WELCOME! PSTAT Transfer Orientation 2021

Department of Statistics And Applied Probability
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Welcoming Remarks
PSTAT Team

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Undergraduate Advisors coming soon!
Statistics & Applied Probability Department Majors

- Financial Mathematics and Statistics B.S.
- Statistics and Data Science B.S. and B.A
- Actuarial Science B.S. and B.S./M.S.
Financial Mathematics and Statistics B.S.

Offered by both PSTAT and the Math department, and in cooperation with the Economics department.

This major is intended for students interested in the financial markets. Career options for FMS majors are: financial planning, investment banking, corporate finance, etc. Many students in this major decide to pursue graduate school as well!

Check out PSTAT’s Center of Financial Mathematics and Actuarial Research
FMS Pre-Major

You must obtain a 2.5 UC GPA in the Pre-Major requirements in order to be admitted into the full major. During the quarter that you are in your last pre-major requirement, you will need to submit a Change of Major petition to the Math Department.

Recommended: Enroll in Math 8 as soon as possible! FMS students have Pass 1 priority registration

<table>
<thead>
<tr>
<th>PRE-MAJOR</th>
<th>UNITS TO COMPLETE</th>
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<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*</td>
<td>29-31</td>
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<tr>
<td>* Note: Either Math 4A, 4B, 6A, or 6B must be completed with a grade of &quot;B&quot; or better in order to take Math 8.</td>
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<thead>
<tr>
<th>PREPARATION FOR THE MAJOR</th>
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<tbody>
<tr>
<td>One course from Computer Science 8, 16, or Engineering 3</td>
<td>3-4</td>
</tr>
<tr>
<td>Economics 10A</td>
<td>5</td>
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<tr>
<td>PSTAT 10</td>
<td>5</td>
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</table>

Upon satisfactory completion of the pre-major requirements, the student must complete a change of major petition in the Department of Mathematics, 6607 South Hall, or in the Department of Statistics and Applied Probability, 5607A South Hall, and obtain the appropriate signatures.
Proposed Schedule for Financial Math and Statistics Transfers

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

Note: Math 8, ECON 10A, PSTAT 10 must be completed at UCSB.

<table>
<thead>
<tr>
<th></th>
<th>Fall</th>
<th>Winter</th>
<th>Spring</th>
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<tbody>
<tr>
<td><strong>Junior Year</strong></td>
<td>PSTAT 120A</td>
<td>PSTAT 120B</td>
<td>PSTAT 126</td>
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<td>PSTAT 10</td>
<td>ECON 10A</td>
<td>PSTAT 171 (UD Elective)</td>
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<td>MATH 8</td>
<td>MATH 117</td>
<td>UD Elective</td>
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<td>MATH 104A</td>
<td>MATH 104B</td>
<td>MATH 104C</td>
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<td>PSTAT 160A</td>
<td>PSTAT 160B</td>
<td>PSTAT 170</td>
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<td>UD Elective</td>
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UC SANTA BARBARA

Department of Statistics and Applied Probability
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 more Data Science courses such as PSTAT 115 (Bayesian Analytics), 134 (Statistical Data Science), 135 (Big Data).

How does Netflix know what you want to watch next? Data Science!

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 electives
- More specialized and better prepares students for the workforce

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, 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
Proposed Schedule for Statistics Transfers

- 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 16
- Note: Math 8, PSTAT 10 must be completed at UCSB

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<td>PSTAT 120A</td>
<td>PSTAT 120B</td>
<td>PSTAT 126</td>
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<td>PSTAT 10</td>
<td>MATH 8</td>
<td>Area C*</td>
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<td></td>
<td></td>
<td>Area C*</td>
</tr>
<tr>
<td><strong>Senior Year</strong></td>
<td>PSTAT 122</td>
<td>Area C*</td>
<td>Area D**</td>
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<td>Area C*</td>
<td>Area C*</td>
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<td>Area C*</td>
<td>Area D**</td>
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Bachelor of Science

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<td><strong>Junior Year</strong></td>
<td>PSTAT 10</td>
<td>PSTAT 120B</td>
<td>PSTAT 126</td>
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<tr>
<td></td>
<td>PSTAT 120A</td>
<td>MATH 8</td>
<td>Area B*</td>
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<tr>
<td><strong>Senior Year</strong></td>
<td>Area B*</td>
<td>Area B*</td>
<td>Area C**</td>
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<td>Area B*</td>
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<td>Area C**</td>
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Bachelor of Arts

UC SANTA BARBARA
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

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
**Proposed Schedule for Actuarial Science Transfers**

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

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<th>Junior Year</th>
<th>Fall</th>
<th>Winter</th>
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<tbody>
<tr>
<td></td>
<td>PSTAT 120A (P)</td>
<td>PSTAT 120B (P, MAS I, VEE)</td>
<td>PSTAT 126 (SRM, PA, MAS I)</td>
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<td></td>
<td>PSTAT 10</td>
<td>MATH 8</td>
<td>PSTAT 130 (SAS)*</td>
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<td></td>
<td>PSTAT 171 (FM)</td>
<td>ECON 10A (VEE)</td>
<td>PSTAT 120C (CSTAM, MAS I) *</td>
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<tr>
<td>Senior Year</td>
<td>PSTAT 160A (MAS I, II)</td>
<td>PSTAT 172A (LTAM, MAS I)</td>
<td>PSTAT 160B**(MAS I) ** OR 172B**(LTAM)</td>
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<tr>
<td></td>
<td>PSTAT 174 (SRM, MAS I)</td>
<td>PSTAT 170 (IFM)</td>
<td>172B**(LTAM) OR ECON 134A(VEE)*</td>
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<tr>
<td></td>
<td>WRITING 107B</td>
<td>PSTAT 173 (STAM, MAS I, II) *</td>
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Recommended: To complete VEE requirements, Econ 1, 2, 3A can also be taken at the previous institution. See the Society of Actuaries VEE course directory: https://www.soa.org/education/exam-req/instructions-for-vee-directory/
Actuarial Science Combined Bachelor’s and Master’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 2022

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<tr>
<th>Bachelor’s/Master’s Actuarial Science Program</th>
<th>Fall</th>
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<tr>
<td>PSTAT 160B (MAS I)</td>
<td></td>
<td>PSTAT 172A (LTAM, MAS I)</td>
<td>PSTAT 172B (LTAM)</td>
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<tr>
<td><strong>PSTAT 274 (SRM, MAS I)</strong></td>
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<td>PSTAT 170 (IFM)</td>
<td>PSTAT 130 (SAS)</td>
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<td>WRITING 107B</td>
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<td>BS Elective*</td>
<td>ECON 134A(VEE)*</td>
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<td><strong>Graduate Year</strong></td>
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<td>PSTAT 296A</td>
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<td>PSTAT 296B</td>
<td>PSTAT 276</td>
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<td>PSTAT 213A</td>
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<td>PSTAT 231</td>
<td>MS Elective**</td>
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<td>PSTAT 263 (Seminar)</td>
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Research Opportunities

- If you are interested in doing research with a PSTAT professor, you can petition for PSTAT 199: Independent Studies in Statistics
  - 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
  - PSTAT 199 can count as a major elective too!
- Apply for the Data Science Fellowship/Capstone (March 2022)
  - https://centralcoastdatascience.org/campuses/ucsb
- Attend seminars: PSTAT 263 and CFMAR
- https://undergrad.research.ucsb.edu/get-started/
- https://www.pstat.ucsb.edu/undergrad/research
Helpful Resources

- Office Hours - professors want you to come!
- Campus Learning Assistance Services (CLAS)
- Transfer Student Center
  - Academic Advising
- Undergraduate Learning Assistants
HOW DOES THE WAITLIST WORK?

• Make sure you enroll in 12 units no matter what! You must be in full time student status in order to add yourself to the waitlist.

• A helpful tool in GOLD is to link your enrolled courses with your waitlisted courses. This bypasses the unit limit for each pass time.

• Waitlists are prioritized by majors and total unit count. Once spaces are available, the waitlist will automatically add students to the course, but this only happens once or twice a day.

• The system will let anybody add to the waitlist, but if prerequisites are not met, you will not be eligible for a spot if ones open up.
Switching Lectures/Discussion Sections

Lectures:
● The only way to do this is to drop from the lecture you are currently in, and enrolling in the lecture you want. You may have to add yourself to the waitlist if the course is full, so switching lectures is risky.

Discussion Sections:
● You will need to talk to the teaching assistants of the section you have and the section you want. It is up to their discretion it allow you to unofficially switch sections.

Note: you cannot attend a section that is associated with a different lecture of the same course.
Add yourself to the department listserv!

PSTAT shares many important emails to our students via our listservs: i.e. internship/job postings, on-campus events, and other opportunities!
Remote Advising via Zoom

If you have any questions about your major, course schedule, etc. you are welcome to make an appointment via Shoreline with our advising team. More information on how to make an advising appointment can be found here: https://www.pstat.ucsb.edu/undergrad/advising

We look forward to meeting you on our beautiful campus soon!
OPPORTUNITIES! - NEW CAREER RESOURCES

• Get Involved with Student Clubs!
  • Actuarial Association
  • FACTOR (Female Actuarial Student Organization)
  • Data Science Club
• Actuarial Career Fair October 12, 2021
  • In person event
  • Virtual Info Sessions
• Resume & Interview Workshops---skills based programs
• Alumni Connection Series this winter

-- Anna Theogarajan, Academic Coordinator

Department of Statistics And Applied Probability
Finding Your Way to the Job Market

• How to make yourself marketable
  • Internship and networking opportunities
  • Communication & speaking skills
• How can we get more information about passing the actuarial science exams?
  • exam reimbursement through AA Club
  • textbooks available in office
  • Test requirements are changing at SOA
  • Micro credentials available through SOA-details coming this fall
• Questions are welcome! Email Anna at academic-coordinator@pstat.ucsb.edu

- Anna Theogarajen, Academic Coordinator
QUESTIONS?