

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.

For more information, contact Matthew Magnusson, program coordinator and minor supervisor, at matthew.magnusson@unh.edu.

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 (CS 415: Introduction to Computer Science I, or COMP 425: Introduction to Programming) 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	
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	
DATA #757	Mining Massive Datasets	
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.