

**George Mason University**  
**Math 110-001**  
**Course Syllabus**

Term            Fall 2017  
Title            Probability  
Course          Math 110-001  
Location        Exploratory Hall room L111  
Time            Tue and Thu 10:30 - 11:45  
Professor:      Douglas Eckley  
                  [deckley2@gmu.edu](mailto:deckley2@gmu.edu)  
                  mobile #        571 277 7927 (use sparingly)  
                  office #        703 993 1682  
                  office hours    Tue and Thu 1pm - 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
- Linear Equations
- Matrices
- Probability
- Difference Equations
- Data Fitting - Polynomial Interpolation, Least Squares

The book is Finite Mathematics and Its Applications, Eleventh Edition, by Goldstein, Schneider and Siegel, Pearson 2014

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; very conducive to learning mathematics.

The class will consist mostly of a series of lectures.

Grading will be divided as follows:

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

### **Homework and Quizzes**

You must do the homework problems in Excel.

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 a folder for this class, ie Math 110

Please upload your work into that folder

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

### **Calendar**

| <u>Date</u> | <u>Topic</u>       |
|-------------|--------------------|
| 29-Aug      | Excel Spreadsheets |
| 31-Aug      | Chapter 1          |
| 05-Sep      | Chapter 2          |
| 07-Sep      | Practice Problems  |
| 12-Sep      | Chapter 5          |
| 14-Sep      | Practice Problems  |
| 19-Sep      | Chapter 6          |
| 21-Sep      | Practice Problems  |
| 26-Sep      | Review             |
| 28-Sep      | Test #1            |
| 03-Oct      | Chapter 10         |
| 05-Oct      | Practice Problems  |
| 10-Oct      | No Class           |
| 12-Oct      | Spring Break       |
| 17-Oct      | Chapter 11         |
| 19-Oct      | Practice Problems  |
| 24-Oct      | Review             |
| 26-Oct      | Test #2            |
| 31-Oct      | Chapter 12         |
| 02-Nov      | Practice Problems  |

|        |                     |
|--------|---------------------|
| 07-Nov | Data Fitting part 1 |
| 09-Nov | Practice Problems   |
| 14-Nov | Data Fitting part 2 |
| 16-Nov | Practice Problems   |
| 21-Nov | No Class            |
| 23-Nov | No Class            |
| 28-Nov | Simulation          |
| 30-Nov | Practice Problems   |
| 05-Dec | Review              |
| 07-Dec | Test #3             |
| 12-Dec | Review              |
| 14-Dec | Final               |