

CLASSROOM: Jepson 109

TIME: MWF: 1:10-2:00

INSTRUCTOR: Logan Axon

EMAIL: axon@gonzaga.edu

OFFICE: Herak 221

OFFICE HOURS: MWF 2:15-3:45, Th 11-12 in the Math Lab

TEXTBOOK: *Probability and Statistics for Engineering and the Sciences*, 7<sup>th</sup> ed. by Devore

## DESCRIPTION:

The goal of the course is to develop a basic understanding of probability and statistics. This involves the interpretation of statements involving probabilities or statistics as well as the calculation of probabilities and statistics. Correct reasoning about probabilities often leads to counterintuitive solutions and so students must also learn to work in a precise way without relying on guesses.

Topics to be covered include the fundamentals of probability, discrete and continuous random variables, joint distributions, confidence intervals, hypothesis testing, and regression. This means we will cover the following chapters of the textbook: 1-9, 12, and 13.

## GRADING:

Your final grade for the class will be based on exams, homework, and class participation. There will be 3 midterm exams (each worth 12%) and one final exam (worth 24%). Homework will be collected on a weekly basis.

Homework, class participation, and exams will contribute to the final grade in the following proportions:

Exams:	60 %
Homework:	35 %
Class participation:	5 %

## GUIDELINES FOR HOMEWORK:

Solutions to homework problems should be neatly written with all necessary work shown and the final answer clearly marked. If I can't find the answer, you won't get credit. You may want to do the work on a separate sheet and only write a final version once you have found a solution. Where appropriate you should use complete English sentences to explain your reasoning.

## ACCESSIBILITY TO STUDENTS WITH DISABILITIES:

Students with disabilities seeking accommodation should work with the DREAM office (x4134) to provide appropriate documentation. Advanced notice of up to 48 hours may be required for some accommodations.

## CHANGES TO THESE POLICIES:

The policies outlined herein are subject to change. Any changes will be announced in class.