

Data Science Minor (Non-Teaching)

The Data Science Minor consists of

- CSCI 127, Joy and Beauty of Data, 4 credits
- CSCI 132, Basic Data Structures and Algorithms, 4 credits
- CSCI 232, Data Structures and Algorithms, 4 credits
- One 3-credit course from
 - CSCI 246, Discrete Structures
 - M 221, Introduction to Linear Algebra
 - M 242, Methods of Proof
- STAT 216Q, Introduction to Statistics, 3 credits
- STAT 217Q, Intermediate Statistical Concepts, 3 credits
- Three upper-division courses (at least 3 computer science credits and at least 3 math or stat credits) from
 - 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

Note 1: Additional relevant, upper-division courses will be added as options as they become available. For example, the following courses are under discussion: a Library Science (LSCI) Data Curation course, a Mathematics (M) Discrete Optimization course and a Computer Science (CSCI) Data Mining course.

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 DegreeWorks Exceptions.

Font Notice

This document should contain certain fonts with restrictive licenses. For this draft, substitutions were made using less legally restrictive fonts. Specifically:

Times was used instead of Adobe Garamond Pro.

The editor may contact Leepfrog for a draft with the correct fonts in place.