## Statistics Minor

Students who complete the minor in statistics receive serious exposure to probability theory, statistical estimation theory, statistical analysis, and the design of statistical data collection.

### Prerequisites for the Minor

Students choosing to minor in statistics are required to complete prerequisite courses in mathematics. Some may be completed concurrently with the 7 courses for the minor.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>STAT 202-0</td>
<td>Introduction to Statistics and Data Science</td>
</tr>
<tr>
<td>or STAT 210-0</td>
<td>Introduction to Probability and Statistics</td>
</tr>
<tr>
<td>or STAT 232-0</td>
<td>Applied Statistics</td>
</tr>
</tbody>
</table>

#### 5 core courses

<table>
<thead>
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<tbody>
<tr>
<td>STAT 348-0</td>
<td>Applied Multivariate Analysis</td>
</tr>
<tr>
<td>or STAT 351-0</td>
<td>Design and Analysis of Experiments</td>
</tr>
<tr>
<td>or STAT 354-0</td>
<td>Time Series Modeling</td>
</tr>
</tbody>
</table>

• Students who do not take STAT 201-0 are responsible for independently learning content not covered in alternative course)

1 List of topics not covered in substitute courses can be found on the department website (https://statistics.northwestern.edu/undergraduate/).

### The Statistics Minor in Relation to Majors

The minor in Statistics can be completed along with any major. The general Weinberg College policies about major/minor pairings apply. Below is clarifying text about how this works with certain majors, and where particular exceptions to general rules are approved.

#### The Statistics Minor for Students in the Integrated Science Program

Students complete all requirements for ISP major, and requirements for Statistics minor are modified as follows:

- Introductory Statistics course requirement: STAT 202-0, STAT 210-0, STAT 232-0 or equivalent is waived
- MATH 226-0 is waived
- STAT 383-0 Probability and Statistics for ISP counts in place of STAT 320-1
- ISP students required to take either STAT 348-0 or STAT 354-0 (STAT 351-0 may not be applied to the minor)

All other statistics minor course requirements remain the same.

#### The Statistics Minor for Students in the Mathematical Methods in the Social Sciences Program

Students complete all requirements for the MMSS adjunct major, and requirements for the Statistics minor are modified as follows:

- Introductory Statistics course requirement: STAT 202-0, STAT 210-0, STAT 232-0 or equivalent is waived
- MATH 226-0 is waived
- MATH 385-0 Probability and Statistics for MMSS counts in place of STAT 320-1
- STAT 350-0 is replaced by a combination of MATH 386-1 Econometrics for MMSS and MATH 386-2 Econometrics for MMSS
• MMSS students required to take either STAT 348-0 or STAT 354-0
  (STAT 351-0 may not be applied to the minor)

All other statistics minor course requirements remain the same.

**Statistics Minor and the Data Science Major**
see Data Science Major (https://catalogs.northwestern.edu/
undergraduate/arts-sciences/statistics-data-science/data-science-
major/) catalog page