



# WELCOME! PSTAT Transfer Orientation 2023



UC **SANTA BARBARA**  
Department of Statistics  
and Applied Probability

# Meet the PSTAT Team

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# Statistics & Applied Probability Degrees Offered

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



# Pre-Statistics and Data Science B.S. and B.A. Majors

This is our most popular major! Popular electives include PSTAT 100, PSTAT 131, PSTAT 134, and PSTAT 135. 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 PSTAT Department.

<u>PRE-MAJOR</u>	<u>UNITS TO COMPLETE</u>
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. Also, students cannot get credit for CMPSC 8 at UCSB if transferring in credit for CMPSC 9 or 16, so please see the Department advisors in such instances.

**Registration Tip:** Prioritize any pre-major and preparation for the major coursework you have left to complete! Upper-division courses are limited to full majors, it is recommended to declare the full major as soon as possible.

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

## Bachelor of Arts

- 36 total upper division units required
- Recommended for students who want to double major
- Allows students to graduate earlier
- May require more GE courses depending on IGETC or UC Reciprocity certification

## Bachelor of Science

- 48 total upper division units required
- 8 additional units of upper division electives
- PSTAT 122 is required
- 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 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, PSTAT 199 (research), and at least one UD Math course (Math 117 and/or Math 108A) is highly recommended

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# Proposed Schedule for Statistics and Data 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, CMPSC 8 and 9 (or 16).

**Notes:** PSTAT 8 (or Math 8) and PSTAT 10 must be completed at UCSB (if not completed at previous institution).

TRANSFER YEAR 1		
Fall PSTAT 120A (4 units) PSTAT 10 (4 units) PSTAT 8 (or Math 8) (5 units)*	Winter PSTAT 120B (4 units)	Spring PSTAT 126 (4 units) PSTAT ELECTIVE - Area C PSTAT ELECTIVE - Area C
TRANSFER YEAR 2		
Fall PSTAT 122 (4 units) PSTAT ELECTIVE - Area C PSTAT ELECTIVE - Area C	Winter PSTAT ELECTIVE - Area C PSTAT ELECTIVE - Area C	Spring PSTAT ELECTIVE - Area D PSTAT ELECTIVE - Area D

## Bachelor of Science

TRANSFER YEAR 1		
Fall PSTAT 120A (4 units) PSTAT 10 (4 units) PSTAT 8 (or MATH 8) (5 units)*	Winter PSTAT 120B (4 units)	Spring PSTAT 126 (4 units) PSTAT ELECTIVE - Area B
TRANSFER YEAR 2		
Fall PSTAT ELECTIVE - Area B PSTAT ELECTIVE - Area B	Winter PSTAT ELECTIVE - Area B PSTAT ELECTIVE - Area C	Spring PSTAT ELECTIVE - Area B

## Bachelor of Arts

# Pre-Actuarial Science B.S. Major

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 and earn VEE credit. Courses offered in PSTAT help you to prepare for those exams!

## Preparation Coursework for Exams:

- **P:** 120A, 120B
- **FM:** 171
- **FAM:** 170, 172A, 172B, 173, 183
- **ASTAM:** 120B, 120C, 173, 183
- **ALTAM:** 172B
- **SRM:** 126, 131, 174
- **PA:** 131
- **MAS I:** 120B, 120C, 126, 131, 160A, 172A, 173, 174
- **MAS II:** 131, 160A, 173

## Two Tracks:

- **Society of Actuaries (SOA)**
  - Life/health insurance, retirement
    - Recommended Electives: 120C, 131, 172B, 173, 175 183
- **Casualty Actuarial Society (CAS)**
  - Property and Casualty insurance (auto, home, etc.)
    - Recommended Electives: 127, 131, 160B, 173, 183

## Validation of Educational Experience (VEE):

- **Mathematical Statistics:** PSTAT 120B
- **Economics:** ECON 1 and 2
- **Finance and Accounting:** ECON 3A and 134A

*Courses must be completed with a B- or higher to earn VEE credit.*



# Pre-Actuarial Science B.S. 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 enrolled in your last pre-major/preparation for the major requirement, you will need to submit a Change of Major petition to the PSTAT Department.

**Registration Tip:** Prioritize any pre-major and preparation for the major coursework you have left to complete! Upper-division courses are limited to full majors, so it is recommended to declare the full major as soon as possible. Actuarial Science pre-majors may take WRIT 107A/B *before or after* declaring the full major.

<u>PRE-MAJOR</u>	<u>UNITS TO COMPLETE</u>
Math 2A-B or 3A-B, 4A-B, 6A-B .....	24-26_____
Math 8 or PSTAT 8* .....	5_____
PSTAT 10 .....	5_____
<b>*Note:</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.	

<u>PREPARATION FOR THE MAJOR</u>	
Computer Science 8 and either 9 or 16.....	8_____
Writing 107A or 107B .....	4_____

**Note:** CMPSC 9 is recommended over CMPSC 16. Also, students cannot get credit for CMPSC 8 at UCSB if transferring in credit for CMPSC 9 or 16, so please see the Department advisors in such instances.

Other recommended courses: Econ 1, 2, 3A, 10A (fulfills VEE), and Phil 3 or 4.

# Proposed Schedule for Actuarial Science Transfers

This schedule assumes the student has completed the lower division MATH, CMPSC, and recommended ECON courses at their previous institution: MATH 3A-B, 4A-B, 6A-B, CMPSC 8, 9 (or 16), ECON 1, 2, and 3A.

**Notes:** PSTAT 8 (or Math 8) and PSTAT 10 must be completed at UCSB (if not completed at previous institution).

TRANSFER YEAR 1		
<u>Fall</u> <b>PSTAT 120A</b> (4 units) <i>- Exam P</i> <b>PSTAT 8 or MATH 8</b> (5 units)** <b>PSTAT 10</b> (5 units)	<u>Winter</u> <b>PSTAT 120B</b> (4 units) <i>- Exams P, ASTAM</i> <i>- Mathematical Statistics VEE</i> <b>PSTAT 171</b> (4 units) <i>- Exam FM</i> <b>ECON 10A</b> (5 units)* <i>- Prerequisite for ECON 134A</i>	<u>Spring</u> <b>PSTAT 126</b> (4 units) <i>- Exams SRM, MAS I</i> <b>PSTAT 160A</b> (4 units) <i>- Exams MAS I, MAS II</i> <b>PSTAT ELECTIVE – Area D</b>
TRANSFER YEAR 2		
<u>Fall</u> <b>WRITING 107B</b> (4 units) <b>PSTAT 174</b> (4 units) <i>- Exams SRM, MAS I</i> <b>PSTAT ELECTIVE – Area D</b>	<u>Winter</u> <b>PSTAT 172A</b> (4-5 units)*** <i>- Exam FAM</i> <b>PSTAT 170</b> (4 units) <i>- Exam FAM</i>	<u>Spring</u> <b>PSTAT 172B or 160B</b> (4 units)*** <i>- PSTAT 172B: Exams FAM, ALTAM</i> <b>PSTAT ELECTIVE – Area E</b> <i>- ECON 134A*: Finance VEE</i>

# 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! Applications open each Winter quarter.
- 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 in PSTAT 296AB.
- Info Session about the BS/MS program: Winter 2024

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## BS/MS Transfer Plan of Study

TRANSFER YEAR 1		
<u>Fall</u> <b>PSTAT 120A</b> (4 units) - Exam P <b>PSTAT 8 or MATH 8</b> (5 units)** <b>PSTAT 10</b> (5 units)	<u>Winter</u> <b>PSTAT 120B</b> (4 units) - Exams P, ASTAM - Mathematical Statistics VEE <b>PSTAT 171</b> (4 units) - Exam FM <b>ECON 10A</b> (5 units)* - Prerequisite for ECON 134A	<u>Spring</u> <b>PSTAT 126</b> (4 units) - Exams SRM, MAS I <b>PSTAT 160A</b> (4 units) - Exams MAS I, MAS II <b>PSTAT 120C</b> (4 units) - Exams ASTAM, MAS I
TRANSFER YEAR 2		
<u>Fall</u> <b>WRITING 107B</b> (4 units) <b>PSTAT 274</b> (4 units) - Exams SRM, MAS I <b>PSTAT 160B</b> (4 units) <b>PSTAT 130</b> (4 units)	<u>Winter</u> <b>PSTAT 172A</b> (4-5 units)*** - Exam FAM <b>PSTAT 170</b> (4 units) - Exam FAM <b>PSTAT 231</b> (4 units) - Exams SRM, MAS I, MAS II	<u>Spring</u> <b>PSTAT 172B</b> (4 units)*** - Exams FAM, ALTAM <b>BS ELECTIVE</b> - ECON 134A*: Finance VEE <b>MS Elective</b> (4 units)
TRANSFER YEAR 3		
<u>Fall</u> <b>PSTAT 296A</b> (4 units)*** <b>PSTAT 213A</b> (4 units) <b>PSTAT 263</b> (1 unit Seminar)	<u>Winter</u> <b>PSTAT 296B</b> (4 units)*** <b>MS Elective</b> (4 units) <b>PSTAT 263</b> (1 unit Seminar)	<u>Spring</u> <b>PSTAT 276</b> (4 units)*** <b>MS Elective</b> (4 units) <b>PSTAT 263</b> (1 unit Seminar)

# Pre-Financial Mathematics and Statistics B.S. Major

Joint major 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!](#)

- Undergraduate research opportunities with CFMAR for high performing students
- Research seminars presented by CFMAR faculty throughout the academic year

# Pre-Financial Mathematics and Statistics 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**.

**Registration Tip:** Prioritize any pre-major and preparation for the major coursework you have left to complete! Upper-division MATH and PSTAT courses are limited to full majors, so it is recommended to declare the full major as soon as possible.

<u>PRE-MAJOR</u>	<u>UNITS TO COMPLETE</u>
Economics 1 and 2 .....	8 _____
Math 2A-B or 3A-B, 4A-B, 6A-B, 8 (or PSTAT 8)* .....	29-31 _____
<b>* Notes:</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.	

<u>PREPARATION FOR THE MAJOR</u>	
One course from Computer Science 8, 9, 16 or Engineering 3 .....	3-4 _____
Economics 10A .....	5 _____
PSTAT 10 .....	5 _____



# Proposed Schedule for Financial Math and Statistics Transfers

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

**Notes:** PSTAT 8 (or Math 8), PSTAT 10, and ECON 10A must be completed at UCSB (if not completed at previous institution).

Complete pre-major courses and declare the full major as soon as possible. Upper-division PSTAT and MATH courses are limited to full majors.

TRANSFER YEAR 1		
<u>Fall</u> <b>PSTAT 120A</b> (4 units) <b>PSTAT 10</b> (5 units) <b>MATH 8 (or PSTAT 8)</b> (5 units)**	<u>Winter</u> <b>ECON 10A</b> (5 units) <b>PSTAT 160A</b> (4 units) <b>PSTAT 120B</b> (4 units)	<u>Spring</u> <b>PSTAT 126</b> (4 units) <b>PSTAT 160B</b> (4 units) <b>MATH 117</b> (4 units)
TRANSFER YEAR 2		
<u>Fall</u> <b>MATH 104A</b> (4 units) <b>ELECTIVE</b> <b>ELECTIVE</b>	<u>Winter</u> <b>MATH 104B</b> (4 units) <b>PSTAT 170</b> (4 units)	<u>Spring</u> <b>MATH 104C</b> (4 units) <b>ELECTIVE</b>

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# Do I take Math 8 or PSTAT 8?

- PSTAT 8 meets the Math 8 prerequisite for only two upper division Math courses: **Math 117 and Math 104A**. All other upper division Math courses require Math 8 and do not accept PSTAT 8 as a prerequisite.
- **STSDS & ACTSC Majors:** It is recommended that you take **PSTAT 8**, but you have the option of taking MATH 8 if you are planning to take other upper division Math courses.
- **FMS Majors:** If you are planning to only take the required Math courses for the major (Math 117 and Math 104A) you may take PSTAT 8 instead of Math 8.
- **For all majors:** If you would like to take additional upper division Math courses, are considering a Math minor or double major, or if you are unsure of which electives you would like to take, we recommend you take Math 8, as PSTAT 8 limits your elective options.
- ★ PSTAT 8 is considered an illegal repeat of MATH 8, meaning you cannot take PSTAT 8 after completing MATH 8. You are also not able to take both PSTAT 8 and MATH 8 at the same time.

# PSTAT Undergraduate Research Opportunities

- **PSTAT 199: Independent Studies in Statistics**

- Independent research with a PSTAT faculty sponsor. Enrollment is by petition.
- 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 197ABC: Data Science Capstone**

- Year-long capstone sequence with research lab and industry sponsors!
- Application for 2024-2025 school year opens in Spring 2024.

- **CFMAR Undergraduate Lab**

- Research projects with the faculty in the Center of Financial Mathematics and Actuarial Research. Includes enrollment in PSTAT 199.
- 2-quarter commitment. Application for Fall 2024 - Winter 2025 cohort opens in Spring 2024.

- **PSTAT 296AB: Team Actuarial Projects**

- Team research projects under supervision of PSTAT faculty members and in coordination with industry sponsors!
- Top PSTAT seniors invited to enroll in Fall 2024 and Spring 2025.

# PSTAT Career Opportunities and Resources

- Fall 2023: Actuarial Science Career Fair
  - In-person event on **Wednesday, October 25th**
  - Virtual Info Sessions throughout the Fall quarter
  - More info coming soon!
- Resume & Interview Workshops
- Alumni Connection Series in Winter 2024
- PSTAT Student Employment Opportunities
  - Undergraduate Peer Advisors
  - Undergraduate Learning Assistants
  - Undergraduate Readers

# Get Involved in Student Clubs!

- **UCSB Actuarial Association**
  - Open to all majors!
  - SOA exam reimbursements available to paid members
  - Annual Career Fair in Fall quarter
- **Data Science UCSB**
  - Open to all majors!
  - Annual Project Showcase in Spring quarter
- **Statistics and Data Science Workshop Series**
  - Open to all majors!
  - Workshops throughout the academic year



## Recommended Tips and Resources

- Attend Office Hours - professors want you to come!
- Form study groups with your classmates!
- Campus Learning Assistance Services (CLAS)
  - Offers tutoring for lower division Math courses, PSTAT 120A, Econ 10A, and Econ 100B
  - Academic skills workshops are also available!
- UCSB Transfer Student Center
  - Transfer-specific advising available for requirements outside the major!
- Undergraduate Learning Assistants
  - PSTAT students who offer additional tutoring and office hours for upper division PSTAT courses for FREE!

# Advising Options

- If you have any questions about your major, course schedule, or more, Undergraduate Advisors and Peer Advisors are here to help!
- Email: [pstat-undergradadvisor@ucsb.edu](mailto:pstat-undergradadvisor@ucsb.edu)
- Office: South Hall 5607 (5th floor)
- Current advising hours available here: <https://www.pstat.ucsb.edu/undergrad/advising>
- ★ Reminder: All incoming PSTAT transfer students will receive a personalized schedule with recommendations for Fall quarter enrollment once they fill out the Transfer Clearance Form!



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# HOW DOES THE WAITLIST WORK?

- All waitlists are on a first come first serve basis. Waitlist settings can be viewed in GOLD under “Course Info” > “General”
- Students must be enrolled in at least 12 units to add to the waitlist. This typically will not be until Pass 2.
- **WAITLIST TIP:** Be sure to link your waitlisted course(s) to *enrolled* course(s) so you can waitlist more units.
  - Unlinked courses count toward your unit maximum.
- Keep in mind that the waitlist does not know if you are eligible to enroll. If you have not met the pre-reqs you won't be added, even if you're #1.
- The waitlist is not *realtime* and only moves once or twice a day.

## WHAT DOES MY WAITLIST POSITION NUMBER MEAN?

- You can view your waitlist position on GOLD.
- You will have a waitlist position for the lecture and for each section you have selected.
- Your *section* waitlist position(s) may fluctuate if students above you on the *lecture* waitlist alter their section preferences.
- **WAITLIST TIP:** Select as many sections as possible when adding yourself to the waitlist.

# 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 if 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 PSTAT department listserv!

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

Link to join: <https://groups.google.com/u/1/a/pstat.ucsb.edu/g/pstat-undergrad?hl=en>

- ★ Check your UCSB umail account frequently, as this is how the PSTAT Department communicates with its students!



# Fill out the Transfer Clearance Form!

Due to the volume of new transfer students, your official transcript from your previous institution will not be fully articulated to UCSB Admissions by the time Fall quarter starts.

The PSTAT Department will manually clear your prerequisites using your response to this form. Fill it out ASAP to avoid processing and registration delays!

Link: <https://forms.gle/kKCMMt7W3ExKoDr59>



# STUDENT RESOURCES

## Advising Resources

- [PSTAT Advising](#)
- [College of Letters & Science Advising](#)
- [Transfer Student Advising](#)
- [PSTAT General Catalog](#)
- [PSTAT Change of Major Policies](#)
- [PSTAT 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](#)

# QUESTIONS?

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# Get Social with Us:

Follow our social media accounts for updates!



@ucsbpstat



UCSB PSTAT Department



UCSB PSTAT Students & Alumni



PSTAT Events Google Calendar

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