

DATA SCIENCE MINOR

The Data Science minor will encourage students to gain valuable experience and preparation for the growing field of Data Science, an interdisciplinary field combining elements of mathematics, statistics, and computing. Through completing the minor, students will

- learn how to acquire and manage "big data"
- learn how to use foundational tools of statistical science and machine learning
- gain technical expertise in programming using R and Python
- explore applications of data science in their chosen major disciplines

Data Science Minor Requirements (18 credits):*

Code	Title	Credits
Required Courses		
CSC 221 or CSC 222	Introduction to Programming Object-Oriented Programming	3
DSC 365	Introduction to Data Science	3
DSC 366	Machine Learning	3
MTH 360 or MTH 361	Elementary Probability and Statistics Probability and Statistics in the Health Sciences	3
MTH 362	Statistical Modeling	3
One additional course chosen from the following:		3
BIA 472	Visual Analytics and Visualization	
BIA 484	Machine Learning	
BIO 501	Bioinformatics	
CSC 321	Data Structures	
CSC 421	Algorithm Design and Analysis	
ECO 418	Econometrics	
ECO 433	Regional Economic Analysis	
FIN 505	Financial Modeling	
HIS 316	Introduction to Digital Humanities	
MKT 343	Marketing Research	
MKT 479	Seminar in Marketing	
MTH 561	Mathematical Statistics I	
PHY 553	Computational Physics	
PLS 421	Public Opinion, Political Behavior And Survey Research	
PSY 370	Applying Research Methods and Statistics in Psychology	
Total Credits		18

* Kingfisher Concentration requirements: Choose any 9 credits from list above.