

## OVERVIEW of the Minor

Statisticians help to design data collection plans, analyze data appropriately and interpret and draw conclusions from those analyses. Students who want to study a significant amount of Statistics and Probability at the upper division level can complete a minor in Statistics. The minor will provide them with formal recognition for their effort on their transcript but not on their diploma.

## MINOR REQUIREMENTS – ALL courses must be taken for a LETTER GRADE

A total of 4 lower division and 5 upper division courses are required for the minor, with a minimum overall grade-point average of 2.0 earned in upper division courses. Up to one upper division course may overlap between a major and the Statistics minor.

### Lower Division Prerequisites (4 courses):

- Math 1A Calculus
- Math 1B Calculus
- Math 53 Multivariable Calculus
- Math 54 Linear Algebra and Differential Equations

\* Currently, each of the four prerequisites must be completed with a minimum grade of C for the minor.

\*\* AP credit and equivalent non-Berkeley courses (as evaluated by assist.org or the Math Department) are acceptable.

### Core Statistics Courses (2 courses):

- Stat 134 Concepts of Probability **OR**  
Stat 140 Probability for Data Science
- Stat 135 Concepts of Statistics

### Statistics Electives (3 courses), at least 1 LAB:

*Choose from:*

- Stat 150 Stochastic Processes
- Stat 151A (LAB) Linear Modeling: Theory and Applications
- Stat 152 (LAB) Sampling Surveys
- Stat 153 (LAB) Introduction to Time Series
- Stat 154 (LAB) Modern Statistical Prediction and Machine Learning
- Stat 155 Game Theory
- Stat 157 Seminar on Topics in Probability & Statistics
- Stat 158 (LAB) The Design and Analysis of Experiments
- Stat 159 (LAB) Reproducible and Collaborative Data Science
- Graduate courses must be approved by Undergraduate Faculty Advisor

## ENROLLMENT ISSUES IN PURSUIT OF A MINOR IN STATISTICS

The Statistics major has been growing. As a result, Statistics courses are impacted and seats are reserved for declared majors in Stat 133, 135 and all Stat 15x-level electives. While the department has been increasing its course offerings during the fall and spring semesters, we are, unfortunately, not able to extend the same priority to Statistics minors at this time. It is often difficult for intended Statistics minors to enroll in the most popular upper division Stat courses such as Stat 151A and 153. Summer Session provides a good opportunity for non-majors to take Stat 133, 134, 135 and 155, as all course enrollments are on a first come, first served basis (no priority is given to declared majors during Summer Session). During fall and spring, intended minors are advised to try to get on the waiting list in Phase I.

## PROCEDURE FOR COMPLETING THE MINOR

- Fill in **Statistics Worksheet for the Minor** and **Program Plan** worksheet.
- Consult with the Undergraduate Staff Advisors or Faculty Advisor to review Program Plan.
- Submit **Worksheet** and **Program Plan** to Undergraduate Staff Advisor in 367 Evans.
- After completing courses, fill out the **Completion of L&S Minor** and **Major/Minor Overlap Check** forms (obtain from L&S Office of Undergraduate Advising in 206 Evans Hall or <https://ls.berkeley.edu/sites/default/files/advcompletionoflnsminor.pdf>).
- Submit all forms to Advising Staff in 367 Evans.

## CONTACT INFORMATION

### **Undergraduate Faculty Advisor:**

David Aldous  
aldousdj@berkeley.edu  
351 Evans Hall

### **Undergraduate Staff Advisors:**

Denise Yee  
369 Evans Hall | 510-643-6131  
dyee@berkeley.edu

Majabeen Samadi  
367A Evans Hall | 510-643-2459  
majabeen@berkeley.edu

**Undergraduate major website including Advising Hours:** <http://statistics.berkeley.edu/programs/undergrad/advising>  
**Department address:** 367 Evans Hall #3860 | Berkeley CA 94720-3860

# Department of Statistics

University of California, Berkeley

## Worksheet for the Minor in Statistics

Prospective Minors: Fill out Student Information and Lower Division Information

Date: \_\_\_\_\_

### STUDENT INFORMATION

Name: (last, first, middle)		SID#:	
UC Berkeley E-mail : (notices will be sent here so be sure to check this account)		Expected Graduation Semester:	Semester you expect to complete minor:
Major(s):		Course(s) overlapping with Major(s) (limit 1 per major):	

### LOWER DIVISION

Minimum grade of C in each course. AP credit and equivalent non-Berkeley courses (as evaluated by assist.org or the Math Department) are acceptable.

Department	Course	Semester	Grade	Notes (e.g. AP exam & score, community college, other university)
Math	1a (Calculus)			
Math	1b (Calculus)			
Math	53 (Multivariable Calculus)			
Math	54 (Linear Algebra & Differential Equations)			

### UPPER DIVISION

All of these courses must be taken on a Letter Grade basis and are 4 units unless otherwise noted.

	Course	Semester	Grade	Notes
Core Courses: Stat 134 (or 140) and Stat 135	Stat 134 (3) or 140 (4)			
	135			
THREE of these Stat 15x-level courses • at least one must have a lab	Stat 150 (3)			
	151A (lab)			
	152 (lab)			
	153 (lab)			
	154 (lab)			
	155 (3)			
	157 (3)			
	158 (lab)			
	159 (lab)			
	Stat #s >159			

Notes:

When you have completed the minor prerequisites, see Statistics Undergraduate Advising Staff who will review your Worksheet and a Program Plan. See front page for contact information.