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.

PROGRAM ADVISORS

Dr. Stephanie Schwartz, Computer Science

For more information visit: https://www.millersville.edu/mdst/approved-programs/data-science.php

Multidisciplinary Studies(BS)-SCTE Science & Tech

Code	Title	Hours
DATA SCIENCE - CORE 1 (COMPUTER SCIENCE)		
CSCI 161	Introduction to Programming 1	4
CSCI 162	Introduction to Programming 2	4
CSCI 362	Data Structures	4
CSCI 366	Database Systems	4
CSCI 450	Artificial Intelligence	4
CSCI 452	Data Mining	4
CSCI 453	Large-Scale Data Analytics and Visualization	4
DATA SCIENCE - CORE 2 (MATHEMATICS AND DESIGN)		
CSCI 140	Discrete Structures	4
MATH 161	Calculus 1	4
MATH 211	Calculus 2	4
MATH 235	Survey of Statistics	3
MATH 236	Elements of Statistics 2	3
MATH 304	Matrix Algebra & Applications	4
DESN 144	Digital Theory and Skills	3
DESN 349	Information Design	3
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
CSCI 300	Co-Op Ed Experience in CSCI	
CSCI 400	Co-Op Ed Experience in CSCI	
CSCI 498	Independent Study	
CSCI 499	Departmental Honors	
MATH 300	Co-Op Ed Experience in Math	
MATH 400	Co-Op Ed Experience in Math	
MATH 498	Independent Study	
MATH 499	Departmental Honors	
Total Hours		**59-68**

Req Related for Multidisciplinary Studies - SCTE

Code	Title	Hours
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.		
Minor Requirements - See separate block		
Total Hours		**0**