

Fall 2016

University of Akron
3470: 471/571 Actuarial Science I

Time and Place: MWF 4:25 - 5:15pm CAS 135
Instructor: Nao Mimoto
Office: CAS 413
Phone: (330) 972 8011
Email: nmimoto@uakron.edu
Office Hours: MW 2-3 & by appointment
Prerequisite: 3470:451 or 461 or equivalent

Course Description: Introduction to Interest Theory and Financial Economics. Study of various statistical, financial, and mathematical calculations used to determine insurance premiums. Topics covered include, Time value of Money, Annuities, Loans, Bonds, Immunization, Valuation of Derivatives, Hedging and Investment Strategies, and Delta-Hedging.

This course will cover all the materials needed for SOA Exam FM/CAS Exam 2, and some materials for SOA Exam MFE/CAS Exam 3F.

Textbooks: (recommended)

Samuel A. Broverman, Mathematics of Investment and Credit 5th Ed., ACTEX
Robert L. McDonald, Derivative Markets 2nd Ed., Addison Wesley

Attendance: You are expected to attend all meetings of the class. If you miss a class for whatever reason, you are responsible for all covering materials, assignments and deadlines.

Assignments: There will be weekly assignment. Each assignment contains practice questions from Exam FM/2 or MFE/3.

Calculator: TI-BAII plus financial calculator is required for this course.

Grading Scale: Grading is based on homework and exam scores according to the following schemes, and a course grade will be given according to the following scale:

Assignments	40%
Midterm 1	20%
Midterm 2	20%
Final	20%

A		B		C		D	
90%		80%		70%		60%	

A plus/minus grade may be assigned if a student's total fall just below one of the cut-offs.

ADA: Any student who feels he/she may need an accommodation based on the impact of a disability should contact the Office of Accessibility at (330) 972-7928. The office is located in Simmons Hall room 105. Their web page can be viewed at <http://www.uakron.edu/access/>.

Disclaimer: The instructor reserves the right to make any changes he considers academically advisable. Changes will be announced in class and on the course web site. It is your responsibility to keep up with any changed policies and assignments.

Academic Honesty: The use of a crib sheet as well as copying homework, quizzes, or examinations constitutes academic dishonesty and will be referred to the Student Discipline Office. Please refer to the University of Akron's Academic Dishonesty Policies Publication for a more detailed discussion about Academic Dishonesty.

Table 1: **Important Dates**

Sep 6	Last day to add (no signatures required)
Sep 12	Last day to add (with Instructor, Advisor, and Dean signatures)
Sep 12	Last day to drop without "WD" appearing on academic record (no signatures required)
Oct 17	Last day to drop