WELCOME! Gaucho Transfer Friday

Department of Statistics And Applied Probability

UC SANTA BARBARA
Meet the PSTAT Team!

Ellery Wilkie, Undergraduate Advisor
pstat-undergradadvisor@ucsb.edu

Myranda Flores, Student Affairs Manager
studentaffairs@pstat.ucsb.edu

Academic Coordinator
academic-coordinator@pstat.ucsb.edu

Undergraduate Peer Advisors
pstat-undergradadvisor@ucsb.edu
Statistics & Applied Probability Degrees Offered

- Financial Mathematics and Statistics, B.S.
- Statistics and Data Science, B.S. and B.A
- Actuarial Science B.S. and B.S./M.S.
- Statistical Science Minor
What is a Pre-Major?

- All incoming transfer students are admitted as a pre-major.
- To be eligible to declare the full major, you must complete your major’s pre-major requirements with a C or higher in each course and a UC GPA of a 2.5 or higher.
- You may declare the full major during the quarter you are enrolled in your last pre-major course.
- Upper division PSTAT courses following PSTAT 120A are limited to those who have declared the full major, so it is recommended that you complete your pre-major requirements as soon as possible.
Financial Mathematics and Statistics

Joint major offered by both the PSTAT and the MATH departments, and in cooperation with the Economics department.

This major is intended for students interested in the financial markets. Career options for FMS majors include:

- Financial planning
- Investment banking
- Corporate finance
- ...and more!

Many students in this major decide to pursue graduate school as well!
To be admitted into the full major students must complete all pre-major courses with a 2.5 or higher UC grade point average. All pre-major and preparation for the major courses must be completed with a grade of “C” or better. Preparation courses are excluded from the pre-major GPA, but will apply to the overall major GPA. Entry into the pre-major does not guarantee admission to full major status. While completing required preparation, students are classified as pre-majors.

**PRE-MAJOR**

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Units to Complete</th>
</tr>
</thead>
<tbody>
<tr>
<td>Economics 1 and 2</td>
<td>8</td>
</tr>
<tr>
<td>Math 2A-B or 3A-B, 4A-B, 6A-B, 8 (or PSTAT 8)*</td>
<td>29-31</td>
</tr>
</tbody>
</table>

* Notes:  
  - Either Math 4A, 4B, 6A, or 6B must be completed with a grade of "B" or better in order 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**

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Units to Complete</th>
</tr>
</thead>
<tbody>
<tr>
<td>One course from Computer Science 8, 9, 16, or Engineering 3.</td>
<td>3-4</td>
</tr>
<tr>
<td>Economics 10A</td>
<td>5</td>
</tr>
<tr>
<td>PSTAT 10</td>
<td>5</td>
</tr>
</tbody>
</table>

Upon satisfactory completion of the pre-major requirements, the student must complete a change of major petition in the Department of Mathematics and obtain the appropriate signatures. Change of Major petitions can be found on the Mathematics department website.
UPPER-DIVISION MAJOR

52 UD units are required, distributed as follows:

Math 104A-B-C, 117 ........................................................................................................ 16_____

PSTAT 120A-B, 126, 160A-B.......................................................................................... 20_____

PSTAT 170 .................................................................................................................... 4_____

12 units from: Economics 100B, 101, 130, 134A-B, 140B, 141, 171, 181; Math 108A-B, 114,
124A-B, 132A; PSTAT 120C, 130, 131, 132, 134, 135, 171, 173, 174, 176 ........................................ 12_____

Elective courses taken: _____________________________________________________________

Note: Math 100A-B, 101A-B, 102A-B, 193; PSTAT 109, 193 will not apply to the major.
# Financial Mathematics and Statistics, B.S. – 2022-2023 (Transfer Students)

This schedule is just an example and should be used as a guide.

- This schedule assumes the student has completed the lower division courses at their previous institution: Math 3A-B, Math 4A-B, Math 6A, CMPSC 8/9/16 or ENGR 3, ECON 1/2/3.

Note: Math 8 (or PSTAT 8) and PSTAT 10 must be completed at UCSB.

## Important Information:

- **12 elective units from:**

- Either Math 4A, 4B, 6A, or 6B must be completed with a grade of "B" or better in order 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.

- **Only one of the following courses is required:** CMPSC 8 (Python), CMPSC 9 (Python), CMPSC 16 (C++) or Engineering 3 (Matlab). If schedule allows, students are encouraged to take more than one CMPSC class.

- **PSTAT 171 is a recommended elective in preparation for PSTAT 170 (Upper division requirement).**

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

## Third Year

<table>
<thead>
<tr>
<th>Fall Quarter</th>
<th>Winter Quarter</th>
<th>Spring Quarter</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSTAT 120A (4 units)</td>
<td>ECON 10A (5 units)</td>
<td>PSTAT 126 (4 units)</td>
</tr>
<tr>
<td>PSTAT 10 (5 units)</td>
<td>PSTAT 160A (4 units)</td>
<td>PSTAT 160B (4 units)</td>
</tr>
<tr>
<td>MATH 8 (or PSTAT 8)</td>
<td>PSTAT 120B (4 units)</td>
<td>MATH 117 (4 units)</td>
</tr>
</tbody>
</table>

## Fourth Year

<table>
<thead>
<tr>
<th>Fall Quarter</th>
<th>Winter Quarter</th>
<th>Spring Quarter</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 104A (4 units)</td>
<td>MATH 104B (4 units)</td>
<td>MATH 104C (4 units)</td>
</tr>
<tr>
<td>PSTAT 171 (4 units)</td>
<td>PSTAT 170 (4 units)</td>
<td>PSTAT ELECTIVE*</td>
</tr>
</tbody>
</table>
Statistics and Data Science B.S. and B.A.

This is our most popular major! The department’s student population has grown since we’ve included more data science curriculum to our program. We’ve added Data Science courses such as PSTAT 115 (Bayesian Analytics), PSTAT 134 (Statistical Data Science), and PSTAT 135 (Big Data).

What is the difference between the B.S. and B.A.?

**Bachelor of Arts**
- Recommended for students who want to double major
- Allows students to graduate earlier

**Bachelor of Science**
- Requires 12 more units of upper division major coursework
- More specialized and better prepares students for the workforce
PRE-STATISTICS AND DATA SCIENCE MAJOR, B.A. or 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.

<table>
<thead>
<tr>
<th>PRE-MAJOR</th>
<th>UNITS TO COMPLETE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Math 2A-B or 3A-B, 4A-B, 6A</td>
<td>20-22</td>
</tr>
<tr>
<td>Math 8 or PSTAT 8*</td>
<td>5</td>
</tr>
<tr>
<td>PSTAT 10</td>
<td>5</td>
</tr>
</tbody>
</table>

*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.

<table>
<thead>
<tr>
<th>PREPARATION FOR THE MAJOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Computer Science 8 and either 9 or 16</td>
</tr>
</tbody>
</table>

*Note: CMPSC 9 is recommended over CMPSC 16.
STATISTICS AND DATA SCIENCE MAJOR, B.A. – 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.

<table>
<thead>
<tr>
<th>PRE-MAJOR</th>
<th>UNITS TO COMPLETE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Math 2A-B or 3A-B, 4A-B, 6A</td>
<td>20-22</td>
</tr>
<tr>
<td>Math 8 or PSTAT 8*</td>
<td>5</td>
</tr>
<tr>
<td>PSTAT 10</td>
<td>5</td>
</tr>
</tbody>
</table>

*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

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

Notes: Math 100A-B, 101A-B, 102A-B, 193; PSTAT 109, 193 will NOT apply to the major.
# STATISTICS AND DATA SCIENCE, B.A. – 2022-2023 (TRANSFER STUDENTS)

This schedule is just an example and should be used as a guide.

- This schedule assumes the student has completed the lower division Math courses at their previous institution: Math 3A-B, Math 4A-B, Math 6A, CMPSC 9 (or 16).

Note: PSTAT 8 (or Math 8) and PSTAT 10 must be completed at UCSB.

<table>
<thead>
<tr>
<th>THIRD YEAR</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fall Quarter</strong></td>
<td><strong>Winter Quarter</strong></td>
<td><strong>Spring Quarter</strong></td>
</tr>
<tr>
<td>PSTAT 120A (4 units)</td>
<td>PSTAT 120B (4 units)</td>
<td>PSTAT 126 (4 units)</td>
</tr>
<tr>
<td>PSTAT 10 (4 units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PSTAT 8 (or Math 8) (5 units)*</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>FOURTH YEAR</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fall Quarter</strong></td>
<td><strong>Winter Quarter</strong></td>
<td><strong>Spring Quarter</strong></td>
</tr>
<tr>
<td>PSTAT ELECTIVE - Area B</td>
<td>PSTAT ELECTIVE - Area B</td>
<td>PSTAT ELECTIVE - Area B</td>
</tr>
<tr>
<td>PSTAT ELECTIVE - Area B</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PSTAT ELECTIVE - Area C</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## IMPORTANT INFORMATION:

**Area B:** (20 units) from elective PSTAT courses.

**Area C:** (4 units) from PSTAT courses not used above or Math 104A-B-C, 108A-B, Math 111A-B-C, 117, 118A-B-C, 132 A-B; Economics 100B, 101, 134A-B.

*Either Math 4A, 4B, 6A, or 6B must be completed with a grade of "B" or better in order 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.

The following courses will not apply to the major: Math 100A-B, 101A-B, 102A-B, 193, and PSTAT 109.
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>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Math 2A-B or 3A-B, 4A-B, 6A</td>
<td>20-22</td>
</tr>
<tr>
<td>Math 8 or PSTAT 8*</td>
<td>5</td>
</tr>
<tr>
<td>PSTAT 10</td>
<td>5</td>
</tr>
</tbody>
</table>

*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

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Computer Science 8 and either 9 or 16</td>
<td>8</td>
</tr>
</tbody>
</table>

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.
STATISTICS AND DATA SCIENCE, B.S. – 2022-2023 (TRANSFER STUDENTS)

This schedule is just an example and should be used as a guide.

- This schedule assumes the student has completed the lower division Math courses at their previous institution:

Note: PSTAT 8 (or Math 8) and PSTAT 10 must be completed at UCSB.

<table>
<thead>
<tr>
<th>THIRD YEAR</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fall Quarter</strong></td>
<td><strong>Winter Quarter</strong></td>
<td><strong>Spring Quarter</strong></td>
</tr>
<tr>
<td>PSTAT 120A (4 units)</td>
<td>PSTAT 120B (4 units)</td>
<td>PSTAT 126 (4 units)</td>
</tr>
<tr>
<td>PSTAT 10 (4 units)</td>
<td></td>
<td>PSTAT ELECTIVE - Area C</td>
</tr>
<tr>
<td>PSTAT 8 (or Math 8) (5 units)*</td>
<td></td>
<td>PSTAT ELECTIVE - Area C</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>FOURTH YEAR</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fall Quarter</strong></td>
<td><strong>Winter Quarter</strong></td>
<td><strong>Spring Quarter</strong></td>
</tr>
<tr>
<td>PSTAT 122 (4 units)</td>
<td>PSTAT ELECTIVE - Area C</td>
<td>PSTAT ELECTIVE - Area C</td>
</tr>
<tr>
<td>PSTAT ELECTIVE - Area C</td>
<td></td>
<td>PSTAT ELECTIVE - Area C</td>
</tr>
<tr>
<td>PSTAT ELECTIVE - Area C</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**IMPORTANT INFORMATION:**

**Area C:** (24 units) from elective PSTAT courses.

**Area D:** (8 units) from PSTAT courses not used above or Math 104A-B-C, 108A-B, Math 111A-B-C, 117, 118A-B-C, 132 A-B; Economics 100B, 101, 134A-B.

*Either Math 4A, 4B, 6A, or 6B must be completed with a grade of "B" or better in order 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.

The following courses will not apply to the major: Math 100A-B, 101A-B, 102A-B, 193, and PSTAT 109.
Actuarial Science B.S.

This major specializes in the academic and career requirements to become an actuary. Actuaries are professionals who use statistical analysis to calculate risk.

To become a credentialed actuary, you must complete a series of exams. Courses offered in PSTAT help you to prepare for those exams! See our website for a list of Course/Exam comparison: https://www.pstat.ucsb.edu/undergrad/actuarial-science/exam
**PRE-ACTUARIAL 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-Actuarial Science major.

<table>
<thead>
<tr>
<th>PRE-MAJOR</th>
<th>UNITS TO COMPLETE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Math 2A-B or 3A-B, 4A-B, 6A-B</td>
<td>24-26</td>
</tr>
<tr>
<td>Math 8 or PSTAT 8*</td>
<td>5</td>
</tr>
<tr>
<td>PSTAT 10</td>
<td>5</td>
</tr>
</tbody>
</table>

*Note: Either Math 4A, 4B, 6A, or 6B must be completed with a grade of "B" or better in order 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**

<table>
<thead>
<tr>
<th></th>
<th>UNITS TO COMPLETE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Computer Science 8 and either 9 or 16</td>
<td>8</td>
</tr>
<tr>
<td>Writing 107A or 107B</td>
<td>4</td>
</tr>
</tbody>
</table>

Recommended courses: Econ 1, 2, 3A (fulfills VEE), and Phil 3 or 4. 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 126, 160A, 174 ................................................................. 12____
C. PSTAT 170, 171, 172A, and 160B or 172B ................................................................. 16____
D. 8 units from: PSTAT 105, 120C, 127, 130, 131, 160B or 172B (not used in Area C), 173, 175, 176, 183 ................................................................. 8____

Recommended electives:
Econ 134A (VEE), 130 (SAS)
For SOA track: PSTAT 172B, 173, 175, 131
For CAS track: PSTAT 127, 131, 160B, 173, 183

Note: Math 100A-B, 101A-B, 102A-B, 193; PSTAT 109, 193 will NOT apply to the major.
### Actuarial Science, B.S. – 2022-2023 (TRANSFER STUDENTS)

*This schedule is just an example and should be used as a guide.*

- This schedule assumes the student has completed the lower division Math courses at their previous institution:
  - Math 3A-B, Math 4A-B, Math 6A, CMPS 16

Note: PSTAT 8 and PSTAT 10 must be completed at UCSB.

#### THIRD YEAR

<table>
<thead>
<tr>
<th>Quarter</th>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fall Quarter</strong></td>
<td>PSTAT 120A (4 units)</td>
</tr>
<tr>
<td></td>
<td>- P</td>
</tr>
<tr>
<td></td>
<td>PSTAT 8 (5 units)</td>
</tr>
<tr>
<td></td>
<td>PSTAT 10 (5 units)</td>
</tr>
<tr>
<td><strong>Winter Quarter</strong></td>
<td>PSTAT 171 (4 units)</td>
</tr>
<tr>
<td></td>
<td>- FM</td>
</tr>
<tr>
<td></td>
<td>PSTAT 120B (4 units)</td>
</tr>
<tr>
<td></td>
<td>- P, MAS I, VEE</td>
</tr>
<tr>
<td></td>
<td>ECON 10A (4 units)</td>
</tr>
<tr>
<td></td>
<td>- VEE</td>
</tr>
<tr>
<td><strong>Spring Quarter</strong></td>
<td>PSTAT 126 (4 units)</td>
</tr>
<tr>
<td></td>
<td>- SRM, PA, MAS I</td>
</tr>
<tr>
<td></td>
<td>PSTAT 160A (4 units)</td>
</tr>
<tr>
<td></td>
<td>- MAS I, MAS II</td>
</tr>
<tr>
<td></td>
<td>PSTAT ELECTIVE – Area D</td>
</tr>
</tbody>
</table>

#### FOURTH YEAR

<table>
<thead>
<tr>
<th>Quarter</th>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fall Quarter</strong></td>
<td>WRITING 107B (4 units)</td>
</tr>
<tr>
<td></td>
<td>PSTAT 174 (4 units)</td>
</tr>
<tr>
<td></td>
<td>- SRM, MAS I</td>
</tr>
<tr>
<td></td>
<td>PSTAT ELECTIVE – Area D</td>
</tr>
<tr>
<td><strong>Winter Quarter</strong></td>
<td>PSTAT 172A (4-5 units)</td>
</tr>
<tr>
<td></td>
<td>- LTAM, MAS I</td>
</tr>
<tr>
<td></td>
<td>PSTAT 170 (4 units)</td>
</tr>
<tr>
<td></td>
<td>- IFM</td>
</tr>
<tr>
<td><strong>Spring Quarter</strong></td>
<td>PSTAT 172B OR 160B (4 units)</td>
</tr>
<tr>
<td></td>
<td>- LTAM FOR 172B ONLY</td>
</tr>
<tr>
<td></td>
<td>PSTAT ELECTIVE – Area E</td>
</tr>
</tbody>
</table>

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

### IMPORTANT INFORMATION:

**Recommended electives:**
- Econ 134A (VEE), 130 (SAS)

**For SOA track:** PSTAT 172B, 173, 175, 131

**For CAS track:** PSTAT 127, 131, 160B, 173, 183

**VEE Course Credit:** To receive credit for a VEE subject, a grade of B- or better is required in each of the associated courses.

**Exam Prep Course:**
- MAS I: PSTAT 120B, PSTAT 120C, PSTAT 126, PSTAT 131, PSTAT 160A, PSTAT 172A, PSTAT 173, PSTAT 174
- MAS II: PSTAT 131, PSTAT 160A, PSTAT 173
- SRM: PSTAT 126, PSTAT 131, PSTAT 174
- PA: PSTAT 131
- SAS: PSTAT 130
- LTAM: PSTAT 172A, PSTAT 1728
- CSTAM: PSTAT 120C
- STAM: PSTAT 173
- FM: PSTAT 171
- IFM: PSTAT 170
- P: PSTAT 120A, PSTAT 120B
Actuarial Exams

Two Tracks:

- Society of Actuaries (SOA): life, health, retirement
- Casualty Actuarial Society (CAS): Property and casualty (P&C) insurance (auto, home, etc.)

Validation of Educational Experience (VEE):

- Mathematical Statistics
- Economics
- Finance and Accounting

Recommended electives:
Econ 134A (VEE), 130 (SAS)
For SOA track: PSTAT 172B, 173, 175, 131
For CAS track: PSTAT 127, 131, 160B, 173, 183
Actuarial Science Combined B.S./M.S. Program

- Earn a bachelor’s and master’s degree while you’re at UC Santa Barbara!
- Transfer students are eligible to apply and pursue the master’s degree
- **This program is ONLY offered to current UCSB undergraduate students.** You cannot graduate with the bachelor’s and come back to pursue the master’s degree.
- Students gain first-hand actuarial research experience (PSTAT 296A/B)
- Info Session about the BS/MS program: Winter 2024
### JUNIOR YEAR

**Fall Quarter**
- PSTAT 120A (4 units)
  - P
- PSTAT 8 (or MATH 8) (5 units)
- PSTAT 10 (5 units)

**Winter Quarter**
- PSTAT 120B (4 units)
  - P, MAS I, VEE
- PSTAT 171 (4 units)
  - FM
- ECON 10A (5 units)

**Spring Quarter**
- PSTAT 126 (4 units)
  - SRM, PA, MAS I
- PSTAT 120C (4 units)
  - MAS I
- PSTAT 160A (4 units)
  - MAS I, MAS II

### SENIOR YEAR

**Fall Quarter**
- PSTAT 160B (4 units)
  - MAS I
- PSTAT 274 (4 units)
  - SRM, MAS I
- WRITING 107B

**Winter Quarter**
- PSTAT 172A (4 units)
  - LTAM, MAS I
- PSTAT 170 (4 units)
- PSTAT 130 (4 units)

**Spring Quarter**
- PSTAT 172B (4 units)
  - ALTAM
- ECON 134A (4 units - BS Elective*)
  - VEE
- PSTAT 183 (4 units - MS Elective*)

### GRADUATE YEAR

**Fall Quarter**
- PSTAT 296A (4 units)
- PSTAT 213A (4 units)
- PSTAT 263 (1 unit seminar)
- MS Elective*

**Winter Quarter**
- PSTAT 296B (4 units)
- PSTAT 231 (4 units)
- PSTAT 263 (1 unit seminar)

**Spring Quarter**
- PSTAT 276 (4 units)
- MS Elective*
- PSTAT 263 (1 unit seminar)

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*For Actuarial Science majors, prerequisites for ECON 134A are ECON 10A and PSTAT 126 or PSTAT 274
PSTAT Course Offerings

- PSTAT Course Information: https://www.pstat.ucsb.edu/courses

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
Advising Options

- If you have any questions about your major, course schedule, research opportunities, or more, we are here to help!
  - Undergraduate Advisors
  - Peer Advisors (current PSTAT students)
  - Faculty Undergraduate Advisors
    - Research, graduate school, career exploration
  - Academic Coordinator
    - Internship opportunities
    - Mock interviews, resume reviews
- Email: undergradadvisor@pstat.ucsb.edu
- Office: South Hall 5607 (5th floor)
- Current advising hours available here: https://www.pstat.ucsb.edu/undergrad/advising
PSTAT Research Opportunities

- CFMAR LAB
- Data Science Capstone: PSTAT 197ABC
- More information on student research opportunities:
  - [https://undergrad.research.ucsb.edu/get-started/](https://undergrad.research.ucsb.edu/get-started/)
  - [https://www.pstat.ucsb.edu/undergrad/research](https://www.pstat.ucsb.edu/undergrad/research)
PSTAT Research

PSTAT 199: Independent Studies in Statistics

- PSTAT 199 provides an opportunity for advanced students in the major to work closely with a PSTAT professor on a research project.
  - 1-4 units per quarter, for up to a total of 12 units
  - PSTAT 199 can count as an elective course for the major

- PSTAT faculty research interests can be found on our website:
  - https://www.pstat.ucsb.edu/about/research/faculty
  - Talk to professors during their office hours or via email
Data Science Capstone: PSTAT 197ABC

- Students form teams to work on a year-long capstone project in collaboration with industry partners and research labs.
  - Apply during the Spring quarter before your senior year
  - [https://pstat197.github.io/about/info-for-students.html](https://pstat197.github.io/about/info-for-students.html)

CFMAR Lab

- Center for Financial Mathematics and Actuarial Research (CFMAR) Undergraduate Lab
  - Students work on research projects mentored by a senior graduate student and supervised by a professor.
  - Projects cover quantitative finance, risk management or stochastic process models.
  - Concurrent enrollment in PSTAT 199 (2-4 units)
Other PSTAT Opportunities

- Seminars
- Student Clubs
- Career Fairs
- Career Development
- PSTAT Student Employment

Department of Statistics And Applied Probability
PSTAT Opportunities

**Seminars**
- PSTAT 263
- CMFAR Lab

**Career Fairs**
- Actuarial Science Career Fair
- Statistics and Data Science Career Fair

**Student Employment**
- Peer Advisors
- Undergraduate Learning Assistants
- Undergraduate Readers

**Clubs**
- Actuarial Association
- Data Science Club
- Finance Connection
- Data Analysis & Coding Club (DAnC)

**Career Development**
- Mock Interviews
- Resume and Cover Letter Reviews
- Employment and Internship Info and Prep
STUDENT RESOURCES

Advising Resources
• Advising Information
• General Catalog
• Change of Major Policies
• Course Repeat Policies
• Undergraduate Research Information
• Actuarial Science BS/MS Program
• Undergraduate FAQs

Other Resources for UCSB Students
• Student Wellbeing
• Basic Needs Resources
• Campus Learning Assistance Services
• Disabled Students Program
• Student Support and Resources
• UCSB Return to Campus Requirements
• Events at UCSB
Transfer Module

Once you SIR…

• Transfer Student Module
  • [https://orientation.sa.ucsb.edu/transfer-orientation/transfer-student-module](https://orientation.sa.ucsb.edu/transfer-orientation/transfer-student-module)
  • Complete by **August 1st** to receive an earlier registration time for Fall courses

• Submit unofficial transcripts to the PSTAT Department
  • Prerequisite clearances for Fall quarter coursework
  • Personalized recommended schedules sent prior to Fall 2024 registration
Get Social with Us:
Follow our social media accounts for updates!

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@ucsbpstat
UCSB PSTAT Department