

COURSE SYLLABUS



COURSE TITLE: Elementary Statistics

CLASS SECTION: D05

TERM: Winter 2022

COURSE CREDITS: 3

DELIVERY METHOD(S): Online Asynchronous

Camosun College campuses are located on the traditional territories of the Lək̓ʷəŋən and W̱SÁNEĆ peoples. We acknowledge their welcome and graciousness to the students who seek knowledge here.

Learn more about Camosun's [Territorial Acknowledgement](#).

The COVID-19 pandemic has presented many challenges, and Camosun College is committed to helping you safely complete your education. Following guidelines from the Provincial Health Officer, WorkSafe BC, and the B.C. Government to ensure the health and wellbeing of students and employees, Camosun College is providing you with every possible protection to keep you safe. Our measures include COVID Training for students and employees, health checks, infection control protocols including sanitization of spaces, PPE and ensuring physical distancing. For details on these precautions please follow this link: <http://camosun.ca/covid19/faq/covid-fags-students.html>. However, if you're at all uncomfortable being on campus, please share your concerns with your Instructor. If needed, alternatives will be discussed.

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 explanation in advance, you will be removed from the course and the space offered to the next waitlisted student.

INSTRUCTOR DETAILS

NAME: Joel Tamosiunas

EMAIL: TamosiunasJ@camosun.ca

OFFICE: Online via Collaborate

HOURS: As announced weekly and by appointment

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.

CALENDAR DESCRIPTION

Students will learn statistical methods for applications in business. They will study how to describe and analyze data, analyze decisions made with uncertainty, interpret descriptive statistics for one and two variables, and make predictions based on statistical data.

PREREQUISITE(S):

One of:

- C in Pre-calculus 11
- C in Foundations of Math 11
- C in MATH 077
- C in MATH 137
- C+ in Math 072
- C+ in MATH 075
- C+ in MATH 135

COURSE LEARNING OUTCOMES / OBJECTIVES

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

1. Identify and utilize statistical information available in the databases, media, and business environments to guide decision making.
2. Analyze quantitative data to interpret their use in business applications.
3. Calculate and interpret descriptive statistics for one and two variable problems.
4. Apply the common rules of probability to discrete and continuous distributions.
5. Construct and interpret a confidence interval estimate.
6. Use the central limit theorem to determine possible sample sizes for various business problems.
7. Carry out an appropriate hypothesis test in a one and two sample hypothesis test.

REQUIRED MATERIALS & RECOMMENDED PREPARATION / INFORMATION

Text: No text is required for this course. All instructional materials will be provided via D2L.

Other: Texas Instruments BAII+ financial calculator (Recommended)

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

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

WEEK or DATE RANGE	UNIT	TOPIC
Jan 10 to Jan 14	Unit 1: Introduction to statistics & begin Unit 2	Topic 1 – Introduction Topic 2.1 – Tables, Charts, & Graphs
Jan 17 to Jan 21	Unit 2: Descriptive Statistics	Topic 2.2 – Essential Numerical Stats
Jan 24 to Jan 28		Topic 2.3 – Skewness & Correlation
Jan 31 to Feb 4	Catch Up & Review Week	Exam 1
Feb 7 to Feb 11	Unit 3: Random Variables, Probability, and Probability Distributions	Topic 3.1 – Random Variables & Probability
Feb 14 to Feb 18		Topic 3.2 – Discrete Probability Distributions
Feb 21* to Feb 25	N/A	Family Day Holiday* & Reading Break

WEEK or DATE RANGE	UNIT	TOPIC
Feb 28 to Mar 4	Topic 3 Continued	Topic 3.3 – Continuous Probability Distributions
Mar 7 to Mar 11	Catch Up & Review Week	Exam 2
Mar 14 to Mar 18	Unit 4: Inferential Statistics	Topic 4.1 – Sampling & the CLT
Mar 21 to Mar 25		Topic 4.2 – Confidence Intervals
Mar 28 to Apr 1		Topic 4.3 – Hypothesis Tests
Apr 4 to Apr 8		Topic 4.4 – Linear Regression of Bivariate Data *Good Friday holiday
Apr 11 to Apr 15*		
Apr 19 to Apr 27	Exam Period	Exam 3

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 noticed 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
3 Exams @ 25% each	75%
3 Assignments @ 5% each	15%
5 Discussion Posts @ 2% each	10%
	TOTAL
	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

Exams: You will have three exams administered online. Each exam will be available to you for a 48-hour window, on the dates posted below. You may choose when during these periods you would like to write the exam; however, the exams are limited to between 60 to 90 minutes duration once started and must be completed prior to the closure of the exam window. More details of the exams will be posted on the course webpage.

Exam 1	Exam 2	Exam 3
Coverage: Units 1 & 2	Coverage: Unit 3	Coverage: Unit 4
Opens: 0H Thursday, February 3	Opens: 0H Thursday, March 10	Opens: 0H Tuesday, April 19

Closes: 2359H Friday, February 4	Closes: 2359H Friday, March 11	Closes: 2359H Wednesday, April 20
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Assignments: You will complete 3 assignments during the semester. The assignments are problem based and provide an opportunity for you to receive feedback prior to the exams. Assignments are due on the Friday before each exam – no extensions will be provided. Additional details of the assignments will be posted on the course webpage.

Discussion Posts: There will be 5 online discussions relating to the course content during the semester. You will receive credit for providing thoughtful contributions to the discussion. Posts will be assigned a pass/fail grade based on your instructor’s assessment of whether they meet that criterion. Due dates and details about the discussion posts can be found on the course webpage.

SCHOOL OR DEPARTMENTAL INFORMATION

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.

STUDENT RESPONSIBILITY

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

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	http://camosun.ca/advising
Accessible Learning	http://camosun.ca/accessible-learning
Counselling	http://camosun.ca/counselling
Career Services	http://camosun.ca/coop
Financial Aid and Awards	http://camosun.ca/financialaid
Help Centres (Math/English/Science)	http://camosun.ca/help-centres
Indigenous Student Support	http://camosun.ca/indigenous
International Student Support	http://camosun.ca/international/
Learning Skills	http://camosun.ca/learningskills
Library	http://camosun.ca/services/library/
Office of Student Support	http://camosun.ca/oss
Ombudsperson	http://camosun.ca/ombuds
Registration	http://camosun.ca/registration
Technology Support	http://camosun.ca/its
Writing Centre	http://camosun.ca/writing-centre

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. To contact the Office of Student Support: 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.