

**George Mason University**  
**Math 352**  
**Course Syllabus**

Date            Fall 2020  
Title            Mathematical Statistics  
Course          Math 352-001  
Location        Online (Blackboard Collaborate Ultra)  
Time            MW 4:30PM - 5:45PM

Professor:     Dr Eckley  
                  [deckley2@gmu.edu](mailto:deckley2@gmu.edu)  
                  mobile #: 571 277 7927 (use sparingly)  
                  office #        N/A because of Covid  
                  office hours   N/A because of Covid

**Description**

The book is An Introduction to Mathematical Statistics 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. The lecture will be online (Blackboard Collaborate Ultra), with screen sharing. In effect, my computer screen becomes the whiteboard that I would use if we were meeting in person.

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, and I will TRY to remember to record each lecture. DON'T MISS any of the progress exams (or the final).

**Calendar**

Date	Topic	Reference to Book
------	-------	-------------------

24-Aug	Probability	Ch 2
26-Aug	Probability	Ch 2
31-Aug	Random Variables	Ch 3
02-Sep	Random Variables	Ch 3
07-Sep	NO CLASS (Labor Day)	
09-Sep	Progress Test #1	
14-Sep	Probability Distributions	Ch 4
16-Sep	Probability Distributions	Ch 4
21-Sep	Probability Distributions	Ch 4
23-Sep	Estimation	Ch 5
28-Sep	Estimation	Ch 5
30-Sep	Estimation	Ch 5
05-Oct	Review	
07-Oct	Progress Test #2	
12-Oct	Simulation	N/A
14-Oct	Simulation	N/A
19-Oct	Confidence Intervals	Ch 6
21-Oct	Confidence Intervals	Ch 6
26-Oct	Review	
28-Oct	Progress Test #3	
02-Nov	Uses of the Normal Distribution	Ch 7
04-Nov	Uses of the Normal Distribution	Ch 7
09-Nov	Regression	Ch 11
11-Nov	Regression	Ch 11
16-Nov	Progress Test #4	
18-Nov	Goodness of Fit	Ch 10
23-Nov	Goodness of Fit	Ch 10
25-Nov	Thanksgiving Break	
30-Nov	Nonparametric Statistics	Ch 14
02-Dec	Nonparametric Statistics	Ch 14
07-Dec	Review	
09-Dec	Progress Test #5	
14-Dec	Reading Day	
16-Dec	Final Exam	