

COURSE SYLLABUS



COURSE TITLE: STAT-116-Elementary Statistics

CLASS SECTION: B01

TERM: 2024F

COURSE CREDITS: 3

DELIVERY METHOD(S): Blended

Camosun College respectfully acknowledges that our campuses are situated on the territories of the Lək̓ʷəŋən (Songhees and Kosapsum) and WSÁNEĆ peoples. We honour their knowledge and welcome to all students who seek education here.

INSTRUCTOR DETAILS

NAME: Susan Chen

EMAIL: chen@camosun.ca

OFFICE: E242

HOURS: Tu 11:30 – 12:20, W 12:30 - 1:20, Th 9:30 – 10:20, 11:30 – 12:20

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

This course is mainly for students in Criminal Justice, Dental Hygiene, Social Sciences and general arts. Topics include descriptive statistics, probability and probability models, one-and two-sample inferences for population means and proportions, simple linear correlation and regression, categorical data analyses.

PREREQUISITE(S):

One of:

C in Math 11

C- in Pre-calculus 12

C in MATH 072

C in MATH 075

C in MATH 077

C in MATH 135

C in MATH 137

CO-REQUISITE(S):

EQUIVALENCIES:

MATH 116

COURSE LEARNING OUTCOMES / OBJECTIVES

Upon completion of this course a student will be able to:

Identify problems in our society for which statistical analyses are suitable.

Compute and interpret descriptive statistics.

Solve basic probability problems. Distinguish between continuous and discrete probability distributions. Perform calculations involving various probability distributions including Binomial and Normal distributions.

Estimate the population mean and population proportion, and determine sample size.

Estimate the difference between two means, or two proportions.

Test hypotheses about a mean, a proportion, a difference of two means, or a difference of two proportions.

Perform basic correlation and simple linear regression analysis.

Perform basic categorical data analysis.

Perform basic statistical data analysis with the aid of a computer software package.

REQUIRED MATERIALS & RECOMMENDED PREPARATION / INFORMATION

(a) Texts

- 1) Open Source PDF textbook: OpenIntro Statistics 4th edition by David M Diez et al. Download the textbook as a Single PDF file at <https://www.openintro.org/stat/textbook.php> Or, download the Book PDF Best for Screen Readers at: https://www.openintro.org/go/?id=os4_for_screen_readers&referrer=/book/os/index.php Hard copies are sold in the Camosun Bookstore at Lansdowne.
- 2) STAT 116 Skeleton Notes, available in the Lansdowne Bookstore and in D2L
- 3) STAT 116 Excel Lab tutorial manuals, available in D2L.

(b) Other

A Sharp EL-531 Scientific Calculator

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.

Lectures: Wednesdays 10:30 - 12:20 in Y316

WEEK and DATE RANGE	VIDEOS TO COMPLETE BEFORE 10:30 AM WEDNESDAY FOR THESE SECTIONS IN TEXTBOOK	*MOMs DUE THURSDAY **LAB HW DUE FRIDAY ALL BY 11:59 PM	TESTS ALL ON WEDNESDAYS IN CLASS
Week 1, Sep 2 - 6	Day 1 intro, 1.1 - 1.4		
Week 2, Sep 9 - 13	2.1, 2.2	MOM 1 (1.1-1.3) Math Review due in class Lab intro HW	#Quiz 1 (2.1-2.2)
Week 3, Sep16 - 20	Ch8	MOM 2 (1.4-2.2)	Quiz 2 (ch8)
Week 4, Sep 23 – 27	Ch3	MOM 3(ch8) Lab 1 HW	Quiz 3 (ch3)
Week 5, Sep 30 – Oct 4	Ch3 Review 1		Midterm 1 (ch1,2,8)
Week 6, Oct 7 – 11	4.1	MOM 4(ch3) Lab 2 HW	Quiz 4 (4.1)
Week 7, Oct 14 – 18	4.3, 5.1	MOM 5 (4.1)	Quiz 5 (4.3, 5.1)
Week 8, Oct 21 – 25	7.1	MOM 6 (4.3, 5.1) Lab 3 HW	Quiz 6 (7.1)
Week 9, Oct 28 – Nov 1	7.1		Midterm 2 (ch3,4,5)
Week 10, Nov 4– 8	7.2, 7.3	MOM 7 (7.1) Lab 4 HW	Quiz 7 (7.2-7.3)
Week 11, Nov 11 – 15	7.5, 6.1	MOM 8 (7.2, 7.3)	Quiz 8 (7.5, 6.1)
Week 12. Nov 18 – 22	6.2, 6.4	Lab 5 HW	Quiz 9 (6.2, 6.4)
Week 13. Nov 25 – 29	6.4, Review 3	MOM 9 (ch6)	Midterm 3 (ch6,7)
Week 14, Dec 2 – 6	Final review		
Week 15-16, Dec 9 -13	Final Exam Period		Final Exam Time TBA

*MOM = My Open Math online assignments can be accessed and submitted at <https://www.myopenmath.com>,

** Lab HW assignments will be due in the **D2L Assignments folder**

#One lowest quiz will be dropped

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](https://camosun.ca/services/academic-supports/accessible-learning/academic-accommodations-exams). <https://camosun.ca/services/academic-supports/accessible-learning/academic-accommodations-exams>

EVALUATION OF LEARNING

DESCRIPTION	WEIGHTING
10 Assignments	10%
9 Quizzes	10%
6 Labs	10%
3 Midterms	40%
Final Examination	30%
TOTAL	100%

All tests must be written during the scheduled times. In the event that you missed a test due to a family emergency or illness, the weight of the test will be put on other exams of the same category or the final exam *provided* the instructor is notified *before* the test. NO late assignments/labs will be accepted.

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](#) policy for more information.

<https://camosun.ca/sites/default/files/2021-05/e-1.14.pdf>

COURSE GUIDELINES & EXPECTATIONS

You are encouraged to connect with your classmates and have a study buddy to enrich your learning experiences. Peers are best teachers, and a best way to learn is to explain to someone of something that you have just learned.

Excel Labs

This course includes computer lab sessions designed to familiarize students with the use of a computer program to perform data analysis and the procedure of reporting data analysis results. Microsoft Excel with add-ins Data Analysis ToolPak will be used for this purpose. The lab tutorials which also contains lab assignments can be found in D2L/Course Tools/Content/Excel Labs. Students in *Blended classes will do these labs on your own time and can be on your own computer or any campus computers.*

Homework

"I hear and I forget. I see and I remember. I do and I understand." The homework for this course includes: 1) MyOpenMath (MOM) online assignments, and 2) Lab assignments. *In order to get a full understanding of the course materials, it is necessary to complete all the homework on time. It is essential to review the notes and do homework after every class and to keep up consistently. This course is cumulative, **cramming does not work.***

Midterms and Reviews

There will be three midterms. Before each of the 3 midterms, a set of review problems will be available for practice.

Math Lab: You can get **free tutoring** from our knowledgeable instructional assistants (IA) in the Math Lab. Lab hours can be viewed at <http://camosun.ca/services/help-centres/>

Desire2Learn (D2L)

This class has the assistance of D2L, an online course management system. If you have never used D2L before, please visit this **open site for D2L tutorials:** <https://elearningtutorialscamosun.opened.ca/>. All course related materials and announcements will be available in D2L. It is your responsibility to subscribe to the notifications on D2L and check the site regularly.

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 camosun.ca/services.

Support Service	Website
Academic Advising	camosun.ca/services/academic-supports/academic-advising
Accessible Learning	camosun.ca/services/academic-supports/accessible-learning
Counselling	camosun.ca/services/health-and-wellness/counselling-centre
Career Services	camosun.ca/services/co-operative-education-and-career-services

Support Service	Website
Financial Aid and Awards	camosun.ca/registration-records/financial-aid-awards
Help Centres (Math/English/Science)	camosun.ca/services/academic-supports/help-centres
Indigenous Student Support	camosun.ca/programs-courses/iecc/indigenous-student-services
International Student Support	camosun.ca/international
Learning Skills	camosun.ca/services/academic-supports/help-centres/writing-centre-learning-skills
Library	camosun.ca/services/library
Office of Student Support	camosun.ca/services/office-student-support
Ombudsperson	camosun.ca/services/ombudsperson
Registration	camosun.ca/registration-records/registration
Technology Support	camosun.ca/services/its
Writing Centre	camosun.ca/services/academic-supports/help-centres/writing-centre-learning-skills

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 Integrity

Students are expected to comply with all College policy regarding academic integrity; which is about honest and ethical behaviour in your education journey. The following guide is designed to help you understand your responsibilities: <https://camosun.libguides.com/academicintegrity/welcome>
Please visit <https://camosun.ca/sites/default/files/2021-05/e-1.13.pdf> for Camosun's Academic Integrity policy and details for addressing and resolving matters of academic misconduct.

Academic Accommodations for Students with Disabilities

Camosun College is committed to achieving full accessibility for persons with disabilities. Part of this commitment includes arranging appropriate academic accommodations for students with disabilities to ensure they have an equitable opportunity to participate in all of their academic activities. If you are a student with a documented disability and think you may need accommodations, you are strongly encouraged to contact the Centre for Accessible Learning (CAL) and register as early as possible. Please visit the CAL website

for more information about the process of registering with CAL, including important deadlines:

<https://camosun.ca/cal>

Academic Progress

Please visit <https://camosun.ca/sites/default/files/2023-02/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 <https://camosun.ca/sites/default/files/2021-05/e-2.2.pdf> for further details about course withdrawals. For deadline for fees, course drop dates, and tuition refund, please visit <https://camosun.ca/registration-records/tuition-fees#deadlines>.

Grading Policy

Please visit <https://camosun.ca/sites/default/files/2021-05/e-1.5.pdf> for further details about grading.

Grade Review and Appeals

Please visit <https://camosun.ca/sites/default/files/2021-05/e-1.14.pdf> for policy relating to requests for review and appeal of grades.

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 (see [Medical/Compassionate Withdrawals policy](#)). Please visit <https://camosun.ca/services/forms#medical> to learn more about the process involved in a medical/compassionate withdrawal.

Sexual Violence

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 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 Policy: <https://camosun.ca/sites/default/files/2021-05/e-2.9.pdf> and camosun.ca/services/sexual-violence-support-and-education.

To contact the Office of Student Support: oss@camosun.ca or by phone: 250-370-3046 or 250-370-3841

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 <https://camosun.ca/sites/default/files/2021-05/e-2.5.pdf> to understand the College's expectations of academic integrity and student behavioural conduct.

Looking for other policies?

The full suite of College policies and directives can be found here: <https://camosun.ca/about/camosun-college-policies-and-directives>

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.

