

STAT 3330

Probability Course Information

Classes: No scheduled meeting times.

Term: Spring 2023

Instructor: Víctor Hugo Jiménez Nava

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Office: Library 514

Office Hours: Tuesday, Thursday and Friday from 1:30 P.M. to 3:00 P.M. or by appointment.

Prerequisite: MATH 2313 Calculus III with a grade C or better. Besides, it is assumed that the student has experience with pure math courses.

Text: Introduction to Probability by Joseph K. Blitzstein and Jessica Hwang, Chapman and Hall/CRC, 2015. ISBN 13: 978-1-4987-5976-2. (Not mandatory but recommended).

Required Technology:

The statistical programming software R will be also used in the course to extend some concepts and examples given in the course. A scientific calculator will be enough for some computations.

Catalog Description:

This course is an introduction to probability from a more formal and mathematical point of view. It will cover probability and counting, conditional probability, random variables, probability distributions, expectations, special random variables, joint distributions, transformations, conditional expectation and some limit theorems.

Assignments: Assignments for each section will be provided with exercises based mainly on the video notes.

Discussion Boards: A forum for debate where students will have to participate about a question or topic provided by the instructor.

Normal activities and R activities: Activities where you will have to follow some instructions provided by the instructor will be assigned eventually. Sometimes, some R activities will be assigned too. I will provide you with examples of using R or the necessary commands before assigning a given activity.

Exams:

There will be three exams and one final comprehensive exam.

At least one week before an exam takes place, I will let you know, so that you can be ready for the test. The exam will be based on the exercises from the assignments, activities and on the video notes.

Distribution of Credit:

Three Exams	30%
Assignments and Activities	40%
Final Comprehensive Exam	30%

Academic misconduct

Academic misconduct (plagiarism, cheating, or any other form) is a very serious academic offense and will be dealt with rigorously.

Disabilities

If you have or believe you have a disability that will require accommodations or modifications, you may wish to self-identify by contacting the Disabled Student Services Office (DSSO; 747-5148; East Union Building room 108; slopez@utep.edu; www.utep.edu/dsso/) to show documentation or register for testing and services. DSSO will ask you to discuss needed accommodations with me within the first 2 weeks of the semester or as soon as disability is known, and at least 5 working days before an exam. DSSO provides note taking, sign language, interpreter, reader and/or scribe services, priority registration, adaptive technology, diagnostic testing for learning disabilities, assistance with learning strategies/tutoring, alternative testing location and format, and advocacy. All information provided to DSSO is kept strictly confidential.

Final Exam: The comprehensive final exam will be given during the finals week on date to be announced.

COVID-19 Statement

Please stay home if you have been diagnosed with COVID-19 or are experiencing COVID-19 symptoms. If you are feeling unwell, please let me know as soon as possible, so that we can work on appropriate accommodations. If you have tested positive for COVID-19, you are encouraged to report your results to covidaction@utep.edu, so that the Dean of Students Office can provide you with support and help with communication with your professors. The Student Health Center is equipped to provide COVID 19 testing.

The Center for Disease Control and Prevention recommends that people in areas of substantial or high COVID-19 transmission wear face masks when indoors in groups of people. The best way that Miners can take care of Miners is to get the vaccine. If you still need the vaccine, it is widely available in the El Paso area, and will be available at no charge on campus during the first week of classes. For more information about the current rates, testing, and vaccinations, please visit epstrong.org