George Mason University
Math 110-001
Course Syllabus

Term   Fall 2018
Title   Probability
Course   Math 110-001-74479
Location   Peterson 1113
Time   Tue and Thu 10:30 - 11:45
Professor: Douglas Eckley
              deckley2@gmu.edu
              mobile #   571 277 7927 (use sparingly)
              office #   703 993 1682
              office hours   Tue noon - 4pm and Wed 1:30 - 7pm

Description

This course meets the quantitative reasoning requirement of the Mason Core. As such, the professor is required to introduce the students to a computer-based math capability. In my class, that means Excel spreadsheets.

We will cover the following topics:

        Introduction to Excel
        Graphs and Slideshows
        Matrices
        Linear Equations
        Combinations and Permutations
        Probability
        Mathematics of Loans (Car, Home)
        Mathematics of Retirement Saving
        Data Fitting - Interpolation and Errors
        Encryption

The book is Finite Mathematics and Its Applications, Eleventh Edition, by Goldstein, Schneider and Siegel, Pearson 2014. The lectures are done my way (not from the book). The book serves as a useful source of practice problems and as a back-up resource. The idea is that you have two chances to learn the material: from lecture and from book.

We will also use a quasi-book: Data Fitting Notes. I will make this quasi-book available on Blackboard.

Procedures

If at all possible, but it is not required, bring your pc to class. That way you can be hands-on with Excel during class, which is very conducive to gaining expertise.

The class will consist mostly of a series of lectures.

Grading will be divided as follows:

Progress tests (5)	75
Final exam	25

Calendar

Date	Topic
28-Aug-18	Introduction to Excel
30-Aug-18	Introduction to Excel
4-Sep-18	Graphs and Slideshows
6-Sep-18	Graphs and Slideshows
11-Sep-18	Review
13-Sep-18	Progress Test 1
18-Sep-18	Matrices
20-Sep-18	Matrices
25-Sep-18	Linear Equations
27-Sep-18	Linear Equations
2-Oct-18	Review
4-Oct-18	Progress Test 2
9-Oct-18	Fall Break
11-Oct-18	Combinations and Permutations
16-Oct-18	Probability
18-Oct-18	Probability
23-Oct-18	Review
25-Oct-18	Progress Test 3
30-Oct-18	Mathematics of Loans (Car, Home)
1-Nov-18	Mathematics of Loans (Car, Home)
6-Nov-18	Mathematics of Retirement Saving
8-Nov-18	Mathematics of Retirement Saving
13-Nov-18	Review
15-Nov-18	Progress Test 4
20-Nov-18	Data Fitting - Interpolation and Errors
22-Nov-18	Thanksgiving Break
27-Nov-18	Data Fitting / Encryption
29-Nov-18	Data Fitting / Encryption
4-Dec-18	Review

6-Dec-18   Progress Test 5
11-Dec-18   Reading
13-Dec-18   Final Exam