**Statistical & Data Sciences Major Requirements**

<table>
<thead>
<tr>
<th>Mathematics</th>
<th>Computer Science</th>
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<tbody>
<tr>
<td>MATH 102: Intro to Statistics</td>
<td>CSCI 100: Scientific Computing (or CSCI 102)</td>
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<tr>
<td>MATH 111: Calculus I (or MATH 108)</td>
<td>CSCI 110: Imperative Problem Solving</td>
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<tr>
<td>MATH 112: Calculus II</td>
<td>CSCI 120: Data Structures &amp; Algorithms</td>
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<tr>
<td>MATH 211: Linear Algebra</td>
<td>CSCI 232: Software Engineering - Databases</td>
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<table>
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<tr>
<th>Data Science</th>
<th>Application &amp; Research</th>
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<tr>
<td>DATA 106: Intro to Data Science</td>
<td>Required minor or 2nd major (not MATH or CS)</td>
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<tr>
<td>DATA 201: Data Visualization</td>
<td>DATA 410 or IDPT 415: Internship (0.25+ cr.)</td>
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<tr>
<td>DATA 231: Applied Statistical Methods</td>
<td>DATA 451: Senior Independent Study</td>
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<tr>
<td>DATA 325: Applied Data Science (or CSCI 310)</td>
<td>DATA 452: Senior Independent Study</td>
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</tbody>
</table>

**Application & Research**

- Required minor or 2nd major (not MATH or CS)
- DATA 410 or IDPT 415: Internship (0.25+ cr.)
- DATA 451: Senior Independent Study
- DATA 452: Senior Independent Study

**Statistical & Data Sciences Minor**

- MATH 102, CSCI 100 (or 102), CSCI 110, DATA 106, DATA 201, DATA 231

**Offered EVERY semester**

- MATH 102: Intro to Statistics
- MATH 111: Calculus I (or Math 107 fall & Math 108 spring)
- MATH 112: Calculus II
- MATH 211: Linear Algebra
- CSCI 100: Scientific Computing (or CSCI 102, fall only)
- CSCI 110: Imperative Problem Solving
- CSCI 120: Data Structures & Algorithms

**FALL only**

- DATA 106: Intro to Data Science
- DATA 231: Applied Statistical Methods*

  *Offered every fall beginning F2020

**SPRING only**

- DATA 201: Data Visualization
- DATA 325: Applied Data Science®
- CSCI 232: Software Engineering – Databases®
- CSCI 310: Machine Intelligence**

  *Spring of even years only (S2020, S2022)
  **Spring of odd years only (S2021, S2023)

@Intended primarily for juniors

- The DATA major requires a minor or second major outside the department (not in math or CS).
- The DATA major requires an approved internship, for 0.25-1.00 credits via DATA 410 or IDPT 415.
  - Internship credit possibilities include AMRE, a relevant APEX Fellowship, a private internship, etc.
- DATA majors may not double major or minor in Computer Science.
- DATA majors may not double major in Mathematics, but may minor (extra math courses are required).
- Students majoring in Computer Science or Mathematics may minor in Statistical & Data Sciences.
- Other recommended courses include MATH 215, 223, and 229.
- The main software packages emphasized in the major/minor are R, Python, SQL, and C++.

- A score of 3+ on the AP Calculus AB exam (or 3+ AB subscore on the BC exam) gives MATH 111 credit.
- A score of 4+ on the AP Calculus BC exam gives credit for both MATH 111 and MATH 112.
- A score of 3+ on the AP Statistics exam gives credit for MATH 102.
- A score of 4+ on the AP Computer Science A exam gives credit for CSCI 100.