

STATISTICS AND DATA SCIENCE MAJOR, B.A. – 2024-2025

To be admitted to the full major, 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 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.

<u>PRE-MAJOR</u>	<u>UNITS TO COMPLETE</u>
Math 2A-B or 3A-B, 4A-B, 6A	20-22 _____
Math 8 or PSTAT 8*	5 _____
PSTAT 10	5 _____

***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 (or W 8) and either 9 or 16	8 _____
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Note: CMPSC 9 is recommended over CMPSC 16. Also, students cannot get credit for CMPSC 8 at UCSB if transferring in credit for CMPSC 9 or 16, so please see the Department advisors in such instances.

UPPER-DIVISION MAJOR

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

A. PSTAT 120A (or W 120A), 120B and 126	12 _____
B. 20 units from elective PSTAT courses	20 _____
C. 4 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	4 _____

Note: Math 100A-B, 101A-B, 102A-B, 193; PSTAT 109, 182T (or W 182T), 193 will NOT apply to the major.

Guide to PSTAT Courses:

- Probability and Statistics Theory: PSTAT 120A (or W 120A), 120B, 120C
- Data Science and Applied Statistics courses: PSTAT 100, 105, 115, 122, 123, 126, 127, 130, 131, 132, 134, 135, 174 (or W 174), 175, 197A-B-C
- Actuarial and Financial Mathematics courses: PSTAT 170, 171, 172A-B, 173, 176, 183
- Stochastic Modelling courses: PSTAT 160A (or W 160A), 160B
- For students preparing to continue to graduate school: PSTAT 160A (or W 160A), 160B, PSTAT 199 (research), and at least one UD Math course (Math 117 and/or Math 108A) is highly recommended

MAJOR REGULATIONS

PREREQUISITES	Check the <i>General Catalog</i> 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 <u>and all</u> 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.