

STATISTICS AND DATA SCIENCE MAJOR, B.S. – 2019-2020

PREPARATION FOR THE MAJOR

UNITS YET TO COMPLETE

Math 2A-B or 3A-B, and 4A-B.....	16-18	_____
Math 6A and Math 8*	9	_____
Computer Science 16 (Students need to take Computer Science 8 as a prerequisite for 16).....	4	_____
PSTAT 10	5	_____

- Notes:** Math 2A-B or 3A-B, 4A-B, and PSTAT 10 must be completed with a grade of C or better.
 Math 8 must be completed with a grade of C or better for the Probability and Statistics concentration.
 * Either Math 4A, 4B, 6A, or 6B must be completed with a grade of "B" or better in order to take Math 8.

UPPER-DIVISION MAJOR

52 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. 12 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.....	12	_____

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 105, 115, 122, 126, 127, 130, 131, 132, 134, 135, 174, 175
- 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 OPTIONNot 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.
RESIDENCE REQUIREMENTSAt least 20 UD units in major while in residence at UCSB.
G.P.A. REQUIREMENTSAt least 2.0 overall UC average in **all** upper-division major courses **and all** courses (Prep and UD) for the major.
DOUBLE MAJORSWith the approval of each department chairperson, up to a total of 8 units may be applied simultaneously to both UD majors.