

# **Math 0470 Actuarial Mathematics 1**

**Fall 2016 University of Pittsburgh**

Dr. Song Yao, songyao@pitt.edu

**Lectures:** Tuesday, Thursday 4:00-5:15 pm in 106 Alexander Allen Hall.

**Office Hours:** Wednesday, Friday 1:30-3:00 pm in 404 Thackeray Hall or by appointment.

## **Description**

This course covers basic concepts of mathematical modeling in modern Finance. It will help you prepare for Exam FM conducted by the Society of Actuaries (<http://www.soa.org>) and the Casualty Actuarial Society (<http://www.casact.org>).

*For the official Exam FM syllabus and registration information, visit the Be An Actuary website at <http://www.beanactuary.org/exams/preliminary/?fa=financial-math-exam>*

## **Prerequisites**

Math0230 (Calculus 2)

## **Text**

“Study Manual For Exam FM/Exam 2”, 11<sup>th</sup> Edition, Harold Cherry and Rick Gorvett

## **Supplementary Text**

1. S. Broverman Study Guide for SOA Exam FM, 2014 Edition, Samuel Broverman, ASA, PHD
2. “Derivatives Markets (2nd ed.)” by R. McDonald (AddisonWesley. ISBN: 032128030X).

## **Grades**

Homework and Quizzes 30%; Midterm Exam 30%; Final Exam 40%.

## **Homework and Quizzes**

1. We have weekly homework which will be due on the recitation class next Monday.
2. We will also have a weekly quiz on each recitation class. The quiz will have two questions, one is exactly from the latest homework and the other one will be similar to one of the homework questions just assigned. No makeup quiz will be given. However, I will drop the lowest two quiz scores when calculating your final grade in case of your illness or emergency. If you can not attend the exams for sound reasons (like conflict of exam schedule or serious sickness), you have to notify me as soon as possible to schedule a makeup.
3. I will post announcements, homework assignments, answer keys, and other resources on the Courseweb.

## **Disability Resource Services**

If you have a disability for which you are or may be requesting an accommodation, you are encouraged to contact your instructor and Disability Resources and Services, 140 William Pitt Union, 412-648-7890 as early as possible in the term. DRS will verify your disability and determine reasonable accommodations for this course.