

**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**

**UNITS TO COMPLETE**

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 and either 9 or 16.....	8 _____
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**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.