

Interest Theory
MA 370, Section 1, Winter 2016
MWF 10:00 – 10:50 WS 2901

Professor: Dr. Linda Lawton

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Office Hours: 1:00 – 2:30 MRF, or by appointment

Text: McDonald, R.I. Derivatives Markets (second edition) - optional
Cherry, H. & Gorvett, R. ASM Study Manual Exam FM (2009 edition)

Course Description: We will cover all of the topics on the most recent syllabus published for SOA Exam FM / CAS Exam 2.

Learning Outcomes:

- The student will use actuarial methods and notation to solve equations of values involving annuities, bonds, and amortization schedules.
- The student will use integration and differentiation techniques to calculate force of interest, convexity, and volatility.
- The student will compare and value derivative structures including, but not limited to, forwards, futures, swaps, short sales of stock, puts, calls, and collars.

Prerequisite: Calculus II or consent of Instructor

Course Requirements: Weekly / daily homework assignments or quizzes (10%), four in-class exams (15% each), and a comprehensive final exam (30%)
Exam dates and times can be rescheduled only with prior notice and approval except in the case of emergencies where I am notified by the university.

Grade scale: 91 – 100% = A, 81 – 89% = B, 71 – 79% = C, 61 – 69% = D, < 60% = F

Disability Services

If you have a need for disability-related accommodations or services, please inform the Coordinator of Disability Services in the Dean of Students Office at 2001 C. B. Hedgcock Building (227-1700). Reasonable and effective accommodations and services will be provided to students if requests are made in a timely manner, with appropriate documentation, in accordance with federal, state, and University guidelines.

This syllabus is subject to change with notice.