

George Mason University
Math 554-B02 / 554-B01
Course Syllabus

Date Summer 2023
Title Financial Mathematics
Course Math 554-B02 / 554-B01
Location Online but with live lectures at class time
Time Tue/Thu 7:20PM
Professor: Douglas Eckley
deckley2@gmu.edu
Office Hours: by appointment
Cell phone 571 277 7927 (use sparingly)

Description

This course helps the student prepare for the Financial Mathematics exam (exam "FM") in the Society of Actuaries / Casualty Actuarial Society sequence.

Our book is Mathematics of Investment and Credit (6th or later edition), 2015, by Broverman, S.A., ACTEX Publications, ISBN 978-1-625424853

The book store reports that they have run out of our book, and more will not be available until after the summer term has ended. Our back-up plan is to work with a previous edition that I can supply in pdf.

This course has two sections, one online (554-B02) and the other in-class (554-B01). Thus far (two weeks before our start date) students prefer, unanimously, the online section. Therefore we will meet online under Blackboard, Tools, Class Collaborate Ultra. Lectures will be “live” and synchronized, ie you should be present online at 7:20pm every class day.

Procedures

The class will consist mostly of a series of lectures and demonstrations by the prof.

Grading will be on a 100-point scale (90/80/70/60 or a more liberal curve) divided as follows:

Unit Tests	3 x 22 = 66
Final exam	34
Total	100

Calendar

<u>Date</u>	<u>Reference to Book</u>
30-May	Ch 1: interest rates
01-Jun	Ch 2: annuities
06-Jun	Ch 3: loans
08-Jun	Review
13-Jun	Unit 1 Exam
15-Jun	Ch 4: bonds
20-Jun	Ch 5: return on investment
22-Jun	Ch 6: term structure
27-Jun	Review
29-Jun	Unit 2 Exam
04-Jul	Holiday
06-Jul	Ch 7: cash flow analysis
11-Jul	Chapter 8 Sec 8.1 only and Chapter 9 Sec 9.1 only: advanced topics
13-Jul	Review
18-Jul	Unit 3 Exam
20-Jul	Course Review
25-Jul	Final exam