The quantitative finance MSF program is designed to prepare students for careers requiring analytical rigor in the financial industry. The curriculum for this track integrates economics, mathematics, statistics, and computer science with the theories and applications of finance. Students will study advanced modeling techniques and data analytics applied to financial markets. The rigorous program combines in-depth study of quantitative techniques with practical business problem solving. Elective courses will draw content from computer science, econometrics, and mathematics. Courses include quantitative portfolio management, computational methods in finance, foundations of artificial intelligence, database management systems, and applied econometrics.

Program Requirements
Complete all courses and requirements listed below unless otherwise indicated.

Core Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>FINA 6203</td>
<td>Investment Analysis</td>
<td>3</td>
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<tr>
<td>FINA 6331</td>
<td>Corporate Finance</td>
<td>3</td>
</tr>
<tr>
<td>FINA 6333</td>
<td>Data Analytics in Finance</td>
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<tr>
<td>FINA 6334</td>
<td>Empirical Methods in Finance</td>
<td>3</td>
</tr>
<tr>
<td>FINA 6335</td>
<td>Derivatives and Risk Analysis</td>
<td>3</td>
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Electives

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<tr>
<th>Code</th>
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<th>Hours</th>
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<tbody>
<tr>
<td>Complete four of the following:</td>
<td>12</td>
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<tr>
<td>CS 5100</td>
<td>Foundations of Artificial Intelligence</td>
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<tr>
<td>CS 5200</td>
<td>Database Management Systems</td>
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<tr>
<td>ECON 5140</td>
<td>Applied Econometrics</td>
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<tr>
<td>FINA 6207</td>
<td>Financial Modeling</td>
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<tr>
<td>FINA 6204</td>
<td>International Finance Management</td>
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</tr>
<tr>
<td>FINA 6214</td>
<td>Mergers, Acquisitions, and Private Equity</td>
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<tr>
<td>FINA 6216</td>
<td>Valuation and Value Creation</td>
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<tr>
<td>FINA 6217</td>
<td>Real Estate Finance and Investment</td>
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<tr>
<td>FINA 6219</td>
<td>Portfolio Management</td>
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<tr>
<td>FINA 6260</td>
<td>Entrepreneurial Finance and Venture Capital</td>
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<td>FINA 6336</td>
<td>Derivatives and Fixed-Income Securities</td>
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<tr>
<td>FINA 6337</td>
<td>Computational Methods in Finance</td>
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<tr>
<td>FINA 6338</td>
<td>Alternative Investments</td>
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</table>

Program Credit/GPA Requirements

30 total semester hours required
Minimum 3.000 GPA required