

George Mason University
Math 555
Course Syllabus

Date Fall 2017
Title Mathematics of Life Contingencies
Course Math 555
Location Robinson Hall Room A101
Time Wed 7:20pm - 10pm

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

Description

This course helps the student prepare for the Mathematics of Life Contingencies ("MLC") exam in the Society of Actuaries sequence.

The book is Actuarial Mathematics for Life Contingent Risks by Dickson, Hardy, and Waters.

Procedures

The class will consist mostly of a series of lectures.

Grading will be divided as follows:

| | |
|------------|----|
| Quizzes | 30 |
| Homework | 30 |
| Final exam | 40 |

We will have a quiz at the end of each class, usually consisting of one computationally-based question. By the end, 10 quizzes will count, worth 3 points each, for a total of 30.

The homework will consist of one problem from each chapter, to be done in Excel. The particular problem and due date will be determined as we proceed. Each will be worth 5 points for a total of 30.

On September 13th we will have a visitation from Aetna Inc. Aetna is a huge employer of actuaries, both locally and nationwide. You MUST attend and you SHOULD bring a resume.

Calendar

| <u>Date</u> | <u>Topic</u> | <u>Book</u> |
|-------------|---------------------------|-------------|
| 30-Aug | Survival Models | Ch 2 |
| 06-Sep | Review, Preview | |
| 13-Sep | Visitation from Aetna | |
| 20-Sep | Life Tables and Selection | Ch 3 |
| 27-Sep | Review, Preview | |
| 04-Oct | Insurance Benefits | Ch 4 |
| 11-Oct | Annuities | Ch 5 |
| 18-Oct | Review, Preview | |
| 25-Oct | Premium Calculation | Ch 6 |
| 01-Nov | Review, Preview | |
| 08-Nov | Policy Value - I | Ch 7 |
| 15-Nov | Policy Values - II | Ch 7 |
| 22-Nov | No class | |
| 29-Nov | Review | |
| 06-Dec | Review | |
| 13-Dec | Final Exam | |