ACT230H1 F

Mathematics of Finance for Non-Actuaries

Summer 2024 Syllabus

Course Meetings

ACT230H1 F

Section	Day & Time	Delivery Mode & Location
LEC0101	Monday, 1:00 PM - 3:00 PM Wednesday, 1:00 PM - 3:00 PM	Online Synchronous Online Synchronous

Refer to ACORN for the most up-to-date information about the location of the course meetings.

Course Contacts

Instructor: Andrei Badescu
Email: andrei.badescu@utoronto.ca
Phone: 4163998762
Office Hours and Location: Online, see quercus for details

Course Overview

Introduction to financial mathematics, interest measurement, present value calculation, annuity valuation, loan amortization, consumer financing arrangements, bond valuation. The course is aimed at a general audience who will not be continuing in the actuarial science program. Course manuals fee: $30.

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Course Learning Outcomes

Prerequisites: First-year Calculus
Corequisites: None
Exclusions: ACT240H1
Recommended Preparation: None
Credit Value: 0.5

Course Materials

Texts:

Required

ACT230 Revised book 2019, Samuel A Broverman. The textbook may be found also in a printed form at the U of T bookstore.

Additional

- Mathematics of Investment and Credit, 6th. Ed., Samuel A Broverman, ACTEX Publications, 2016
- Kellison, S.G., The Theory of Interest (Third Edition), 2009, Irwin/McGraw-Hill

Course Objective:

The purpose of the course is to prepare students to do financial valuations and to create the necessary background that is useful for future university courses. You are expected to read and understand the descriptive portions of the text yourself. Questions and discussions are encouraged during the online tutorials and office hours.

Approximate Coverage:

- Interest Rate Measurement – Sections 1-3
- Valuation of Annuities – Sections 4 - 8
- Loan Repayment – Section 9
- Bond Valuation – Sections 10-11

Marking Scheme

Assessment	Percent	Details	Due Date
Test 1	40%	Online, open book, on Quiz Quercus	2024-05-29

Assessment	Percent	Details	Due Date
In-Person Final Exam	60%		Final Exam Period

Late Assessment Submissions Policy

If the student misses the test there is an oral exam within a week