**COMPUTER SCIENCE (M.S.)**

*Program Requirements*

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CSIT 515</td>
<td>Software Engineering</td>
<td>3</td>
</tr>
<tr>
<td>CSIT 545</td>
<td>Computer Architecture</td>
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</tr>
<tr>
<td>CSIT 571</td>
<td>Computer Algorithms and Analysis</td>
<td>3</td>
</tr>
<tr>
<td>CSIT 696</td>
<td>Research Methods in Computing</td>
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**Electives**

Complete 5 courses from the list below.  

<table>
<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
<td>CSIT 514</td>
<td>Compiler Construction</td>
<td>3</td>
</tr>
<tr>
<td>CSIT 527</td>
<td>Principles of Secure Programming</td>
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<tr>
<td>CSIT 528</td>
<td>Statistics for Data Science</td>
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<tr>
<td>CSIT 529</td>
<td>Parallel and Distributed Computing</td>
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<tr>
<td>CSIT 531</td>
<td>Robotics</td>
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<td>CSIT 535</td>
<td>Human-Computer Interaction (HCI)</td>
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<td>Web Development</td>
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<td>Computer Networks</td>
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<tr>
<td>CSIT 547</td>
<td>Operating Systems</td>
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<td>CSIT 548</td>
<td>Scalable Distributed Systems</td>
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<td>CSIT 550</td>
<td>Text Management</td>
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<td>CSIT 551</td>
<td>Mobile Computing</td>
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<td>CSIT 552</td>
<td>Python for Data Science</td>
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<td>CSIT 553</td>
<td>Exploratory Data Analysis and Visualization</td>
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<td>Big Data Analytics</td>
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<td>CSIT 555</td>
<td>Database Systems</td>
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<td>Introduction to Data Science</td>
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<td>CSIT 557</td>
<td>Advanced Techniques in Data Science</td>
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<tr>
<td>CSIT 558</td>
<td>Data Mining</td>
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<td>Network Security</td>
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<td>CSIT 595</td>
<td>Special Topics in Computer Science</td>
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<td>CSIT 598</td>
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<td>CSIT 599</td>
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<td>CSIT 610</td>
<td>Information Technology Project Management</td>
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<td>CSIT 615</td>
<td>Advanced Software Engineering</td>
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**Culminating Experience**

Complete one of the following:

- CSIT 697 Master's Project  
- CSIT 698 Master's Thesis

**Total Credits**

30

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1. CSIT 696 is the prerequisite for CSIT 697 and CSIT 698.