

Minor Comparison Chart

Statistics Minor	Mathematical & Computational Science Minor	Data Science Minor
<p>Designed to complement major degree programs primarily in the social and natural sciences</p>	<p>Intended to provide an experience in Computer Science, Mathematics, Management Science and Engineering, and Statistics</p>	<p>Intended for majors in the humanities & 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.</p>
<p>19 units</p>	<p>32 units</p>	<p>22 units</p>
<p>Required Courses:</p> <p>STATS 116 – Probability STATS 200 – Theoretical Statistics</p> <p>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)</p>	<p>Required courses: 6 core subjects + 3 elective courses</p> <p><i>Math Core:</i> MATH 51 or MATH 104 <i>CS Core:</i> CS 106A and either CS 106B or 106X <i>MS&E Core:</i> MS&E 211 or MS&E 221 <i>STATS Core:</i> STATS 116* and either STATS 191 or 200</p> <p>*STATS 116 cannot be substituted or waived</p>	<p>Required courses:</p> <p><i>Linear Algebra:</i> MATH 51 or CME 100 <i>Programming:</i> CS 106A or (CS 106AP/AJ) <i>Programming in R:</i> STATS 32 or THINK 3 <i>Data Science:</i> STATS 101 <i>Statistics (one):</i> ECON 102A, PHIL 166, STATS: 48N, 141, 191, STATS 211 <i>Data Mining & Analysis:</i> STATS 202 or 216</p>
<p>Elective Courses</p> <p>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</p>	<p>Elective Courses</p> <p>3 courses from at least two different departments from the list below</p> <p>https://mcs.stanford.edu/academics/mcs-minor</p>	<p>Data Science Methodology (choose 1):</p> <p>https://statistics.stanford.edu/data-science-minor</p>