

INTRODUCTION TO BIOLOGICAL STATISTICS

Jose Toledo Luna

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ABOUT

Lecturer: Jose Toledo Luna

Academics:

- B.A Statistics (CSUF)
- M.S Statistics (CSUF)
- Ph.D Statistics (UCLA)

Teaching: I began teaching in 2019 at CSUF, now starting UCI (2026)

first time teaching quarter system (10 weeks), semester is (16 weeks)

COURSE OUTLINE

Introductory statistical techniques used to collect and analyze experimental and observational data from health sciences and biology.

- Includes exploration of data
- Probability and sampling distributions
- Basic statistical inference for means and proportions
- Linear regression
- Analysis of variance (ANOVA)

LECTURES/OFFICE HOURS

Lecture: Tuesday/Thursday: 2:00pm–3:20pm @ HIB 100

OH: Tuesday/Thursday: 10:00am–11:00am @ DBH-2054

Please stop by office hours and introduce yourself! Office hours are useful for one-on-one help on assignments, discussion of topics discussed in the reading, or broader questions about statistics and data science

DISCUSSIONS

TA	Email	Discussions
James Albert Nguyen	janguye5@uci.edu	A1: Friday 9:00am–9:50am A2: Friday 10:00am–10:50am (ICS 180)
Hanpu Shen	hanpus1@uci.edu	A3: Friday 11:00am–11:50am A4: Friday 12:00pm–12:50pm (ICS 180)

! Important

Discussions are mandatory. The TA will hold quizzes every other Friday.

REQUIRED MATERIALS

- *Openintro: Introductory Statistics for the Life and Biomedical Sciences*, 1st Edition, by Julie Vu and David Harrington.
- R programming language
- R studio
- Calculator for quizzes/exams

Note

All content for this course will be hosted on my personal website not CANVAS

Class Website: <https://uci-stats8.netlify.app>

GRADING METHODS

Assignment	Description	Points
Homework	Helps connect course concepts and develop a deeper understanding of the overall material.	5 total: 10 points each (<i>50 points</i>)
Course Quizzes	Assigned approximately every other week. Serve as checkpoints for progress and preparation for the cumulative final exam.	4 total: 20 points each (<i>80 points</i>)
Labs	Provide hands-on practice applying statistical concepts through coding in R.	4 total: 20 points each (<i>80 points</i>)
Midterm	Assesses students' understanding and application of key concepts covered in the first half of the course.	<i>50 points</i>
Final Exam	Taken in class during finals week; bring a valid ID, calculator, and one cheatsheet (front/back)	<i>75 points</i>

GRADE SCALE

Note

This class is points based, there are no weights.

Your grade: (total points earned)/335

Grades will not be curved.

Grade	Percentage
A+	97–100
A	93–96.9
A-	90–92.9
B+	87–89.9
B	83–86.9
B-	80–82.9

Grade	Percentage
C+	77–79.9
C	73–76.9
C-	70–72.9
D+	67–69.9
D	63–66.9
D-	60–62.9
F	Below 60

Important

There are no extensions for late work, or make up for quizzes/exams. Do not ask for extra credit.

GRADESCOPE

Note

I will create the assignment on CANVAS only for syncing grades purposes, you will submit assignments through gradescope not CANVAS

If you are enrolled in the class you should have access to gradescope already

Gradescope Link: <https://www.gradescope.com>

Sign in using your @uci.edu email

Important

There are no extensions for late work.

CAMPUSWIRE

Sign Up Link: <https://campuswire.com/p/G317FEA5E>

Code: 9219

Create discussions for any questions you have regarding the course.

- Homework, lab, TA discussion questions/comments are made though here
- Can post anonymously (if needed)
- Myself, TAs, and other students can help you out
- Do not simply ask for solutions

COMMUNICATION EXPECTATIONS

Email: jtoledol@uci.edu

! Important

Email the professor if the situation **only applies to you** and is a personal manner. Otherwise, create a discussion/question using campuswire so the TA, myself and other students can assist you.

If you email me, please note a response can take up to 24 hours on work days (Monday-Friday).

AI

- **Do not let AI do the thinking for you!!** Avoid simply copying the questions into the text prompt and copying the output.
- Try to solve the problem yourself, you will not have access to LLMs during quizzes/exams.

