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.

For more information, contact Jeremiah Johnson (Jeremiah.Johnson@unh.edu), minor supervisor.

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 424 Applied Computing 1: Foundations of Programming , CS 414 From Problems to Algorithms to Programs or CS 415 Introduction to Computer Science I) is required.

Requirements

Code	Title	Credits
CS 515	Data Structures and Introduction to Algorithms	4
Select one of the following:		4
COMP 525	Data Structures Fundamentals	
CS 416	Introduction to Computer Science II	
Select three of the following: [1]		12
CS 730	Introduction to Artificial Intelligence	
CS 750	Machine Learning	
CS 753	Information Retrieval	
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.