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

PREPARATION FOR THE MAJOR

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Units Yet to Complete</th>
</tr>
</thead>
<tbody>
<tr>
<td>Math 2A-B or 3A-B, and 4A-B</td>
<td>16-18</td>
</tr>
<tr>
<td>Math 6A and Math 8*</td>
<td>9</td>
</tr>
<tr>
<td>Computer Science 16 (Students need to take Computer Science 8 as a prerequisite for 16)</td>
<td>4</td>
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<tr>
<td>PSTAT 10</td>
<td>5</td>
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</tbody>
</table>

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 |

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 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.
RESIDENCE REQUIREMENTS: At least 20 UD units in major while in residence at UCSB.
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.