

# COURSE SYLLABUS



COURSE TITLE: BUS 231 – Quantitative Methods  
CLASS SECTION: D02  
TERM: 2025 Winter  
COURSE CREDITS: 3  
DELIVERY METHOD(S): Online Asynchronous

Camosun College campuses are located on the traditional territories of the Ləkʷəŋən and W̱SÁNEĆ peoples. We acknowledge their welcome and graciousness to the students who seek knowledge here.  
Learn more about Camosun's [Territorial Acknowledgement](#).

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## INSTRUCTOR DETAILS

NAME: Afshin Amiraslany

EMAIL: [amiraslanya@camosun.ca](mailto:amiraslanya@camosun.ca)

OFFICE: Interurban - CBA 272; Lansdowne – E 306

HOURS: by appointment (online or in person)

*As your course instructor, I endeavour to provide an inclusive learning environment. However, if you experience barriers to learning in this course, do not hesitate to discuss them with me. Camosun College is committed to identifying and removing institutional and social barriers that prevent access and impede success.*

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## CALENDAR DESCRIPTION

Students will apply several statistical techniques used for business decision-making. They will learn to solve business problems and make related predictions using simple and multiple regressions, exponential smoothing, non-parametric statistical procedures, analysis of variance, seasonal and enumerative data, linear programming, and inventory control models.

PREREQUISITE(S): One of: C in STAT 116, C in STAT 216, C in STAT 218, C in BUS 230

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## COURSE LEARNING OUTCOMES / OBJECTIVES

Upon successful completion of this course, students will be able to:

1. Utilize appropriate tools to support quantitative problem solving.
2. Apply the F-distribution and the concept of analysis of variance (ANOVA) to compare means of multiple populations and make inferences about the relative variances of two populations.
3. Develop simple and multiple linear regression models for analyzing cross-sectional data.
4. Apply the chi-squared distribution and non-parametric methods to hypothesis testing and the analysis of ranked data.
5. Use and explain concepts related to statistical quality control.
6. Construct and use indices to compare data.
7. Choose appropriate time series methods and use them to forecast in-sample and out-of-sample data.

## REQUIRED MATERIALS & RECOMMENDED PREPARATION / INFORMATION

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### Required Text:

Lind, D., Marchal, and Wathen. (2018), Elementary Statistics: Quantitative Methods Bus 230/231, Custom Publication for Camosun College. Canada: McGraw-Hill Education.

### Or:

Lind, D., Marchal, W., Wathen, S., Waite, C., & Murphy, K. (2022). Basic Statistics for Business & Economics (7th Canadian Edition). Canada: McGraw-Hill Education.

**Microsoft Office:** A free subscription of Office 365 is available to all current Camosun College students.

Sign up for Office 365 at: <https://camosun.ca/services/its/software-other-services>

**Calculator:** A Texas Instruments BA II+ or a standard non-programmable calculator.

## COURSE SCHEDULE, TOPICS, AND ASSOCIATED PREPARATION / ACTIVITY / EVALUATION

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The following schedule and course components are subject to change with reasonable advance notice, as deemed appropriate by the instructor.

WEEK	DATE RANGE	TOPIC
1	Jan 6 – Jan 10	Class welcome Introduction/Review Confidence Intervals
2	Jan 13 – Jan 17	Hypothesis testing
3	Jan 20 – Jan 24	Hypothesis testing
4	Jan 27 – Jan 31	ANOVA (Analysis of Variance)
5	Feb 3 – Feb 7	ANOVA (Analysis of Variance)
6	Feb 10 – Feb 14	Linear Regression and Correlation
7	Feb 17 – Feb 21	Reading Break
8	Feb 24 – Feb 28	Simple Regression
9	Mar 3 – Mar 7	Multiple Regression
10	Mar 10 – Mar 14	Time Series – seasonal adjustment
11	Mar 17 – Mar 21	Time Series – Forecasting
12	Mar 24 – Mar 28	Index Numbers

WEEK	DATE RANGE	TOPIC
13	Mar 31 – Apr 4	Chi-Square Applications
14	Apr 7 – Apr 11	Analysis of Ordinal Data
	<b>Apr 14 – Apr 25</b>	<b>Final Exam (TBA)</b>

Students registered with the Centre for Accessible Learning (CAL) who complete quizzes, tests, and exams with academic accommodations have booking procedures and deadlines with CAL where advanced notice is required. Deadlines can be reviewed on the [CAL exams page](http://camosun.ca/services/accessible-learning/exams.html). <http://camosun.ca/services/accessible-learning/exams.html>

## EVALUATION OF LEARNING

DESCRIPTION		WEIGHTING
	Assignment 1 (Due Week6)	30 %
	Assignment 2 (Due Week 11)	35 %
	Final Exam (TBA)	35%
		<b>TOTAL</b> 100%

If you have a concern about a grade you have received for an evaluation, please come and see me as soon as possible. Refer to the [Grade Review and Appeals](http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.14.pdf) policy for more information.  
<http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.14.pdf>

## COURSE GUIDELINES & EXPECTATIONS

This course is delivered using an asynchronous online model. This means that students will complete all the course material online. There is no scheduled class time.

Students are expected to set aside a regular time each day to work on this course.

Lessons/Materials/Videos will be posted/released on Mondays. You must submit your assignments by the due date as announced. A grade of zero will be assigned to late submissions. There are no additional assignments or make-up exams of any kind if you performed poorly on an assignment or final exam.

Each week you are expected to review items on D2L. Your success in this course requires continued effort throughout the term. Be certain to watch all the videos and complete the assignments as necessary.

You will write final exam during the final exam period. The final exam will be 2-hours duration and written in person remotely (online) via Zoom or D2L on the date and times which will be posted once it is available. More information regarding the exam format, coverage, allowed/required materials will be posted to D2L.

I remain available to assist you in navigating the course and its content. You can reach out to me anytime by email to arrange a virtual appointment.

### Assignments:

Assignments will be made available on **D2L – Assignment**. You should submit before the deadline on the same drop box.

### Final Exam:

Additional information regarding the final exam will be made available on D2L during the last week of instruction.

## SCHOOL OR DEPARTMENTAL INFORMATION

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**Assignment formatting.** The School of Business uses APA style for formatting assignments and citing references. Proper citations and formatting using APA style will be required. See Camosun College (2018) Library Citation Guides retrieved from: <http://camosun.ca.libguides.com/apa7>

- ☐ Where required by your instructor, submit all assignments into the D2L assignments by your last name.
- ☐ In text citations for quotes, paraphrasing, and references must be consistent with APA standards.
- ☐ Grammar, spelling, style and APA formatting, citations and referencing will be assessed in your mark.
- ☐ All submitted work must be properly referenced to sources where required by your instructor.
- ☐ Unless otherwise specified, you are to submit your own work, any work collaborated (unless permitted by the course) will be considered in violation of the college's Student Conduct Policy. See Camosun College (2003) Student Conduct Policy from: <http://camosun.ca/about/policies/education-academic/e-2-student-services-and-support/e-2.5.pdf>.

**Deadlines and exams.** You must submit your assignments on the due date or as announced. A grade of zero will be assigned to late submissions. There are no additional assignments or make-up exams of any kind if you performed poorly on an assignment, midterm or final exam.

- a) **EXAM DATES WILL NOT BE RESCHEDULED.** Non-attendance on scheduled exam dates results in a zero grade. Exceptions will be made only for medical reasons or extenuating circumstances that must be submitted and then accepted by the instructor. Please advise your instructor promptly.
- b) Students registered through the [Centre for Accessible Learning \(CAL\)](#) should discuss timelines with their instructors at the beginning of each semester.
- c) Medical notes must be dated, signed, and be written on letterhead or prescription paper imprinted with the physician's name and address. Notes are accepted from Physician (GP or medical specialist), Nurse

Practitioner, Psychiatrist, Psychologist, Counsellor and Aboriginal Elder. Electronic notes will not be accepted. Medical documentation must be received as soon as reasonably possible.

## SCHOOL OR DEPARTMENTAL INFORMATION

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This course is offered through the School of Business and is intended for students in the Associate Arts (ECON) or University Transfer (BUS) programs. Both programs offer significant flexibility in course selection. If you are considering a transfer to university, please reach out to your academic advisor, or our **Program Leader Keith Yacucha** [yacuchak@camosun.ca](mailto:yacuchak@camosun.ca) for information about our programs and how to make effective course choices that will support your future.

## STUDENT RESPONSIBILITY

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Enrolment at Camosun assumes that the student will become a responsible member of the College community. As such, each student will display a positive work ethic, assist in the preservation of College property, and assume responsibility for their education by researching academic requirements and policies; demonstrating courtesy and respect toward others; and respecting expectations concerning attendance, assignments, deadlines, and appointments.

## SUPPORTS AND SERVICES FOR STUDENTS

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Camosun College offers a number of services to help you succeed in and out of the classroom. For a detailed overview of the supports and services visit <http://camosun.ca/students/>.

Support Service	Website
Academic Advising	<a href="http://camosun.ca/advising">http://camosun.ca/advising</a>
Accessible Learning	<a href="http://camosun.ca/accessible-learning">http://camosun.ca/accessible-learning</a>
Counselling	<a href="http://camosun.ca/counselling">http://camosun.ca/counselling</a>
Career Services	<a href="http://camosun.ca/coop">http://camosun.ca/coop</a>
Financial Aid and Awards	<a href="http://camosun.ca/financialaid">http://camosun.ca/financialaid</a>
Help Centres (Math/English/Science)	<a href="http://camosun.ca/help-centres">http://camosun.ca/help-centres</a>
Indigenous Student Support	<a href="http://camosun.ca/indigenous">http://camosun.ca/indigenous</a>
International Student Support	<a href="http://camosun.ca/international/">http://camosun.ca/international/</a>
Learning Skills	<a href="http://camosun.ca/learningskills">http://camosun.ca/learningskills</a>
Library	<a href="http://camosun.ca/services/library/">http://camosun.ca/services/library/</a>
Office of Student Support	<a href="http://camosun.ca/oss">http://camosun.ca/oss</a>

Support Service	Website
Ombudsperson	<a href="http://camosun.ca/ombuds">http://camosun.ca/ombuds</a>
Registration	<a href="http://camosun.ca/registration">http://camosun.ca/registration</a>
Technology Support	<a href="http://camosun.ca/its">http://camosun.ca/its</a>
Writing Centre	<a href="http://camosun.ca/writing-centre">http://camosun.ca/writing-centre</a>

If you have a mental health concern, please contact Counselling to arrange an appointment as soon as possible. Counselling sessions are available at both campuses during business hours. If you need urgent support after-hours, please contact the Vancouver Island Crisis Line at 1-888-494-3888 or call 911.

## COLLEGE-WIDE POLICIES, PROCEDURES, REQUIREMENTS, AND STANDARDS

### Academic Accommodations for Students with Disabilities

The College is committed to providing appropriate and reasonable academic accommodations to students with disabilities (i.e. physical, depression, learning, etc). If you have a disability, the [Centre for Accessible Learning](#) (CAL) can help you document your needs, and where disability-related barriers to access in your courses exist, create an accommodation plan. By making a plan through CAL, you can ensure you have the appropriate academic accommodations you need without disclosing your diagnosis or condition to course instructors. Please visit the CAL website for contacts and to learn how to get started:

<http://camosun.ca/services/accessible-learning/>

### Academic Integrity

Please visit <http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.13.pdf> for policy regarding academic expectations and details for addressing and resolving matters of academic misconduct.

### Academic Progress

Please visit <http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.1.pdf> for further details on how Camosun College monitors students' academic progress and what steps can be taken if a student is at risk of not meeting the College's academic progress standards.

### Course Withdrawals Policy

Please visit <http://camosun.ca/about/policies/education-academic/e-2-student-services-and-support/e-2.2.pdf> for further details about course withdrawals. For deadline for fees, course drop dates, and tuition refund, please visit <http://camosun.ca/learn/fees/#deadlines>.

### Grading Policy

Please visit <http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.5.pdf> for further details about grading.

### Grade Review and Appeals

Please visit <http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.14.pdf> for policy relating to requests for review and appeal of grades.

### Mandatory Attendance for First Class Meeting of Each Course

Camosun College requires mandatory attendance for the first class meeting of each course. If you do not attend, and do not provide your instructor with a reasonable reason in advance, you will be removed from the course and the space offered to the next waitlisted student. For more information, please see the “Attendance” section under “Registration Policies and Procedures” (<http://camosun.ca/learn/calendar/current/procedures.html>) and the Grading Policy at <http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.5.pdf>.

### Medical / Compassionate Withdrawals

Students who are incapacitated and unable to complete or succeed in their studies by virtue of serious and demonstrated exceptional circumstances may be eligible for a medical/compassionate withdrawal. Please visit <http://camosun.ca/about/policies/education-academic/e-2-student-services-and-support/e-2.8.pdf> to learn more about the process involved in a medical/compassionate withdrawal.

### Sexual Violence and Misconduct

Camosun is committed to creating a campus culture of safety, respect, and consent. Camosun’s Office of Student Support is responsible for offering support to students impacted by sexual violence. Regardless of when or where the sexual violence or misconduct occurred, students can access support at Camosun. The Office of Student Support will make sure students have a safe and private place to talk and will help them understand what supports are available and their options for next steps. The Office of Student Support respects a student’s right to choose what is right for them. For more information see Camosun’s Sexualized Violence and Misconduct Policy: <http://camosun.ca/about/policies/education-academic/e-2-student-services-and-support/e-2.9.pdf> and [camosun.ca/sexual-violence](http://camosun.ca/sexual-violence). To contact the Office of Student Support: [oss@camosun.ca](mailto:oss@camosun.ca) or by phone: 250-370-3046 or 250-3703841

### Student Misconduct (Non-Academic)

Camosun College is committed to building the academic competency of all students, seeks to empower students to become agents of their own learning, and promotes academic belonging for everyone. Camosun also expects that all students to conduct themselves in a manner that contributes to a positive, supportive, and safe learning environment. Please review Camosun College’s Student Misconduct Policy at <http://camosun.ca/about/policies/education-academic/e-2-student-services-and-support/e-2.5.pdf> to understand the College’s expectations of academic integrity and student behavioural conduct.

**Changes to this Syllabus:** Every effort has been made to ensure that information in this syllabus is accurate at the time of publication. The College reserves the right to change courses if it becomes necessary so that course content remains relevant. In such cases, the instructor will give the students clear and timely notice of the changes.