

Statistics Minor	Mathematical & Computational Science Minor	Data Science Minor														
Designed to complement major degree programs primarily in the social and natural sciences	Intended to provide an experience in Computer Science, Mathematics, Management Science and Engineering, and Statistics	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.														
20 units	32 units	22 units minimum														
<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: 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 <i>Programming in R:</i> STATS 32 or STATS 48N or THINK 3 <i>Statistics:</i> ECON 102A, PHIL 166, STATS 141, STATS 191, STATS 211, or STATS 216 <i>Data Mining & Analysis:</i> STATS 202</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</p> <p>listed at https://mcs.stanford.edu/academics/mcs-minor</p>	<p>Data Science Methodology (choose 1):</p> <table border="0"> <tr> <td>SOC 180 A/B</td> <td>SOC 126</td> </tr> <tr> <td>PUBLPOL 166</td> <td>POLISCI 155</td> </tr> <tr> <td>POLISCI 150B</td> <td>PHIL 50S</td> </tr> <tr> <td>PSYCH 196A</td> <td>LINGUIST 275</td> </tr> <tr> <td>MS&E 135</td> <td>HIST 401A</td> </tr> <tr> <td>ENGLISH 184E</td> <td>CS 224W</td> </tr> <tr> <td>ECON 29</td> <td></td> </tr> </table>	SOC 180 A/B	SOC 126	PUBLPOL 166	POLISCI 155	POLISCI 150B	PHIL 50S	PSYCH 196A	LINGUIST 275	MS&E 135	HIST 401A	ENGLISH 184E	CS 224W	ECON 29	
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