

# Data Science Minor (Non-Teaching)

CSCI 127	Joy and Beauty of Data	4
CSCI 132	Basic Data Structures and Algorithms	4
CSCI 232	Data Structures and Algorithms	4
CSCI 246	Discrete Structures	3
or M 221	Introduction to Linear Algebra	
or M 242	Methods of Proof	
STAT 216Q	Introduction to Statistics	3
STAT 337	Intermediate Statistics with Introduction to Statistical Computing	3
Choose 3 courses from the following (at least one Computer Science and one Math/Stat course):		9
CSCI 347	Data Mining	
CSCI 432	Advanced Algorithm Topics	
CSCI 440	Database Systems	
CSCI 447	Machine Learning	
CSCI 451	Computational Biology	
M 386R	Software Applications in Mathematics	
M 441	Numerical Linear Algebra & Optimization	
STAT 408	Statistical Computing and Graphical Analysis	
STAT 411	Methods for Data Analysis I	
STAT 412	Methods for Data Analysis II	
STAT 425	Biostatistical Data Analysis	
STAT 439	Introduction to Categorical Data Analysis	
STAT 441	Experimental Design	
STAT 446	Sampling	

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Note 1: Additional relevant, upper-division courses will be added as options as they become available.

Note 2: 490R (Undergraduate Research), 491 (Special Topics), 492 (Independent Study) or 494 (Seminar) credits related to data science also count. These credits must be applied via Degree Works Exceptions.