

# WELCOME! PSTAT Transfer Orientation 2022



Department of Statistics And Applied Probability

**UC SANTA BARBARA**

# Meet the PSTAT Team

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# 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.

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

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), PSTAT 134 (Statistical Data Science), and PSTAT 135 (Big Data).

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.

<u>PREPARATION FOR THE MAJOR</u>	
Computer Science 8 and either 9 or 16 .....	8_____

**Note:** CMPSC 9 is recommended over CMPSC 16.

**Registration Tip:** Enroll in PSTAT 8 as soon as possible! Statistics and Data Science students have Pass 1 priority registration. Find more information about PSTAT 8 here: [PSTAT 8 FAQs](#)



# 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 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

# 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.

Complete pre-major courses as soon as possible, as upper-division courses are limited to full majors.

THIRD YEAR		
<u>Fall Quarter</u>	<u>Winter Quarter</u>	<u>Spring Quarter</u>
PSTAT 120A (4 units)	PSTAT 120B (4 units)	PSTAT 126 (4 units)
PSTAT 10 (4 units)		PSTAT ELECTIVE - Area C
PSTAT 8 (or Math 8) (5 units)*		
FOURTH YEAR		
<u>Fall Quarter</u>	<u>Winter Quarter</u>	<u>Spring Quarter</u>
PSTAT ELECTIVE - Area C	PSTAT ELECTIVE - Area C	PSTAT ELECTIVE - Area C
PSTAT ELECTIVE - Area C	PSTAT ELECTIVE - Area D	PSTAT ELECTIVE - Area D

Bachelor of Arts

THIRD YEAR		
<u>Fall Quarter</u>	<u>Winter Quarter</u>	<u>Spring Quarter</u>
PSTAT 120A (4 units)	PSTAT 120B (4 units)	PSTAT 126 (4 units)
PSTAT 10 (4 units)		PSTAT ELECTIVE - Area C
PSTAT 8 (or Math 8) (5 units)*		PSTAT ELECTIVE - Area C
FOURTH YEAR		
<u>Fall Quarter</u>	<u>Winter Quarter</u>	<u>Spring Quarter</u>
PSTAT 122 (4 units)	PSTAT ELECTIVE - Area C	PSTAT ELECTIVE - Area C
PSTAT ELECTIVE - Area C	PSTAT ELECTIVE - Area D	PSTAT ELECTIVE - Area D
PSTAT ELECTIVE - Area C		

Bachelor of Science

# 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. 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



# 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 in your last pre-major requirement, you will need to submit a Change of Major petition to the PSTAT Department.

**Registration Tip:** Enroll in PSTAT 8 as soon as possible! ACTSC students have Pass 1 priority registration for PSTAT 8.

**PRE-MAJOR**

**UNITS TO COMPLETE**

Math 2A-B or 3A-B, 4A-B, 6A-B .....	24-26	_____
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 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**

Computer Science 8 and either 9 or 16 .....	8	_____
Writing 107A or 107B.....	4	_____

# Proposed Schedule for Actuarial Science Transfers

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

**Note:** PSTAT 8 or Math 8 and PSTAT 10 must be completed at UCSB

THIRD YEAR		
<u>Fall Quarter</u>	<u>Winter Quarter</u>	<u>Spring Quarter</u>
<b>PSTAT 120A</b> (4 units) – P	<b>PSTAT 171</b> (4 units) – FM	<b>PSTAT 126</b> (4 units) – SRM, PA, MAS I
<b>PSTAT 8</b> (5 units)	<b>PSTAT 120B</b> (4 units) – P, MAS I, VEE	<b>PSTAT 160A</b> (4 units) – MAS I, MAS II
<b>PSTAT 10</b> (5 units)	<b>ECON 10A</b> (4 units) – VEE	<b>PSTAT ELECTIVE</b> – Area D
FOURTH YEAR		
<u>Fall Quarter</u>	<u>Winter Quarter</u>	<u>Spring Quarter</u>
<b>WRITING 107B</b> (4 units)	<b>PSTAT 172A</b> (4-5 units) – LTAM, MAS I	<b>PSTAT 172B OR 160B</b> (4 units) – LTAM FOR 172B ONLY
<b>PSTAT 174</b> (4 units) – SRM, MAS I	<b>PSTAT 170</b> (4 units) – IFM	<b>PSTAT ELECTIVE</b> – Area E
<b>PSTAT ELECTIVE</b> – Area D		

**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/>

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# 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 2023

**Bachelor's/Master's Actuarial Science Program**

	<b>Fall</b>	<b>Winter</b>	<b>Spring</b>
<b>Junior Year</b>	PSTAT 120A (P) PSTAT 10 PSTAT 8 (MATH 8)	PSTAT 120B (P, MAS I, VEE) PSTAT 171 (FM) ECON 10A (VEE)	PSTAT 126 (SRM, PA, MAS I) PSTAT 120C (CSTAM, MAS I) PSTAT 160A (MAS I, II)
<b>Senior Year</b>	PSTAT 160B (MAS I) <b>PSTAT 274</b> (SRM, MAS I) WRITING 107B	PSTAT 172A (LTAM, MAS I) PSTAT 170 (IFM) BS Elective*	PSTAT 172B (LTAM) PSTAT 130 (SAS) ECON 134A(VEE)*
<b>Graduate Year</b>	PSTAT 296A PSTAT 213A MS Elective** PSTAT 263 (Seminar)	PSTAT 296B <b>PSTAT 231</b> MS Elective** PSTAT 263 (Seminar)	<b>PSTAT 276</b> MS Elective** PSTAT 263 (Seminar)

## Pre-Financial Mathematics and Statistics B.S. 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](#)!

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Center for Financial Mathematics  
and Actuarial Research

# 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:** Enroll in Math 8 or PSTAT 8 as soon as possible! FMS students have Pass 1 priority registration for both Math 8 and PSTAT 8.

<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 and CMPSC courses at their previous institution: Math 3A-B, Math 4A-B, Math 6A-B, CMPSC 8 and 9 (or 16)

**Note:** PSTAT 8 or Math 8, ECON 10A, and PSTAT 10 must be completed at UCSB

THIRD YEAR		
<u>Fall Quarter</u>	<u>Winter Quarter</u>	<u>Spring Quarter</u>
<b>PSTAT 120A</b> (4 units)	<b>ECON 10A</b> (5 units)	<b>PSTAT 126</b> (4 units)
<b>PSTAT 10</b> (5 units)	<b>PSTAT 160A</b> (4 units)	<b>PSTAT 160B</b> (4 units)
<b>MATH 8 (or PSTAT 8)</b> (5 units)**	<b>PSTAT 120B</b> (4 units)	<b>MATH 117</b> (4 units)
FOURTH YEAR		
<u>Fall Quarter</u>	<u>Winter Quarter</u>	<u>Spring Quarter</u>
<b>MATH 104A</b> (4 units)	<b>MATH 104B</b> (4 units)	<b>MATH 104C</b> (4 units)
<b>PSTAT 171</b> (4 units)***	<b>PSTAT 170</b> (4 units)	<b>PSTAT ELECTIVE*</b>
<b>PSTAT 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.
- **Please note that you are not able to take both Math 8 and PSTAT 8.**

# 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 2023)
  - <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>

# Career Opportunities and Resources

- Get Involved with Student Clubs!
  - Actuarial Association
  - FACTOR (Female Actuarial Student Organization)
  - Data Science Club
  - Finance Connection
- Fall 2022: Statistics and Data Science and Actuarial Science Career Fairs
  - In person event
  - Virtual Info Sessions
- Resume & Interview Workshops---skills based programs
- Alumni Connection Series this winter
- PSTAT Student Employment Opportunities
  - Peer Advisors
  - Undergraduate Learning Assistants
  - Undergraduate Readers

# 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 Actuarial Association
  - Textbooks available in office
  - Test requirements are changing at SOA
  - Micro credentials available through SOA
- Questions are welcome! Email Anna at [academic-coordinator@pstat.ucsb.edu](mailto:academic-coordinator@pstat.ucsb.edu)



## Recommended Tips

- Office Hours - professors want you to come!
- Form study groups with your classmates
- Campus Learning Assistance Services (CLAS) - they offer tutoring for lower division Math courses, Econ 10A, and academic skills workshops
- Transfer Student Center [Academic Advising](#)
- 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 available 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>



## 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 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>



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## 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/CnUDsxnZj3koPAd67>

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# 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](#)

# QUESTIONS?

# Get Social with Us:

Follow our social media accounts for updates!



@ucsbpstat



@ucsbpstat



UCSB PSTAT Department