

# DATA SCIENCE MINOR

Department of Mathematics and Computer Science (<https://catalog.washcoll.edu/catalog/departments-programs/mathematics-computer-science/>)  
Division of Natural Sciences and Mathematics

The data science minor is a perfect pairing with any major. In your major, you will gain domain expertise, while the data science minor will give you the tools and experience to investigate questions within that domain through the lens of data analysis. You will also be able to critically interrogate the role of data and the ethics of data within your chosen field.

## Data Science Minor Requirements

Code	Title	Credits	Notes
<b>Required Courses</b>		<b>24</b>	
MAT 109	Statistical Inference & Data Analysis I		
MAT 209	Statistical Inference & Data Analysis II		
or CSI 360	Machine Learning		
MAT/CSI 240	Discrete Mathematics		
or MAT 280	Linear Algebra		
or MAT 370	Operations Research		
CSI 111	Computer Science I		
CSI 220	Data Science		
CSI 310	Database Systems		
<b>Two Electives from the Following</b>		<b>8</b>	
BUS 357	Intro to Quantitative Finance		
CSI 112	Computer Science II		
CSI 360	Machine Learning (if not counted in the core above)		
CSI 380	Design & Analysis of Algorithms		
CSI 420	Artificial Intelligence		
CSI 450	Data Ethics and Practicum		
ECN 320	Econometrics		
ENV 211	Intermediate Geographic Info Systems		
MAT/CSI 240	Discrete Mathematics		
MAT 280	Linear Algebra (if not counted in the core above)		
MAT 370	Operations Research (if not counted in the core above)		
MAT 320	Probability		
PHY 252	Scientific Modeling & Data Analysis		
SOC 306	Research Methods in Sociology		
Other course may be approved by the Department Chair			
<b>Total Credits</b>		<b>32</b>	

Sample Text