

Department of Economics Faculty of Arts

Economics 311 (LO2) Computer Applications in Economics

Instructor: Taylor MacPherson Lecture Location: Delivered over ZOOM Phone: (587)-966-8996 Lecture Days/Time: TuTh 5:00-6:15pm

Email: Taylor.MacPherson@ucalgary.ca

Office: SS 338 (also will be on Zoom)

Office Hours: MW 400-5:00pm (or by appointment) Winter 2024

Course Description:

The main goal of this blended learning course is to provide proficiency in practical applications of economics using computers. Students learn about the elementary and advanced features of spreadsheets using Excel and using economic databases to find economic data. Examples will be drawn from Engineering Economics and Financial Economics.

Course Learning Outcomes:

By the end of the course students are supposed to be

- Literate in Excel (comprehend terminology, apply appropriate techniques) for various types of data summaries and analysis;
- Able to obtain data from various sources and import it into Excel. This includes selecting and using the appropriate format for graphing different types of data;
- Able to explain the time value of money, the underlying concepts, and to assess loans, mortgages, bonds, term deposits and other business projects using multiple methods in Excel;
- Able to defend his/her choice of the most profitable alternative, and to perform a sensitivity analysis using advanced Excel techniques;
- Able to use advanced Excel database tools to compile, summarize, and organize data including PivotTables

Course Outline:

Introduction and Lecture 1	
Jan 9 – 11, 2024	Introduction to Spreadsheets with Graphs and Charts Graphing and Summarizing Data Using Excel.
Lecture 2	
Jan 16 – 23, 2024	 Managing Data Organizing Data Sets Data Analysis and Functions Charts

Lecture 3	
Jan 25 – Feb 13, 2024	Basic Concepts of Financial Economics, Financial Tools and Functions Interest Rates Mortgage Loans Present Worth Analysis
Feb 29, 2024	Midterm Test
Lectures 4 & 5	<u> </u>
Feb 15 – March 5, 2024	Project Evaluation
Lectures 6 – 9	
March 7 – April 2, 2024	Database Management Applications
If Time Allows – Lecture 10	•
April 4 – 9, 2024	Visual Basic for Applications • Basics of programming in Excel • Review

Prerequisites/Corequisites:

Economics 201

Required Textbook(s):

None

Recommended Textbook(s):

Carey, P. (2020). New Perspectives Microsoft® Office 365 & Excel 2019: Comprehensive. Nelson Publisher.

Required Access to Technology: Internet access with the capability of rendering Zoom, PDF files and Yuja video files and Excel (preferably a recent version).

Online Delivery:

This course will be delivered online. Students are expected to be able to participate online in accordance with this Course Outline. Lectures, assignments, office hours, exams, readings, and other course material, etc. all require online access, and this access is the responsibility of the student.

In order to remotely participate in online courses, students will need to have: computer with a current and updated operating system (macOS or Windows will work with all university-supported online learning technologies), a current and updated web browser installed – the latest versions of Firefox,

Safari, Chrome or Edge will help to avoid compatibility issues, secure and reliable internet, microphone/headphones, webcam (optional), scanner (or camera to scan your work).

Lectures:

Lectures will be delivered online at the Registrar scheduled times and delivered using ZOOM. The lectures will be recorded and subsequently posted to D2L.

Desire2Learn:

This course will make use of the Desire2Learn (D2L) platform. Students who are registered in the course can log on at http://d2l.ucalgary.ca through their student centre. Please note that D2L features a class email list that may be used to distribute course-related information. These e-mails go to your University of Calgary e-mail addresses only.

Grade Determination:

Midterm Exam	20%
Assignments (3)	30%
Term Project	15%
Final Exam	35%
	100%

Examination Details:

The midterm will be work completed in Excel though questions will be accessed online in D2L. The exam is designed and intended to be completed in 75 minutes. The exam will be OPEN book. The common assessment time will be during class on February 29th. For students who cannot write during the common assessment time the exam will be available the evening of the previous lecture before the exam date, being February 27th at 17:00. Students who cannot write the midterm exam during class time must send an email to the instructor indicating that they will write at the alternative time at least 24 hours before the alternative midterm time. If students experience difficulties within the common assessment time, the student must contact the instructor by email immediately to arrange an appropriate resolution. This resolution may involve additional time for completion of the exam or an alternative time to complete the exam.

The final examination will be comprehensive and scheduled by the Registrar. The exam is designed and intended to be completed in two hours. The exam will be OPEN book. The final exam will be a work completed in Excel though questions will be accessed online in D2L. Students will have three hours to complete the exam. The common final exam time begins three hours before the end time of the Registrar's scheduled final exam for this course. If the exam time scheduled by the Registrar ends at 14:00, the online exam will begin at 11:00. For students who cannot sit the exam during the common exam window one alternate exam time will be scheduled during the 24-hours before the end of the Registrar's scheduled final exam for this course and will be communicated by instructor during the last week of the classes. Students who cannot write the final exam at the time scheduled by the Registrar's Office are required to notify the instructor that they will write at the alternative time by email to the instructor 48 hours before the end of the Registrar's scheduled final exam window. Students unable to write the final exam at either time must request a deferred exam. If students experience difficulties within the common assessment time, the student must contact the instructor by email immediately to

arrange an appropriate resolution. This resolution may involve additional time for completion of the exam or an alternative time to complete the exam.

Grading Policies:

The official grading system will be used. See http://www.ucalgary.ca/pubs/calendar/current/f-1-1.html.

Students must receive a passing grade on the final exam to pass the course. Students committing academic misconduct during the final exam will not receive a passing grade for the course.

If a student's letter grade on the final exam exceeds their midterm(s) letter grade, the weight of the midterm(s) is (are) transferred to the final exam. The student must have written the midterm(s) or provided supporting documentation for the absence(s).

As per the Writing Across the Curriculum Statement in the Calendar, writing and grading thereof will be a factor in the evaluation of student work. See https://www.ucalgary.ca/pubs/calendar/current/e-2.html.

THERE WILL BE NO MAKEUP OR DEFERRED QUIZZES/TESTS/EXAMS under any circumstances, nor may the quizzes/tests/exams be written early. Students unable to write the quizzes/tests/exams because of documented illness, family emergency, religious observance, or university-sanctioned event will have the weight shifted to the final examination; otherwise a grade of zero will be assigned.

If a student cannot write their final exam on the date assigned by the Registrar's Office, they need to apply for a deferred exam https://www.ucalgary.ca/pubs/calendar/current/g-3-4.html. Under no circumstance will this be accommodated by the Department.

Any student work which remains undistributed after the last day of classes will be available to students through the instructor's office during the instructor's office hours.

Reappraisal of Grades:

For Reappraisal of Graded Term Work, see Calendar I.2 http://www.ucalgary.ca/pubs/calendar/current/i-2.html

For Reappraisal of Final Grade, see Calendar I.3 http://www.ucalgary.ca/pubs/calendar/current/i-3.html

Academic Misconduct and Intellectual Honesty:

Academic Misconduct refers to student behavior that compromises proper assessment of students' academic activities and includes: cheating; fabrication; falsification; plagiarism; unauthorized assistance; failure to comply with an instructor's expectations regarding conduct required of students completing academic assessments in their courses; and failure to comply with exam regulations applied by the Registrar.

Statement of Intellectual Honesty, see Calendar K.3 https://www.ucalgary.ca/pubs/calendar/current/k-3.html

Plagiarism and Other Academic Misconduct https://ucalgary.ca/student-services/student-success/learning/academic-integrity

Academic Accommodations:

Students seeking an accommodation based on disability or medical concerns should contact Student Accessibility Services. SAS will process the request and issue letters of accommodation to instructors. Students who require an accommodation in relation to their coursework based on a protected ground other than disability should communicate this need in writing to their instructor. The full policy on Student Accommodations is available at

https://www.ucalgary.ca/legalservices/sites/default/files/teams/1/Policies-Accommodation-for-Students-with-Disabilities-Procedure.pdf and https://www.ucalgary.ca/legalservices/sites/default/files/teams/1/Policies-Student-Accommodation-Policy.pdf.

Freedom of Information and Protection of Privacy (FOIP) Act:

Personal information is collected in accordance with FOIP. Assignments can only be returned to the student and will be accessible only to authorized faculty and staff. For more information, see https://www.ucalgary.ca/legal-services/sites/default/files/teams/1/faq-privacy-students.pdf

Internet and Electronic Communication Device Information:

The use of cell phones for any purpose in class is prohibited. Computers and tablets may be used for note taking only unless otherwise authorizes by the instructor.

Copyright Legislation:

See the University of Calgary policy on Acceptable Use of Material Protected by Copyright at https://www.ucalgary.ca/legal-services/sites/default/files/teams/1/Policies-Acceptable-Use-of-Material-Protected-by-Copyright-Policy.pdf. Students who use material protected by copyright in violation of this policy may be disciplined under the Non-Academic Misconduct Policy.

Recording of Lectures:

Recording of lectures is prohibited, except for audio recordings authorized as an accommodation by SAS or an audio recording for individual private study and only with the written permission of the instructor. Any unauthorized electronic or mechanical recording of lectures, their transcription, copying, or distribution, constitutes academic misconduct. See https://www.ucalgary.ca/pubs/calendar/current/e-6.html.

Instructor Intellectual Property:

Course materials created by instructors (including presentations and posted notes, labs, case studies, assignments and exams) remain the intellectual property of the instructor. These materials may NOT be reproduced, redistributed or copied without the explicit consent of the instructor. The posting of course materials to third party websites such as note-sharing sites without permission is prohibited. Sharing of extracts of these course materials with other students enrolled in the course at the same time may be allowed under fair dealing.

Important Dates:

Please check: http://www.ucalgary.ca/pubs/calendar/current/academic-schedule.html.

Student Organizations:

Faculty of Arts Students' Association (F.A.S.A.):

Economics Department Representative

Office: SS 803, E-mail: econrep@fasaucalgary.ca and Web: www.fasaucalgary.ca.

Society of Undergraduates in Economics: https://www.ucalgarysue.com/.

Society of Undergraduates in Economics is a student run organization whose main purpose is to assist undergraduate economics students to succeed both academically and socially at the University of Calgary. Services include access to the exam bank, career events such as Industry Night and information sessions, mentorship programs, and social events for members. They invite you to join by contacting SUE at sue@ucalgarysue.com

Faculty of Arts Program Advising and Student Information Resources:

- Have a question, but not sure where to start? The Arts Students' Centre is your information
 resource for everything in Arts! Drop in at SS102, call them at 403-220-3580, or email them at
 artsads@ucalgary.ca. You can also visit the Faculty of Arts website at
 http://arts.ucalgary.ca/undergraduate, which has detailed information on common academic
 concerns, including program planning and advice.
- For registration (add/drop/swap), paying fees and assistance with your Student Centre, contact Enrolment Services at 403-210-ROCK [7625] or visit them in the MacKimmie Tower.

Student Support and Resources:

- See https://www.ucalgary.ca/registrar/registration/course-outlines for information on campus mental health resources, the Student Ombuds Office, Student Success Centre, Safewalk, and Emergency Evacuation and Assembly.
- Online writing resources are available at https://ucalgary.ca/student-services/student-success/writing-support.

Notes:

- 1. Students are responsible for all assigned material, e.g., supplementary material posted on D2L, regardless of whether or not the material was covered in class.
- 2. Course material dealing with a particular assignment will typically be covered in class at least 7 days before the assignment is due; thus, assignments can be completed at any time up to, and including, the due date. Given these factors, only situations where someone can document illness or domestic affliction for an extended period (i.e., the entire 7 days prior to the due date) would possibly warrant shifting the assignment weight to the final exam.
- 3. A detailed list of topics and readings will be provided on D2L. Recommended readings will be drawn from the textbook.

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