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.