

George Mason University
Math 352
Course Syllabus

Date Fall 2017
Title Mathematical Statistics
Course Math 352
Location Robinson Hall Room B208
Time Tue 7:20PM - 10PM

Professor: Dr Eckley
 deckley@gmu.edu
 mobile #: 571 277 7927 (use sparingly)
 office #: 703 993 1682
 office: Exploratory Hall room 4451
 office hours: Tue and Thu 1pm-to-7pm

Description

This course helps the student prepare for the Probability exam, ie exam "P", in the Society of Actuaries sequence (exam 1 in the Casualty Actuarial Society sequence). This course covers most of the required material for the exam (Math 351 can also be very useful).

The book is An Introduction to Mathematical Statistics 5th Edition, by Larsen and Marx.

Procedures

The class will consist mostly of a series of lectures.

Grading will be divided as follows:

| | |
|------------------|----|
| Quizzes/Homework | 30 |
| Progress Tests | 30 |
| Final exam | 40 |

We will have two progress tests.

The final exam will be taken, essentially, from my test bank of 300 SOA exam-type problems. Thus it is a cumulative final exam.

We will use a OneDrive folder for handing in quizzes

Proceed as follows:

<https://onedrive.live.com/about/en-us/>
click on "Go to my OneDrive"
enter your prof's email, ie "deckley2@gmu.edu"

enter the password, ie "fall2017"

Now you should see two folders, one for my Math 110 class, the other for my Math 352 class

Please upload your work into the folder for your class

Please also retain a copy of your work in your own computer

Calendar

| Date | Topic | Reference to Book |
|--------|---------------------------------|-------------------|
| 29-Aug | Probability | Ch 2 |
| 05-Sep | Random Variables | Ch 3 |
| 12-Sep | Probability Distributions - I | Ch 4 |
| 19-Sep | Probability Distributions - II | Ch 4 |
| 26-Sep | Progress Test #1 | |
| 03-Oct | Estimation - I | Ch 5 |
| 10-Oct | No class | |
| 17-Oct | Estimation - II | Ch 5 |
| 24-Oct | Simulation | N/A |
| 31-Oct | Confidence Intervals | Ch 6 |
| 07-Nov | Uses of the Normal Distribution | Ch 7 |
| 14-Nov | Review | |
| 21-Nov | No Class | |
| 28-Nov | Progress Test #2 | |
| 05-Dec | Review | |
| 12-Dec | Final Exam | |