

# COURSE SYLLABUS



COURSE TITLE: STAT-116: Elementary Statistics

CLASS SECTION: 001

TERM: Winter 2024

COURSE CREDITS: 3

DELIVERY METHOD(S): Face-to-face

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: Chedo Barone

EMAIL: baronec@camosun.ca

OFFICE: Ewing 266

HOURS: Monday 2:30-3:20, Wednesday 12:30-1:20, Thursday 11:30-1:20, Friday 12:30-1:20

*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.*

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## 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):

Not Applicable

### EXCLUSION(S):

Not Applicable

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## COURSE LEARNING OUTCOMES / OBJECTIVES

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

1. Identify problems in our society for which statistical analyses are suitable.
2. Compute and interpret descriptive statistics.
3. Solve basic probability problems. Distinguish between continuous and discrete probability distributions. Perform calculations involving various probability distributions including Binomial and Normal distributions.
4. Estimate the population mean and population proportion, and determine sample size.
5. Estimate the difference between two means, or two proportions.
6. Test hypotheses about a mean, a proportion, a difference of two means, or a difference of two proportions.
7. Perform basic correlation and simple linear regression analysis.
8. Perform basic categorical data analysis.
9. Perform basic statistical data analysis with the aid of a computer software package.

## REQUIRED MATERIALS & RECOMMENDED PREPARATION / INFORMATION

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### Texts/Notes:

- 1) Open Source PDF textbook: OpenIntro Statistics 4<sup>th</sup> edition by David M Diez et al. Free pdf download at <https://www.openintro.org/stat/textbook.php>. Hard copies are sold in the Camosun Bookstore at Lansdowne.
- 2) My projected course notes, which will be posted on D2L.
- 3) STAT 116 Excel Lab tutorial manuals and assignments, posted on D2L.

**Other:** A Sharp EL-531 Scientific 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 and DATE RANGE	COVERAGE IN TEXTBOOK	*MOMs DUE THURSDAYS BY 11:59 PM	**LAB HW DUE FRIDAYS BY 11:59 PM	TESTS/QUIZZES ALL ON THURSDAYS
Week 1, Jan 8 – Jan 12	Day 1 intro, 1.1 - 1.4			
Week 2, Jan 15 – Jan 19	2.1, 2.2	MOM 1 (1.1-1.3)	Lab intro (in D2L)	Quiz 1 (1.1-2.2)
Week 3, Jan 22 – Jan 26	Ch8	MOM 2 (1.4-2.2)		Quiz 2 (ch8)
Week 4, Jan 29 – Feb 2	Review 1, Ch3	MOM 3(ch8)	Lab 1	Quiz 3 (ch3)
Week 5, Feb 5 – Feb 9	Ch3			<b>Midterm 1 (ch1,2,8)</b>
Week 6, Feb 12 – Feb 16	4.1, 4.3	MOM 4(ch3)	Lab 2	Quiz 4 (4.1)

Week 7, Feb 19 – Feb 23	Family Day & Reading Break			
Week 8, Feb 26 – Mar 1	4.3, 5.1	MOM 5 (4.1) MOM 6 (4.1, 4.3)	Lab 3	Quiz 5 (4.3, 5.1)
Week 9, Mar 4 – Mar 8	Review 2, 7.1	MOM 7 (5.1)		<b>Midterm 2 (ch3,4,5)</b>
Week 10, Mar 11 – Mar 15	7.1		Lab HW4	Quiz 6 (7.1)
Week 11, Mar 18 – Mar 22	7.2, 7.3	MOM 8 (7.1)		Quiz 7 (7.2, 7.3)
Week 12, Mar 25 – Mar 29	7.5, 6.1	MOM 9 (7.2, 7.3)	Lab HW5	Quiz 8 (7.5, 6.1)
Week 13, Apr 1 – Apr 5	Review 3. 6.2			<b>Midterm 3 (ch7,6.1)</b>
Week 14, Apr 8 – Apr 12	6.4 Final review	MOM 10 (ch6)	Lab Final <b>Due by Fri Apr 12, at 11:59PM</b>	Quiz 9 (6.2, 6.4)
April 15 - 23	Final Exam Period			

\*MOM = My Open Math online assignments are at <https://www.myopenmath.com>,

\*\* Lab HW assignment dropboxes can be found on D2L under the **Assignments** section.

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

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DESCRIPTION	WEIGHTING
10 MOM Assignments	10%
9 Quizzes	9%
6 Labs	10%
3 Midterms	30%
Lab Final Examination	11%
Final Examination	30%
<b>TOTAL</b>	<b>100%</b>

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.

## COURSE GUIDELINES & EXPECTATIONS

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### 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.

We will be meeting in **Ewing 115 on Monday from 12:30 – 1:20 in Weeks 2, 4, 6, 8, 10, 12, and 14**. On the odd-numbered weeks we have no lab meeting. During the lab meeting, I will demonstrate some functions on Excel. You will then use those functions to complete that week's Lab Assignment. By the end of the lab meeting, you should have all of your required output for that week's Lab Assignment. Often, there will be students who will have completed the entire assignment by the end of the lab meeting.

There is no need to rush, however. Your lab assignment is not due until the end of the week, on **Friday at 11:59PM**. The assignments will be submitted on D2L. The dropbox for each assignment will be found by clicking **Assignments** at the top of the page.

### 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, 2) Lab assignments, and 3) Suggested practice problems from the textbook. *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.***

**Quizzes:** Starting in Week 2, a quiz will be written in the last 15 minutes of each Thursday's class (with the exception. Quiz problems will be mostly modified examples from the notes.

### Midterms and Reviews

There will be three 70-minute midterms. Before each of the 3 midterms, there will be a review session and a set of review problems to practice.

### Missed Tests

All tests must be written in class during the scheduled times. If you miss a quiz or test due to a family emergency or illness, you can be excused from the quiz/test, and the weight of the quiz/test will be put on other items of the same category (i.e. marks for missed quizzes go to quizzes, marks for missed midterms to midterms). There will not be any rewrites of tests.

### Desire2Learn (D2L)

This class has the assistance of D2L, an online course management system. Please visit this *open site* for D2L tutorials even if you have used D2L before: <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.

## SCHOOL OR DEPARTMENTAL INFORMATION

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

## 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/>.

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>
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

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### 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.