

# DATA SCIENCE MINOR

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## ***Regulations Governing Minor Course Work***

1. There shall be a minimum of 18.0 credit hours with a minimum Millersville QPA of 2.0.
2. Only one course which counts toward your major may be counted toward your minor.
3. Courses that count toward a minor are also eligible to be used to satisfy the current University-wide General Education requirements subject to normal distribution requirements.
4. At least two courses should be at the upper-division level (300-400). Exceptions may be requested upon evidence of program depth.
5. No course needed for the minor may be taken Pass-Fail.
6. One-half or more of the work required for the minor must be completed at Millersville University.
7. No student may minor in his or her major.

## **Minor in Data Science**

| Code  | Title  | Hours     |
|---|--|-----------|
| CSCI 140  | Discrete Structures                          | 4         |
| CSCI 161  | Introduction to Programming 1                | 4         |
| CSCI 162  | Introduction to Programming 2                | 4         |
| CSCI 366  | Database Systems                             | 4         |
| Data Mining or Lg-Scale Data Analytics Viz - Choose 1 of the following: |  | 4         |
| CSCI 452  | Data Mining                                  |           |
| CSCI 453  | Large-Scale Data Analytics and Visualization |           |
| <b>Total Hours</b>  |  | <b>20</b> |