M.S. in Computing and Business

The program requires the completion of 30 credits.

Students with non-computing STEM background may be accepted and required to take the following bridge courses (CS 506 may count toward the credits required for the MS degree):

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 280</td>
<td>Programming Language Concepts</td>
<td>3</td>
</tr>
<tr>
<td>CS 332</td>
<td>Principles of Operating Systems</td>
<td>3</td>
</tr>
<tr>
<td>CS 505</td>
<td>Programming, Data Structures, and Algorithms</td>
<td>3</td>
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<tr>
<td>CS 506</td>
<td>Foundations of Computer Science</td>
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**Total Credits**: 12

<table>
<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
<td>ACCT 615</td>
<td>Management Accounting</td>
<td>3</td>
</tr>
<tr>
<td>FIN 600</td>
<td>Corporate Finance I</td>
<td>3</td>
</tr>
<tr>
<td>HRM 601</td>
<td>Managing Organizational Behavior in Technology-Based Organizations</td>
<td>3</td>
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<tr>
<td>MRKT 620</td>
<td>Global Marketing Management</td>
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**Computer Science Core**

<table>
<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
<td>CS 610</td>
<td>Data Structures and Algorithms</td>
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<tr>
<td>CS 631</td>
<td>Data Management System Design</td>
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<tr>
<td>CS 634</td>
<td>Data Mining</td>
<td>3</td>
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<tr>
<td>CS 656</td>
<td>Internet and Higher-Layer Protocols</td>
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**Electives**

Select two of the following: 1

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>CS 632</td>
<td>Advanced Database System Design</td>
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<tr>
<td>CS 652</td>
<td>Cognitive Cloud Networking - Architectures and Applications</td>
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<td>CS 661</td>
<td>Systems Simulation</td>
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<tr>
<td>CS 696</td>
<td>Network Management and Security</td>
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<tr>
<td>ECE 644</td>
<td>Wireless Communications: Fundamentals to 5G</td>
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<tr>
<td>FIN 624</td>
<td>Corporate Finance II</td>
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<td>FIN 626</td>
<td>Financial Investment Institutions</td>
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<tr>
<td>FIN 634</td>
<td>Mergers, Acquisitions, and Restructuring</td>
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<tr>
<td>FIN 641</td>
<td>Derivatives Markets</td>
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<td>FIN 650</td>
<td>Investment Analysis and Portfolio Theory</td>
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<td>IS 634</td>
<td>Information Retrieval</td>
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<td>IS 681</td>
<td>Computer Security Auditing</td>
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<tr>
<td>MGMT 630</td>
<td>Decision Analysis with Quantitative Modeling</td>
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<td>MGMT 635</td>
<td>Data Mining and Analysis</td>
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<td>MGMT 650</td>
<td>Knowledge Management</td>
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<td>MIS 625</td>
<td>Management Strategies for E-Commerce</td>
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<tr>
<td>YWCC 691</td>
<td>Graduate Capstone Project</td>
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</tr>
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**Total Credits**: 30

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1. Only one from SOM
2. Counting YWCC 691 towards the elective credits requires the program director’s prior approval. In addition, it needs to be completed with an external partner (industry, lab, or government), or with a faculty only if the same faculty is not the student’s MS project or MS thesis advisor.