INFORMATION TECHNOLOGY (M.S.)

Program Requirements

Students who wish to make a career change and have limited or no background in Computer Science and/or Technology will be accepted under the condition of bridging the gap through a program of study that will require anywhere from one to four courses in Computer Science Fundamentals. These additional courses do not count towards degree credit.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td></td>
<td><strong>Complete 0-16 credits by advisement</strong></td>
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</tr>
<tr>
<td>CSIT 501</td>
<td>Java Programming</td>
<td></td>
</tr>
<tr>
<td>CSIT 502</td>
<td>Computer Systems Principles</td>
<td></td>
</tr>
<tr>
<td>CSIT 503</td>
<td>Data Structures</td>
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<tr>
<td>CSIT 504</td>
<td>Discrete Mathematics in Computing</td>
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<tr>
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<tbody>
<tr>
<td>CSIT 535</td>
<td>Human-Computer Interaction (HCI)</td>
<td>3</td>
</tr>
<tr>
<td>CSIT 537</td>
<td>Web Development</td>
<td>3</td>
</tr>
<tr>
<td>CSIT 540</td>
<td>Computer Networks</td>
<td>3</td>
</tr>
<tr>
<td>CSIT 555</td>
<td>Database Systems</td>
<td>3</td>
</tr>
<tr>
<td>CSIT 561</td>
<td>Computer Security</td>
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**Electives**

*Complete 3 courses from the following:*

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<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
<td>CSIT 515</td>
<td>Software Engineering</td>
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</tr>
<tr>
<td>CSIT 531</td>
<td>Robotics</td>
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<tr>
<td>CSIT 545</td>
<td>Computer Architecture</td>
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<td>CSIT 547</td>
<td>Operating Systems</td>
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<tr>
<td>CSIT 551</td>
<td>Mobile Computing</td>
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<tr>
<td>CSIT 558</td>
<td>Data Mining</td>
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<tr>
<td>CSIT 560</td>
<td>Network Security</td>
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<tr>
<td>CSIT 562</td>
<td>Web Security</td>
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<tr>
<td>CSIT 565</td>
<td>Information Security Management</td>
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<tr>
<td>CSIT 566</td>
<td>Computer Forensics</td>
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<tr>
<td>CSIT 571</td>
<td>Computer Algorithms and Analysis</td>
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<tr>
<td>CSIT 574</td>
<td>Image Processing</td>
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<tr>
<td>CSIT 595</td>
<td>Special Topics in Computer Science</td>
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<tr>
<td>CSIT 610</td>
<td>Information Technology Project Management</td>
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<tr>
<td>CSIT 615</td>
<td>Advanced Software Engineering</td>
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<tr>
<td>CSIT 616</td>
<td>Software Process Management</td>
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<tr>
<td>CSIT 635</td>
<td>Advanced Human-Computer Interaction (HCI)</td>
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<tr>
<td>CSIT 655</td>
<td>Advanced Database Systems</td>
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<tr>
<td>CSIT 656</td>
<td>Scientific Databases</td>
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<tr>
<td>CSIT 691</td>
<td>Independent Study: Computer Science</td>
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<tr>
<td>CSIT 695</td>
<td>Readings in Computer Science</td>
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**Culminating Experience**

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<tbody>
<tr>
<td>CSIT 696</td>
<td>Research Methods in Computing</td>
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<th>Credits</th>
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<tbody>
<tr>
<td>CSIT 697</td>
<td>Master’s Project</td>
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Total Credits 30