
</tr>
<tr>
<td>CS 646 Blockchain and Cryptocurrency</td>
<td>3</td>
</tr>
<tr>
<td>CS 643 Cloud Security</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td><strong>9</strong></td>
</tr>
</tbody>
</table>

1. Cyber Security Track

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<tr>
<td>CS 645 Modern Cryptography</td>
<td>3</td>
</tr>
<tr>
<td>CS 646 Blockchain and Cryptocurrency</td>
<td>3</td>
</tr>
<tr>
<td>CS 643 Cloud Security</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td><strong>9</strong></td>
</tr>
</tbody>
</table>

2. Cybercrime Investigations Track

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS/CJ 519 Investigating Online Crimes</td>
<td>3</td>
</tr>
<tr>
<td>CS/CJ 537 Digital Media Forensics</td>
<td>3</td>
</tr>
<tr>
<td>CJ 675 Law Evidence and Procedure</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
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</tr>
</tbody>
</table>