STATISTICS AND DATA SCIENCE MAJOR, B.S. – 2022-2023

Students must complete all pre-major courses with a 2.5 or higher UC grade-point average. All pre-major courses must be completed with a grade of “C” or better. Students are permitted to repeat up to a maximum of two pre-major courses. Only one repeat is allowed in each course. In the case of a letter grade below C, students must repeat the course at UCSB. Preparation courses are excluded from the pre-major GPA, but will apply to the overall major GPA. Students must complete Computer Science 8 and either 9 or 16 with a grade of “C” or better. Entry into the pre-major does not guarantee admission to full major status. While completing required preparation, students are classified as a Pre-Statistics and Data Science major.

PRE-MAJOR

<table>
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<tr>
<th>Math 2A-B or 3A-B</th>
<th>4A-B, 6A</th>
<th>Math 8 or PSTAT 8*</th>
<th>PSTAT 10</th>
<th>UNITS TO COMPLETE</th>
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<td>20-22</td>
<td>5</td>
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*Note: Either Math 4A, 4B, 6A, or 6B must be completed with a grade of "B" or better to take Math 8 or PSTAT 8. Math 8 is a prerequisite for all upper division Math courses except Math 117, 104A, 104B, and 104C. If you plan to take additional upper division Math courses, you must take Math 8.

PREPARATION FOR THE MAJOR

Computer Science 8 and either 9 or 16..................................................................................................................... 8

Note: CMPSC 9 is recommended over CMPSC 16.

UPPER-DIVISION MAJOR

48 UD units in PSTAT and Mathematics are required, distributed as follows:

A. PSTAT 120A (or W 120A), 120B................................................................................................................... 8
B. PSTAT 122 and 126......................................................................................................................................... 8
C. 24 units from elective PSTAT courses .......................................................................................................... 24
D. 8 units from: other PSTAT courses not used above; Math 104A-B-C, 108A-B, 111A-B-C, 117, 118A-B-C, 132A-B; Econ 100B, 101, 134A-B..................................................................................................... 8

Note: Math 100A-B, 101A-B, 102A-B, 193; PSTAT 109, 193 will NOT apply to the major.

Guide to PSTAT Courses:

• Probability and Statistics, Theory: PSTAT 120A-B-C
• Data Science and Applied Statistics core courses: PSTAT 100, 105, 115, 122, 126, 127, 130, 131, 132, 134, 135, 174, 175, 197A-B-C
• Actuarial and Financial Mathematics courses: PSTAT 170, 171, 172A-B, 173, 176, 183
• Stochastic Modelling courses: PSTAT 160A-B
• For students preparing to continue to graduate school: PSTAT 160A-B and at least one UD Math course (Math 117 and/or Math 108A) is highly recommended

MAJOR REGULATIONS

PREREQUISITES..........................Check the General Catalog for the prerequisites to all listed courses.
P/NP GRADING OPTION .................Not allowed for any major course (prep or UD major), including courses applied to the major from other departments.
SUBSTITUTIONS........................In the major requirements permissible only by petition to the department chair and dean.
G.P.A. REQUIREMENTS..............At least 2.0 overall UC average in all upper-division major courses and all courses (Prep and UD) for the major.
DOUBLE MAJORS .......................With the approval of each department chairperson, up to a total of 8 units may be applied simultaneously to both UD majors.