George Mason University
Math 352
Course Syllabus

Date   Fall 2021
Title   Mathematical Statistics
Course   Math 352-001
Location
Time   MW 9AM - 10:15AM

Professor: Dr Eckley
            deckley2@gmu.edu
            mobile #: 571 277 7927 (use sparingly)
            office #:   703 993 1682
            office hours: MW 10:30 – 11:30 and W 1:30 – 5:30

Description

The book is <u>An Introduction to Mathematical Statistics</u> 5th or later Edition, by Larsen and Marx.

This course deals with the various aspects of random variables and statistical modeling. It may appeal to both applied-math (engineering, statistics, actuarial science) oriented students and theoretically oriented students.

Procedures

The class will consist mostly of a series of lectures. I am of a practical rather than theoretical orientation. Often we will do calculations together in spreadsheet, shown on the whiteboard.

Grading will be divided as follows:

    Progress Tests (5)   75
    Final exam   25

I will grade on a curve at the end of the semester. The curve will be no more harsh than 90/80/70/60, and may well be more lenient than that.

Attendance

I do not take attendance, but it is a small enough class that I will know.

Calendar

Date   Topic   Reference to Book

23-Aug   Probability   Ch 2

25-Aug	Probability	Ch 2
30-Aug	Random Variables	Ch 3
01-Sep	Random Variables	Ch 3
06-Sep	NO CLASS (Labor Day)	
08-Sep	Progress Test #1	
13-Sep	Probability Distributions	Ch 4
15-Sep	Probability Distributions	Ch 4
20-Sep	Probability Distributions	Ch 4
22-Sep	Estimation	Ch 5
27-Sep	Estimation	Ch 5
29-Sep	Estimation	Ch 5
04-Oct	Review	
06-Oct	Progress Test #2	
12-Oct	Simulation	N/A
13-Oct	Simulation	N/A
18-Oct	Confidence Intervals	Ch 6
20-Oct	Confidence Intervals	Ch 6
25-Oct	Review	
27-Oct	Progress Test #3	
01-Nov	Uses of the Normal Distribution	Ch 7
03-Nov	Uses of the Normal Distribution	Ch 7
08-Nov	Regression	Ch 11
10-Nov	Regression	Ch 11
15-Nov	Progress Test #4	
17-Nov	Goodness of Fit	Ch 10
22-Nov	Nonparametric Statistics	Ch 14
24-Nov	Thanksgiving Break	
29-Nov	Progress Test 5	
01-Dec	Review	
06-Dec	Reading Day	
13-Dec	Final Exam 7:30am – 10:15am	