

Statistics and Data Science Minor

The minor in Statistics and Data Science will give students experience manipulating, summarizing and visualizing data and applying statistical and machine learning methods. Students are exposed to the principles of and tools for conducting reproducible data analysis and are taught to think critically about relevant ethical issues (e.g., data privacy, misrepresentation of findings).

Total Hours Required: 15 Requirements

Requirements are listed in the table below. Additional requirements may follow the table, so be sure to read the entire page. Some required courses listed below may also satisfy [General Education](#) requirements, including [Core Curriculum](#). Students should also review the [University's Undergraduate Minor and Certificate Requirements and Policies](#).

Code	Title	Hours
Foundational Area Courses		
Hours chosen from: each of the following foundational areas		
Statistics:		3
SDS 320E	Elements of Statistics	
SDS 320H	Elements of Statistics: Honors	
SDS 315	Statistical Thinking	
Data Science:		3
SDS 322E	Elements of Data Science	
SDS 313	Introduction to Data Science	
Programming: (credit earned through Credit by Examination (CBE) or transfer coursework with a letter grade of C- or better may be used to satisfy this requirement)		3
C S 303E	Elements of Computers and Programming	
C S 312	Introduction to Programming	
C S 312H	Introduction to Programming: Honors	
Supplementary Courses and Areas		
Hours chosen from: any of the following supplementary courses and areas		6
Regression/Modeling:		
SDS 324E	Elements of Regression Analysis	
SDS 334	Intermediate Statistical Methods	
STA 372T.21	Time Series Forecasting	
Machine Learning:		
SDS 326E	Elements of Statistical Machine Learning	
SDS 336	Practical Machine Learning	
Databases:		
C S 327E	Elements of Databases	
Probability/Mathematical Statistics/Statistical Inference:		
SDS 321	Introduction to Probability and Statistics	
SDS 431	Probability and Statistical Inference	
M 362K	Probability I	
M 378K	Introduction to Mathematical Statistics	
Data Visualization:		
SDS 366	Data Visualization	
College Requirements - Natural Sciences		

Additional Requirements and Policy

- The minor requires 15 semester hours of coursework with a grade of at least C- in each course.
- No transfer credits, credit-by-exam, or CR courses may be used to fulfill minor course requirements unless otherwise stated in requirements.
- Please note: students who have taken SDS major restricted courses including SDS 313, SDS 315, SDS 431, SDS 334, and SDS 336 and who are no longer pursuing the SDS major may use those courses to fulfill minor requirements.