DATA SCIENCE MINOR
(MANCHESTER)

https://manchester.unh.edu/program/minor/data-science

Description

The objective of this minor is to provide a basic background in data science for those who are more interested in the theoretical underpinnings of analytics and data science.

Requirements

Students must complete five courses (20 credits) with a cumulative minimum grade point average of 2.0 and with no grade below a C- grade. Transfer course approval for the minor is limited to at most, two relevant courses successfully completed at another accredited institution, subject to syllabi review and approval. Some preparation in MATH 425 Calculus I and programming (COMP 425 Introduction to Programming, CS 414 From Problems to Algorithms to Programs or CS 415 Introduction to Computer Science I is required.

Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CS 515</td>
<td>Data Structures and Introduction to Algorithms</td>
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<td>Select one of the following:</td>
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<tr>
<td>COMP 525</td>
<td>Data Structures Fundamentals</td>
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<tr>
<td>CS 416</td>
<td>Introduction to Computer Science II</td>
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<td>CS 417</td>
<td>From Programs to Computer Science</td>
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<td>Select three of the following:</td>
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<tr>
<td>CS 730</td>
<td>Introduction to Artificial Intelligence</td>
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<tr>
<td>CS 750</td>
<td>Machine Learning</td>
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<tr>
<td>CS 753</td>
<td>Information Retrieval</td>
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<td>CS 775</td>
<td>Database Systems</td>
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<tr>
<td>MATH 645</td>
<td>Linear Algebra for Applications</td>
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<tr>
<td>MATH 736</td>
<td>Advanced Statistical Methods for Research</td>
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<td>MATH 738</td>
<td>Data Mining and Predictive Analytics</td>
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<td>MATH 739</td>
<td>Applied Regression Analysis</td>
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<td>DATA 750</td>
<td>Neural Networks</td>
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<td>DATA 757</td>
<td>Big Data</td>
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<tr>
<td>Total Credits</td>
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</table>

1 Must select at least one CS and one MATH course. Must select CS 750 Machine Learning or MATH 738 Data Mining and Predictive Analytics.

For more information, contact Jeremiah Johnson, program coordinator and minor supervisor, at jeremiah.johnson@unh.edu. (jeremiah.johnson@unh.edu)