INFORMATION ASSURANCE CONCENTRATION

The information assurance concentration is intended for students who wish to specialize in the security aspects of the computer science field. The concentration focuses on fundamental principles, worked examples, theory, and skills necessary to analyze, design, and construct secure information systems. The courses in this concentration address fundamental technologies, security policy, assurance, and ethics involved in the protection of the information systems. Hands-on experience is gained through numerous programming exercises associated with each course.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CYBR 3600</td>
<td>INFORMATION SECURITY, POLICY AND AWARENESS</td>
<td>3</td>
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<tr>
<td>CYBR 4360</td>
<td>FOUNDATIONS OF CYBERSECURITY</td>
<td>3</td>
</tr>
<tr>
<td>CSCI/CYBR 4380</td>
<td>COMPUTER AND NETWORK FORENSICS</td>
<td>3</td>
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</tbody>
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**Electives Courses**

Select 9 hours from the following:

- CYBR 4450 HOST-BASED VULNERABILITY DISCOVERY
- CYBR 4460 NETWORK-BASED VULNERABILITY DISCOVERY
- CIST/CYBR 4540 COMPUTER SECURITY MANAGEMENT
- CYBR 3370 SECURITY ADMINISTRATION - WINDOWS
- CYBR 3350 SECURITY ADMINISTRATION - LINUX
- CSCI/MATH 4560 NUMBER THEORY & CRYPTOGRAPHY
- or CYBR 3570 CRYPTOGRAPHY

Total Credits 18

1 This list of electives is not exhaustive. Students can take other relevant courses as electives with the approval of the Computer Science Undergraduate Program Committee.

Note: CSCI majors may complete the above concentration and apply selected courses toward the computer science core extension requirement.