### CYBERSECURITY, MS

**Campus:** NYC, Westchester, Online

<table>
<thead>
<tr>
<th>Bridge Courses</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>CS 601C</td>
<td></td>
</tr>
<tr>
<td>IS 612</td>
<td></td>
</tr>
<tr>
<td>IS 632</td>
<td></td>
</tr>
<tr>
<td>or IS 656</td>
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</table>

<table>
<thead>
<tr>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Computational Statistics</td>
<td></td>
</tr>
<tr>
<td>Introduction to Coding</td>
<td></td>
</tr>
<tr>
<td>Business Data Communications</td>
<td></td>
</tr>
<tr>
<td>Networks: Routing &amp; Switching</td>
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</table>

<table>
<thead>
<tr>
<th>Core Requirements</th>
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<tbody>
<tr>
<td>CYB 611</td>
<td>3</td>
</tr>
<tr>
<td>CYB 613</td>
<td>3</td>
</tr>
<tr>
<td>CYB 621</td>
<td>3</td>
</tr>
<tr>
<td>CYB 623</td>
<td>3</td>
</tr>
<tr>
<td>CYB 625</td>
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<table>
<thead>
<tr>
<th>Title</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Introduction to Cybersecurity</td>
<td></td>
</tr>
<tr>
<td>Operating Systems Theory and Administration</td>
<td></td>
</tr>
<tr>
<td>Information Security Management</td>
<td></td>
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<tr>
<td>Network Security and Defense</td>
<td></td>
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<tr>
<td>Ethical Hacking and Penetration Testing</td>
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<table>
<thead>
<tr>
<th>Concentration Electives</th>
<th>3-12</th>
</tr>
</thead>
<tbody>
<tr>
<td>See elective options below (p. 1)</td>
<td></td>
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</table>

<table>
<thead>
<tr>
<th>Capstone</th>
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<tbody>
<tr>
<td>CYB 691</td>
<td>3</td>
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<table>
<thead>
<tr>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cybersecurity Capstone Project</td>
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</tbody>
</table>

**Total Credits:** 30

### Concentration Electives

**General Concentration**

Students should work with their academic advisor to select individual courses from the current academic schedule to take as electives, provided the prerequisites have been met. Students can also select electives to satisfy either one of the concentrations below.

**Four Courses/12 Credits**

### Cyber Operation Concentration

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>IT 670</td>
<td>Mobile Forensics Investigation</td>
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</tr>
<tr>
<td>CS 608</td>
<td>Algorithms and Computing Theory</td>
<td>3</td>
</tr>
<tr>
<td>CYB 633</td>
<td>Malware Analysis and Reverse Engineering</td>
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</tr>
</tbody>
</table>

| Elective Course | 3 |

**Total Credits:** 12

### Cybersecurity Leadership Concentration

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>IS 642</td>
<td>Information Security Planning and Policy: NIST Standards</td>
<td>3</td>
</tr>
<tr>
<td>IS 643</td>
<td>Information Security Auditing and Risk Management:ISO Standards</td>
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</tr>
<tr>
<td>IS 644</td>
<td>Business Continuity &amp; Disaster</td>
<td>3</td>
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</table>

| Elective Course | 3 |

**Total Credits:** 12