<table>
<thead>
<tr>
<th>Statistics Minor</th>
<th>Mathematical &amp; Computational Science Minor</th>
<th>Data Science Minor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Designed to complement major degree programs primarily in the social and natural sciences</td>
<td>Intended to provide an experience in Computer Science, Mathematics, Management Science and Engineering, and Statistics</td>
<td>Intended for majors in the humanities &amp; social sciences who want to gain practical knowledge of statistical data analytic methods as it relates to their field of interest. No previous programming or statistical background is assumed.</td>
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<tr>
<td>20 units</td>
<td>32 units</td>
<td>22 units minimum</td>
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</tbody>
</table>

**Required Courses:**
- STATS 116 – Probability
- STATS 200 – Theoretical Statistics

**Qualifying Courses (choose 1):**
- Math 52 – Integral Calculus of Several Variables
- STATS 191 – Introduction to Applied Statistics (only 1 may be counted toward the minor)

**Elective Courses**
At least one elective must be a STATS 200 level course. The remaining two elective courses may also be 200-level courses. Alternatively, one or two elective courses may be approved courses in other departments. Statistics courses below the 100-level do not count toward the minor. Some electives listed at [https://statistics.stanford.edu/statistics-minor](https://statistics.stanford.edu/statistics-minor)

**Required courses:**
- *Math Core: MATH 51 or MATH 104*  
- *CS Core: CS 106A and either CS 106B or 106X*  
- *MS&E Core: MS&E 211 or MS&E 221*  
- *STATS Core: STATS 116* and either STATS 191 or 200

*STATS 116 cannot be substituted or waived*

**Elective Courses**
- 3 courses from at least two different departments
- listed at [https://mcs.stanford.edu/academics/mcs-minor](https://mcs.stanford.edu/academics/mcs-minor)

**Required courses:**
- *Linear Algebra: MATH 51 or CME 100*  
- *Programming: CS 106A*  
- *Programming in R: STATS 32 or STATS 48N or THINK 3*  
- *Statistics: ECON 102A, PHIL 166, STATS 141, STATS 191, STATS 211, or STATS 216*  
- *Data Mining & Analysis: STATS 202*

**Data Science Methodology (choose 1):**
- SOC 180 A/B  
- PUBLPOL 166  
- POLisci 150B  
- PSYCH 196B  
- MS&E 135  
- ENGLISH 184E  
- ECON 29