

COLLEGE OF CHEMISTRY COURSE GUIDE (../INDEX.HTML)

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STAT 134 - CONCEPTS OF PROBABILITY (4 UNITS)

COURSE OVERVIEW

SUMMARY

Statistics 134 provides a background in probability. The course goes through some basic common random variable distributions, their characteristics, and applications.

PREREQUISITES

Math 53

Refer to this course website (<https://www.stat.berkeley.edu/~ani/s134s17/prereq.pdf>)

TOPICS COVERED

- Random variables
- Mean, Variance, Covariance
- Discrete Distributions
 - Binomial, Geometric, Poisson, etc.
- Continuous Distributions
 - Normal, Exponential, Gamma, Beta, etc.
- Joint Distributions
- Conditional probability

WORKLOAD

COURSEWORK

- 1 midterm, 1 final
- Biweekly quizzes in section
- Weekly homework

TIME COMMITMENT

3 hours of lecture per week, 2 hours of section per week. Approximately 2-3 hours for each homework (weekly).

CHOOSING THE COURSE

WHEN TO TAKE

Because this course is a key prerequisite for upper division Statistics electives, this should be taken around your sophomore year if you plan to take those courses. Otherwise, Stat 134 can be taken at any time.

WHAT NEXT?

The course is a prerequisite to Stat 135: Concepts of Statistics ([stat135.html](#)). This in turn is a prerequisite to most of the upper division statistics electives, such as Linear Regression, Machine Learning, and Stochastic Processes.

ADDITIONAL COMMENTS AND TIPS

The pacing and work of this course may vary depend on the professor teaching it. The adjunct course Stat 198 is an SLC course to supplement Stat 134. Stat 140 is an equivalent course with a greater focus on applications towards Data Science.

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([https://www.facstaff.sfsu.edu/~jgibson/teaching/2013spring/peer-](https://www.facstaff.sfsu.edu/~jgibson/teaching/2013spring/peer-advising/)