



**CAMOSUN COLLEGE**  
**School of Arts & Science**  
**Department of Mathematics & Statistics**

**STAT-116-D01**  
**Elementary Statistics**  
**Fall 2020**

**COURSE OUTLINE**

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The course description is available on the web @ <http://camosun.ca/learn/calendar/current/web/stat.html>

☐ Please note: This outline will not be kept indefinitely. It is recommended students keep this outline for their records, especially to assist in transfer credit to post-secondary institutions.

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**1. Instructor Information**

(a) Instructor	Chedo Barone
(b) Office hours	Tues - Fri (2:30PM - 3:30PM), or by appointment. Held on Blackboard Collaborate; link is posted on D2L
(c) Location	Online
(d) Phone	<b>Alternative:</b>
(e) E-mail	baronec@camosun.ca
(f) Website	D2L (login at online.camosun.ca)

**2. Intended Learning Outcomes**

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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.

**3. Required Materials**

- (a) Texts

1. Open Source PDF textbook: OpenIntro Statistics 4<sup>th</sup> edition by David M Diez et al. Free download at <https://www.openintro.org/stat/textbook.php>. Hard copies are sold in the Camosun Bookstore at Lansdowne.
2. Course Notes, available on D2L
3. *STAT 116 Excel Lab tutorial manuals*, available on D2L.

(b) Other

A Sharp EL-531 Scientific Calculator, or an online Statistics Calculator, e.g.,

- 1) for computing Mean and Standard Deviation: <https://www.calculator.net/statistics-calculator.html>
- 2) for Regression Equation: <https://www.socscistatistics.com/tests/regression/default.aspx>

#### 4. Course Content and Schedule

For the schedule of Assignments and Tests, please see the Stat 116 Schedule, posted on D2L.

**Content:** We will be covering Chapters 1 - 8 of the text, in the order: 1,2,8,3,4,5,7,6

<u>Topic</u>	Chapter
Introduction to Data	1
Summarizing Data	2
Probability	3
Distributions of Random Variables	4
Foundations for Inference	5
Inferences for Categorical Data	6
Inferences for Numerical Data	7
Introduction to Linear Regression	8

#### **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 on D2L.

All Camosun College current students with a valid Camosun ID number qualify for a free Office 365 subscription. Go to <http://camosun.ca/services/its/other-services.html> for more details.

**Assignments:** See the schedule for the due dates for the assignments. On the indicated day, the assignment is due to be submitted before 11:59PM.

**Late Assignments:** You may submit an assignment the day after the due date, for 80% of the value of the assignment, or two days after the due date for 60% of the value of the assignment. Assignments will not be accepted more than two days after the due date.

For example, if the assignment is due on a Friday, then I will accept late submissions on Saturday and Sunday, but will not accept late submissions on Monday or later.

**Late Labs:** Late lab assignments will not be accepted for marking.

#### 5. Basis of Student Assessment (Weighting)

**Assignments:** Assignment 0 (worth 1%), and Assignments 1-8 (each worth 5%), for a total of 41%

**Labs:** 6 labs, worth 14%

**Tests:** 3 tests, each worth 15%, for a total of 45%

Please see the Stat 116 Schedule, posted on D2L for the dates of the assignments and tests.

## 6. Grading System

X	Standard Grading System (GPA)
	Competency Based Grading System

## 7. Recommended Materials to Assist Students to Succeed Throughout the Course

### Math Lab (Help Centre)

Math lab **E224** is staffed with instructional assistants available for **free** help. Please email [themathlabs@gmail.com](mailto:themathlabs@gmail.com) to arrange an appointment. Lab hours can be viewed at <http://camosun.ca/services/help-centres/>

## 8. College Supports, Services and Policies



### Immediate, Urgent, or Emergency Support

If you or someone you know requires immediate, urgent, or emergency support (e.g. illness, injury, thoughts of suicide, sexual assault, etc.), **SEEK HELP**. Resource contacts @ <http://camosun.ca/about/mental-health/emergency.html> or <http://camosun.ca/services/sexual-violence/get-support.html#urgent>

### College Services

Camosun offers a variety of health and academic support services, including counselling, dental, disability resource centre, help centre, learning skills, sexual violence support & education, library, and writing centre. For more information on each of these services, visit the **STUDENT SERVICES** link on the College website at <http://camosun.ca/>

### College Policies

Camosun strives to provide clear, transparent, and easily accessible policies that exemplify the college's commitment to life-changing learning. It is the student's responsibility to become familiar with the content of College policies. Policies are available on the College website at <http://camosun.ca/about/policies/>. Education and academic policies include, but are not limited to, Academic Progress, Admission, Course Withdrawals, Standards for Awarding Credentials, Involuntary Health and Safety Leave of Absence, Prior Learning Assessment, Medical/Compassionate Withdrawal, Sexual Violence and Misconduct, Student Ancillary Fees, Student Appeals, Student Conduct, and Student Penalties and Fines.

### A. **GRADING SYSTEMS** <http://camosun.ca/about/policies/index.html>

The following two grading systems are used at Camosun College:

**1. Standard Grading System (GPA)**

Percentage	Grade	Description	Grade Point Equivalency
90-100	A+		9
85-89	A		8
80-84	A-		7
77-79	B+		6
73-76	B		5
70-72	B-		4
65-69	C+		3
60-64	C		2
50-59	D		1
0-49	F	Minimum level has not been achieved.	0

**2. Competency Based Grading System (Non GPA)**

This grading system is based on satisfactory acquisition of defined skills or successful completion of the course learning outcomes

Grade	Description
COM	The student has met the goals, criteria, or competencies established for this course, practicum or field placement.
DST	The student has met and exceeded, above and beyond expectation, the goals, criteria, or competencies established for this course, practicum or field placement.
NC	The student has not met the goals, criteria or competencies established for this course, practicum or field placement.

**B. Temporary Grades**

Temporary grades are assigned for specific circumstances and will convert to a final grade according to the grading scheme being used in the course. See Grading Policy at <http://camosun.ca/about/policies/index.html> for information on conversion to final grades, and for additional information on student record and transcript notations.

Temporary Grade	Description
I	<i>Incomplete:</i> A temporary grade assigned when the requirements of a course have not yet been completed due to hardship or extenuating circumstances, such as illness or death in the family.
IP	<i>In progress:</i> A temporary grade assigned for courses that are designed to have an anticipated enrollment that extends beyond one term. No more than two IP grades will be assigned for the same course.
CW	<i>Compulsory Withdrawal:</i> A temporary grade assigned by a Dean when an instructor, after documenting the prescriptive strategies applied and consulting with peers, deems that a student is unsafe to self or others and must be removed from the lab, practicum, worksite, or field placement.