DATA SCIENCE MINOR

https://ceps.unh.edu/computer-science/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.

Students interested in the Data Science minor should contact matthew.magnusson@unh.edu for more information.

Requirements

Academic policies related to Minors.

Credit toward the minor will only be given for courses passed with C- or better, and a 2.00 grade-point average must be maintained in courses for the minor.

- Courses taken on a pass/fail basis may not be used for a minor.
- No more than 8 credits used to satisfy major requirements may be used for the minor.
- No more than 2 courses or 8 credits may be from transfer coursework. Any transferred coursework must be approved by the minor coordinator.

For additional details on how to declare a minor, please visit https://www.unh.edu/registrar/academic-records/majors-minors.

Some preparation in programming (CS 415 Introduction to Computer Science I), and math (MATH 425 Calculus I, MATH 426 Calculus II, and MATH 539 Introduction to Statistical Analysis or MATH 644 Statistics for Engineers and Scientists) is required.

Code	Title	Credits
Requirements		
CS 515	Data Structures and Introduction to Algorithms	4
Select one course from the following:		4
CS 417	From Programs to Computer Science (Durham Students)	
CS 416	Introduction to Computer Science II	
COMP 525	Data Structures Fundamentals (Manchester Students)	
Select three courses from the following: [1]		12
CS 730	Introduction to Artificial Intelligence	
CS 750	Machine Learning	
CS 753	Information Retrieval and Generation Systems	
CS 757	Mathematical Optimization for Applications	
CS 775	Database Systems	
MATH 645	Linear Algebra for Applications	
MATH 736	Advanced Statistical Modeling	
MATH 738	Data Mining and Predictive Analytics	
MATH 739	Applied Regression Analysis	
DATA 750	Neural Networks	
Total Credits		**20**

[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.