

SAMPLE COURSE OUTLINE

Course Code, Number, and Title:

STAT 1181: Descriptive and Elementary Inferential Statistics

Course Format:

[Course format may vary by instructor. The typical course format would be:]

Lecture 3.0 h + Seminar 0.0 h + Lab. 1.0 h

Credits: 3.0

Transfer Credit: For information, visit bctransferguide.ca

Course Description, Prerequisites, Corequisites:

A first course in probability and statistics including introduction to probability, descriptive statistics, regression, correlation, contingency tables, sampling distributions, estimation, hypothesis testing. This course may be followed by STAT 2225 or STAT 2281.

Students will receive college credit for only one of STAT 1123, 1124, or 1181.

Prerequisite(s): A minimum "C-" grade in one of the following: MATH 1153, 1171, 1173, 1174, 1175, or equivalent (all may be taken concurrently). Prerequisites are valid for only three years.

Learning Outcomes:

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

- Compare and contrast methods of selecting a sample
- Identify and explain sources of bias
- Select and apply the appropriate techniques for describing one- and two-variable data and interpreting the results
- Identify and use appropriate methods for solving probability problems and interpret the results
- Identify the concept of a sampling distribution and its application in the Central Limit Theorem
- Carry out interval estimation and hypothesis testing for a single population and interpret the results, including checking the necessary assumptions/conditions
- Apply statistical methodology in real-life examples using everyday language
- Use statistical software to perform data analysis and to interpret the output
- Produce a report that satisfies a set of criteria in a statistical investigation

Instructor(s): TBA

Office: TBA

Office Hours: TBA

Phone: (604) 323-XXXX

Email: TBA

“This Sample Course Outline is for planning purposes only”.

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Textbook and Course Materials:

[Textbook selection may vary by instructor. An example of texts and course materials for this course might be:]

For textbook information, visit https://mycampusstore.langara.bc.ca/buy_courselisting.asp?selTerm=3|8

Note: *This course may use an electronic (online) instructional resource that is located outside of Canada for mandatory graded class work. You may be required to enter personal information, such as your name and email address, to log in to this resource. This means that your personal information could be stored on servers located outside of Canada and may be accessed by U.S. authorities, subject to federal laws. Where possible, you may log in with an email pseudonym as long as you provide the pseudonym to me so I can identify you when reviewing your class work.*

Assessments and Weighting:

Final Exam 25%

Other Assessments 75%

[An example of other assessments might be:]

Assignments (4) 10%

Term Project 10%

Quizzes (5) 25%

Midterms (2) 30%

Grading System:

Specific grading schemes will be detailed in each course section outline.

Minimum Overall (%)	96	85	80	77	73	68	63	58	53	48
Minimum Final Exam (%)	90	80	75	70	65	60	55	50	45	-
Grade in Course	A+	A	A-	B+	B	B-	C+	C	C-	D

Topics Covered:

[Topics covered may vary by instructor. An example of topics covered might be:]

- Introduction to Statistics
- Sampling and Bias
- Describing Univariate Data Using Graphs
- Describing Univariate Data Using Statistics
- Normal Distributions
- Correlation, Regression, and Residual Analysis
- Chi-square Analysis
- Probability
- Discrete Probability Distributions
- Binomial Distributions
- Sampling Distribution
- Confidence Intervals
- Hypothesis Testing

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As a student at Langara, you are responsible for familiarizing yourself and complying with the following policies:

College Policies:

[E1003 - Student Code of Conduct](#)

[F1004 - Code of Academic Conduct](#)

[E2008 - Academic Standing - Academic Probation and Academic Suspension](#)

[E2006 - Appeal of Final Grade](#)

[F1002 - Concerns about Instruction](#)

[E2011 - Withdrawal from Courses](#)

Departmental/Course Policies:

Information unavailable, please consult Department for details.

SAMPLE