

# DATA SCIENCE MINOR

Students earning a minor in data science will gain foundational skills needed to work with many different types of data, and to analyze, visualize, and extract useful information from data in a variety of ways. The program includes courses from Mathematics, Statistics and Computer Science.

## Curriculum

Code	Title	Hours
<b>Required Courses</b>		
Choose one of the following MATH sequences:		6-8
MATH 161 & MATH 162	Calculus I and Calculus II	
MATH 131 & MATH 132	Applied Calculus I and Applied Calculus II	
DSCI 101	Fundamentals of Modern Data Science with R	3
STAT 203	Introduction to Probability & Statistics	3
STAT 308	Applied Regression Analysis	3
COMP 141	Introduction to Computing Tools and Techniques	3
MATH 215 / COMP 215	Object-Oriented Programming with Mathematics	3
COMP 231	Data Structures & Algorithms for Informatics	3
STAT 338 or COMP 379	Predictive Analytics Machine Learning	3
<b>Total Hours</b>		<b>27-29</b>

## Suggested Sequence of Courses

Course	Title	Hours
<b>Year 1</b>		
<b>Fall</b>		
MATH 161 or MATH 131	Calculus I or Applied Calculus I	4
<b>Hours</b>		<b>4</b>
<b>Spring</b>		
MATH 162 or MATH 132	Calculus II or Applied Calculus II	4
<b>Hours</b>		<b>4</b>
<b>Year 2</b>		
<b>Fall</b>		
DSCI 101	Fundamentals of Modern Data Science with R	3
<b>Hours</b>		<b>3</b>
<b>Spring</b>		
COMP 141	Introduction to Computing Tools and Techniques	3
<b>Hours</b>		<b>3</b>
<b>Year 3</b>		
<b>Fall</b>		
STAT 308	Applied Regression Analysis	3
COMP 215 / MATH 215	Object Oriented Programming with Mathematics	3
<b>Hours</b>		<b>6</b>

### Spring

STAT 203	Introduction to Probability & Statistics	3
COMP 231	Data Structures & Algorithms for Informatics	3
<b>Hours</b>		<b>6</b>

### Year 4

#### Fall

STAT 338 or COMP 379	Predictive Analytics or Machine Learning	3
<b>Hours</b>		<b>3</b>
<b>Total Hours</b>		<b>29</b>