## COMPUTER SCIENCE (M.S.)

### Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Core Knowledge</strong></td>
<td></td>
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</tr>
<tr>
<td>Select 0-19 credits as required by advisor of the following:</td>
<td>0-19</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>
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</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>
<td>MATH 503</td>
<td>Mathematics for Computer Science III</td>
<td></td>
</tr>
<tr>
<td><strong>Required Courses</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CSIT 515</td>
<td>Software Engineering</td>
<td>3</td>
</tr>
<tr>
<td>CSIT 545</td>
<td>Computer Architecture</td>
<td>3</td>
</tr>
<tr>
<td>CSIT 571</td>
<td>Computer Algorithms and Analysis</td>
<td>3</td>
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<tr>
<td><strong>Elective Courses</strong></td>
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<tr>
<td>Select seven of the following:</td>
<td>21</td>
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<tr>
<td>CSIT 531</td>
<td>Robotics</td>
<td></td>
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<tr>
<td>CSIT 535</td>
<td>Human-Computer Interaction (HCI)</td>
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</tr>
<tr>
<td>CSIT 537</td>
<td>Web Development</td>
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</tr>
<tr>
<td>CSIT 540</td>
<td>Computer Networks</td>
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</tr>
<tr>
<td>CSIT 547</td>
<td>Operating Systems</td>
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</tr>
<tr>
<td>CSIT 551</td>
<td>Mobile Computing</td>
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</tr>
<tr>
<td>CSIT 555</td>
<td>Database Systems</td>
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</tr>
<tr>
<td>CSIT 560</td>
<td>Network Security</td>
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<tr>
<td>CSIT 574</td>
<td>Image Processing</td>
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<tr>
<td>CSIT 595</td>
<td>Topics in Computer Science</td>
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<tr>
<td>CSIT 615</td>
<td>Advanced Topics in Software Engineering</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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<tr>
<td><strong>Total Credits</strong></td>
<td>30-49</td>
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</tr>
</tbody>
</table>

1. Up to four grad courses may be taken from other depts w/ written permission.