

Data Analytics Minor

For information, contact the Department of Statistics, 262 McVey Data Science Building (DSB), statistics@miamioh.edu.

Data Analytics combines statistical methods, programming skills, and deep knowledge in a field of application to extract meaning from large, unstructured, or complex data sets with the goal of informing policy, decisions, or scholarly research. This minor is designed for students who anticipate a career involving quantitative research methods or desire the ability to manage unstructured data sets that are common in many areas of business, government, or scholarly inquiry. Students minoring in Data Analytics may not major in Data Analytics.

Program Requirements

(18 semester hours)

Prerequisites for this program include:

- Introductory Statistics (AP Statistics, STA 261, STA 301, or ISA 225);
- College Algebra (MTH 122) or Trigonometry (MTH 124) or Precalculus (MTH 125) or Calculus 1 (AP Calculus or MTH 141 or MTH 151) or an ACT Math score of at least 24 or an SAT Math score of at least 580 or at least 12 on the Miami International Math Placement Test.

Code	Title	Credit Hours
Select one of the following options:		3-8
Option 1:		
MTH 133	Mathematical Foundations of Data Analytics	
Option 2:		
MTH 141 or MTH 151	Business Calculus Calculus I	
and		
MTH 121 or MTH 222 or MTH 231	Finite Mathematical Models Introduction to Linear Algebra Elements of Discrete Mathematics	
Take all of the following:		
STA/POL 308	Introduction to Programming and Scripting for Data Analytics	3
STA 309	Building, Managing and Exploring Data Sets in Analytics	3
STA 363 or ISA 391	Introduction to Statistical Modeling Applied Regression Analysis in Business	3
ENG/STC 285	Professional Communication for Data Analytics	3
Select one of the following:		3
CSE/CIT 262	Technology, Ethics, and Global Society	
ENG/IMS/JRN 424	Ethics and Digital Media	
MJF 301	Media Law and Ethics	
PHL 131	Introduction to Ethics	

PHL 205	Science and Culture
Total Credit Hours	18-23