MULTIDISCIPLINARY STUDIES, B.S., DATA SCIENCE OPTION

Millersville University’s new MDST concentration, Data Science, is a program of study that provides students with a solid foundation of skills in data science by combining knowledge and methodology from computer science, mathematics, and design. In addition, students are required to complete a minor of their choosing to acquire an area of domain knowledge to which they can apply their data science skills.

Data Scientists finds success in a wide variety of industries due to their astute problem solving skills. From engineering, aeronautics, and finance to criminal justice and information technology, the demand for data scientists continues to grow.

Multidisciplinary Studies (BS)-SCTE Science & Tech

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<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>
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<tr>
<td>CSCI 362</td>
<td>Data Structures</td>
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<tr>
<td>CSCI 366</td>
<td>Database Systems</td>
<td>4</td>
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<td>CSCI 450</td>
<td>Artificial Intelligence</td>
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<td>CSCI 452</td>
<td>Data Mining</td>
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<td>CSCI 453</td>
<td>Large-Scale Data Analytics and Visualization</td>
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<td>CSCI 140</td>
<td>Discrete Structures</td>
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<td>MATH 161</td>
<td>Calculus 1</td>
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<tr>
<td>MATH 211</td>
<td>Calculus 2</td>
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<td>MATH 235</td>
<td>Survey of Statistics</td>
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<tr>
<td>MATH 236</td>
<td>Elements of Statistics 2</td>
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<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>
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</tr>
<tr>
<td>DESN 349</td>
<td>Information Design</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: 3-12

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

Total Hours 59-68

Req Related for Multidisciplinary Studies - SCTE

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</table>

A Minor is Required. Please consult advisor

A minor in a field other than Mathematics or Computer Science is required. Discuss options with your academic advisor.