DALHOUSIE UNIVERSITY

Faculty of Science Course Syllabus (Section A)
Department of Mathematics and Statistics
Theory of Interest – MATH 2600 / STAT 2600
Fall 2019

Instructor:	Dr. Gábor Lukács	*lukacs@dal.ca*	201 Chase Building
Lectures:	Monday & Wednesday 11:05 - 12:25		206 Life Sciences Centre
Office hours:	Monday 16:30 - 17:30		
	Wednesday 14:00 - 15:00		
	by appointment		

Course Description

Simple and compound interest are covered in detail. Topics include: nominal and effective rates of interest/discount, force of interest, annuities, perpetuities, and bonds.

Course Prerequisites

MATH 1010.03 or MATH 1115.03 or MATH 1215.03

Course Objectives/Learning Outcomes

Providing foundations for the Interest Theory part of the Financial Mathematics exam of the Society of Actuaries.

Course Materials

Textbook: "Mathematics of Investment and Credit" by Samuel A. Broverman, 7th edition, ISBN: 978-1-63588-222-3 (digital) or 978-1-63588-221-6 (print).

A special discount is available for students in this course. See page 5 for details.

Website: On Brightspace.

Course Assessment

Component	Weight (% of final grade)		Date
Midterm exam	$\begin{cases} 30\% & \text{if midterm} > \text{final} \\ 10\% & \text{if midterm} \leq \text{final} \end{cases}$		Oct. 23, 2019 at 17:30
Final exam	$\begin{cases} 70\% & \text{if midterm} > \text{final} \\ 90\% & \text{if midterm} \leq \text{final} \end{cases}$		(Scheduled by Registrar)

Other course requirements

You are expected to read through the relevant sections of the textbook *before* each lecture. The sections of the textbook that will be covered in each lecture will be announced on the website.

Conversion of numerical grades to Final Letter Grades follows the <u>Dalhousie Common Grade Scale</u>

A+	(90-100)	B+	(77-79)	C+	(65-69)	D	(50-54)
A	(85-89)	B	(73-76)	C	(60-64)	F	(<50)
A-	(80-84)	B-	(70-72)	C-	(55-59)		

Course Policies

Collaboration: Collaboration is strictly prohibited. Treat your assignment and exam solutions as sensitive, confidential documents—**do not** share them with others. If you are unable to attend the lecture and someone else hands in your assignment for you, put your assignment in a **sealed, signed envelope**.

Assignments: Submitting assignments are your main opportunity to improve your skills and get feedback about your performance before the exams. Assignments submitted by the deadline will be marked to provide you with feedback. Assignment marks **do not** count toward your grade in the course.

If you are unable to submit your assignment on time due to illness or other exceptional circumstances, please contact the instructor right away to discuss alternate arrangements.

Missed midterm: Dalhousie students are asked to take responsibility for their own short-term absences (3 days or less) by contacting their instructor by phone or email **prior** to the academic requirement deadline or scheduled time and by submitting a completed Student Declaration of Absence to their instructor in case of missed or late academic requirements. Only 2 separate Student Declaration of Absence forms may be submitted per course during a term. Alternate arrangements will be made on a case-by-case basis at the instructor's discretion.

Missed final: You are expected to contact the instructor as soon as you realize that you are unable to make it to the final exam. A medical certificate or other documentation may be required. Alternate arrangements will be made on a case-by-case basis in accordance with Dalhousie's applicable policies.

Course Content

We will cover most of the material in Chapters 1-5 in the textbook. If time permits, we will also cover select topics from Chapter 6.

Faculty of Science Course Syllabus (Section B)
Theory of Interest – MATH 2600 / STAT 2600

University Policies and Statements

This course is governed by the academic rules and regulations set forth in the University Calendar and by Senate

Academic Integrity
At Dalhousie University, we are guided in all of our work by the values of academic integrity: honesty, trust, fairness, responsibility and respect (The Center for Academic Integrity, Duke University, 1999). As a student, you are required to demonstrate these values in all of the work you do. The University provides policies and procedures that every member of the university community is required to follow to ensure academic integrity.
Information: https://www.dal.ca/dept/university_secretariat/academic-integrity.html

Accessibility
The Advising and Access Services Centre is Dalhousie's centre of expertise for student accessibility and accommodation. The advising team works with students who request accommodation as a result of a disability, religious obligation, or any barrier related to any other characteristic protected under Human Rights legislation (Canada and Nova Scotia).
Information: https://www.dal.ca/campus_life/academic-support/accessibility.html

Student Code of Conduct
Everyone at Dalhousie is expected to treat others with dignity and respect. The Code of Student Conduct allows Dalhousie to take disciplinary action if students don't follow this community expectation. When appropriate, violations of the code can be resolved in a reasonable and informal manner—perhaps through a restorative justice process. If an informal resolution can't be reached, or would be inappropriate, procedures exist for formal dispute resolution.
Code: https://www.dal.ca/dept/university_secretariat/policies/student-life/code-of-student-conduct.html

Diversity and Inclusion - Culture of Respect
Every person at Dalhousie has a right to be respected and safe. We believe inclusiveness is fundamental to education. We stand for equality. Dalhousie is strengthened in our diversity. We are a respectful and inclusive community. We are committed to being a place where everyone feels welcome and supported, which is why our Strategic Direction prioritizes fostering a culture of diversity and inclusiveness.
Statement: http://www.dal.ca/cultureofrespect.html

Recognition of Mi'kmaq Territory
Dalhousie University would like to acknowledge that the University is on Traditional Mi'kmaq Territory. The Elders in Residence program provides students with access to First Nations elders for guidance, counsel and support. Visit or e-mail the Indigenous Student Centre (1321 Edward St) (elders@dal.ca).
Information: https://www.dal.ca/campus_life/communities/native.html

Important Dates in the Academic Year (including add/drop dates)
https://www.dal.ca/academics/important_dates.html

University Grading Practices
https://www.dal.ca/dept/university_secretariat/policies/academic/grading-practices-policy.html

Missed or Late Academic Requirements due to Student Absence (policy)
https://www.dal.ca/dept/university_secretariat/policies/academic/missed-or-late-academic-requirements-due-to-student-absence.html

Student Resources and Support

Advising

General Advising https://www.dal.ca/campus_life/academic-support/advising.html

Science Program Advisors: https://www.dal.ca/faculty/science/current-students/academic-advising.html

Indigenous Student Centre: https://www.dal.ca/campus_life/communities/indigenous.html

Black Students Advising Centre: https://www.dal.ca/campus_life/communities/black-student-advising.html

International Centre: https://www.dal.ca/campus_life/international-centre/current-students.html

Academic supports

Library: https://libraries.dal.ca/

Writing Centre: https://www.dal.ca/campus_life/academic-support/writing-and-study-skills.html

Studying for Success: https://www.dal.ca/campus_life/academic-support/study-skills-and-tutoring.html

Copyright Office: https://libraries.dal.ca/services/copyright-office.html

Fair Dealing Guidelines https://libraries.dal.ca/services/copyright-office/fair-dealing.html

Other supports and services

Student Health & Wellness Centre: https://www.dal.ca/campus_life/health-and-wellness/services-support/student-health-and-wellness.html

Student Advocacy: https://dsu.ca/dsas

Ombudsperson: https://www.dal.ca/campus_life/safety-respect/student-rights-and-responsibilities/where-to-get-help/ombudsperson.html

Safety

Biosafety: https://www.dal.ca/dept/safety/programs-services/biosafety.html

Chemical Safety: https://www.dal.ca/dept/safety/programs-services/chemical-safety.html

Radiation Safety: https://www.dal.ca/dept/safety/programs-services/radiation-safety.html

Scent-Free Program: https://www.dal.ca/dept/safety/programs-services/occupational-safety/scent-free.html

DALHOUSIE UNIVERSITY

Department of Mathematics and Statistics
Theory of Interest – MATH 2600 / STAT 2600
Fall 2019

Instructions for Textbook Discount
The offer expires on October 3, 2019

ACTEX Learning, the publisher of the textbook, has kindly agreed to offer a 20% discount to students taking this course on both the textbook and the solutions manual. In addition, students who purchase the textbook will receive a free 9-month subscription to GOAL for FM.

To use the discount and the free subscription, please follow these steps **before** October 3, 2019:

1. Go to https://www.actexmadriver.com/account.aspx.

2. Create a new account on using your Dalhousie email address (username@dal.ca).

3. Log on using your Dalhousie email address.

4. Add the textbook and the solution manual to your shopping cart

   (a) Textbook: https://www.actexmadriver.com/product.aspx?id=453141312

   (b) Solutions manual: https://www.actexmadriver.com/product.aspx?id=453141313

   You will be able to choose between buying a digital copy or a printed copy (or both).

5. Enter coupon code DAL20516C67D8 in checkout. (You will see a box to enter the code after clicking on the green **Continue** button above Shipping Method. Even digital products have a 'shipping method.')

6. After applying the coupon, your total costs will be as follows: US$89.60 plus tax for a digital copy of the textbook and US$27.20 plus tax for a digital copy of the solutions manual; and US$97.60 plus shipping and tax for a printed copy of the textbook and US$31.20 plus shipping and tax for a printed copy of the solutions manual.

7. If you used your Dalhousie email address for the the billing and/or shipping at checkout, you should also be receiving an access key for GOAL for FM within a few days.

8. If you do not receive the access key for GOAL for FM after 7 days, please contact Alysia Lurvey (alysia@actexmadriver.com) with your Order ID number.

Important: The discount coupon expires on October 3, 2019.