# MULTIDISCIPLINARY STUDIES, B.S., DATA SCIENCE OPTION

## Multidisciplinary Studies(BS)-SCTE Science & Tech

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td></td>
<td><strong>DATA SCIENCE - CORE 1 (COMPUTER SCIENCE)</strong></td>
<td></td>
</tr>
<tr>
<td>CSCI 161</td>
<td>Introduction to Programming 1</td>
<td>4</td>
</tr>
<tr>
<td>CSCI 162</td>
<td>Introduction to Programming 2</td>
<td>4</td>
</tr>
<tr>
<td>CSCI 362</td>
<td>Data Structures</td>
<td>4</td>
</tr>
<tr>
<td>CSCI 366</td>
<td>Database Systems</td>
<td>4</td>
</tr>
<tr>
<td>CSCI 450</td>
<td>Artificial Intelligence</td>
<td>4</td>
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<tr>
<td>CSCI 452</td>
<td>Data Mining</td>
<td>4</td>
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<tr>
<td>CSCI 453</td>
<td>Large-Scale Data Analytics and Visualization</td>
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<tr>
<td></td>
<td><strong>DATA SCIENCE - CORE 2 (MATHEMATICS AND DESIGN)</strong></td>
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<tr>
<td>CSCI 140</td>
<td>Discrete Structures</td>
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<tr>
<td>MATH 161</td>
<td>Calculus 1</td>
<td>4</td>
</tr>
<tr>
<td>MATH 211</td>
<td>Calculus 2</td>
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<tr>
<td>MATH 235</td>
<td>Survey of Statistics</td>
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<tr>
<td>MATH 236</td>
<td>Elements of Statistics 2</td>
<td>3</td>
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<tr>
<td>MATH 304</td>
<td>Matrix Algebra &amp; Applications</td>
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<tr>
<td>DESN 144</td>
<td>Digital Theory and Skills</td>
<td>3</td>
</tr>
<tr>
<td>DESN 349</td>
<td>Information Design</td>
<td>3</td>
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### REQUIRED CAPSTONE

A 2.0 GPA must be maintained in the overall major block and in each of the two Core areas.

Co-op/Research/Thesis - Choose 1 of the following: 1-3

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<tr>
<th>Code</th>
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<tbody>
<tr>
<td>CSCI 300</td>
<td>Co-Op Ed Experience in CSCI</td>
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</tr>
<tr>
<td>CSCI 400</td>
<td>Co-Op Ed Experience in CSCI</td>
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</tr>
<tr>
<td>CSCI 498</td>
<td>Independent Study</td>
<td></td>
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<tr>
<td>CSCI 499</td>
<td>Departmental Honors</td>
<td></td>
</tr>
<tr>
<td>MATH 300</td>
<td>Co-Op Ed Experience in Math</td>
<td></td>
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<tr>
<td>MATH 400</td>
<td>Co-Op Ed Experience in Math</td>
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</tr>
<tr>
<td>MATH 498</td>
<td>Independent Study</td>
<td></td>
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<tr>
<td>MATH 499</td>
<td>Departmental Honors</td>
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</table>

Total Hours: 57-59

## Req Related for Multidisciplinary Studies - SCTE

A Minor is Required. Please consult advisor

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<tr>
<td></td>
<td>A minor in a field other than Mathematics or Computer Science is required. Discuss options with your academic advisor.</td>
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Minor Requirements - See separate block

Total Hours: 0