
Instructor: Brian Sittinger
Email: brian.sittinger@csuci.edu
Office: Bell Tower 2840
Office Hours: MW 10:30 - 11:30 AM, and by appointment.
Class Times: TuTh 12:00 - 1:15 PM
Class Location: Bell Tower 1494

Prerequisites: Math 151, or equivalent coursework.


Course Website: [http://faculty.csuci.edu/brian.sittinger/math352page.html](http://faculty.csuci.edu/brian.sittinger/math352page.html)
This may be also directly accessed through Blackboard (CI Learn).

Course Description from the Course Catalog: Topics include: Data gathering, analysis and display. Validity of sampling methods and statistical conclusions. Probability, conditional probability, Bayes Theorem, discrete and continuous random variables and their distribution (e.g., binomial, Poisson, hypergeometric, negative binomial, normal, exponential, gamma), moments, bivariate distributions, transformations of random variables, central and other limit theorems. Bayesian estimates, tests of hypotheses, nonparametric tests, decision theory. Modern computer software applications in statistics.

Learning Outcomes: Through this course, students will be able to

- Discuss the essential concepts of probability and statistics.
- Analyze a theoretical basis of probability theory and mathematical statistics.
- Demonstrate the possible applications of this theory to applied models in various contexts.
- Formulate real world statistics and probability problems in the language of mathematics.
- Prove, estimate, and explain the essential concepts of probability and statistics.
Grading: Grades will be determined as follows:

- Homework (20%)
- Two Exams (20% each)
- Final Exam (40%)

Homework: I will assign homework daily to be turned in on every Tuesday (unless otherwise stated) at the beginning of lecture. Make sure that your presentations are well-organised. If you use more than one sheet of paper, please write your name at the top of each sheet, and be sure to staple them all together. This will make my job to grade them much easier. No late homework will be accepted more than 2 weeks after the official due date, no exceptions!

Exams: The two exams will be given around the sixth and twelfth weeks of lecture. The final exam will take place on Tuesday 13 May from 10:30 to 12:30 AM. Unless you have a genuine doctor’s note, you have to take the exams when they are given.

Math 399: Please sign up for Math 399 Sections 4 or 9. Further instructions will be given in the lab.

Academic Honesty: Cheating and plagiarism will not be tolerated in this class. For information on the University’s policy, please read the University Catalog (“Policies and Regulations” section).

Disability Statement: Cal State Channel Islands is committed to equal educational opportunities for qualified students with disabilities in compliance with Section 504 of the Federal Rehabilitation Act of 1973 and the Americans with Disabilities Act (ADA) of 1990. The mission of Disability Accommodation Services is to assist students with disabilities to realize their academic and personal potential. Students with physical, learning, or other disabilities are encouraged to contact the Disability Accommodation Services office at (805) 437-8510 for personal assistance and accommodations.

Disclaimer Statement: Information contained within this syllabus, other than that mandated by the University, may be subject to change with advance notice, as deemed appropriate by the instructor.