

SAMPLE COURSE OUTLINE

Creation date: November 25, 2020

Revision date:

Course Code, Number, and Title:

STAT 1123: Basic Probability and Statistics for Business

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:

Probability and Statistics play a big role in everyday life and in the business world. In this introductory course, students learn data collection, analysis, presentation of data, probability, sampling distributions, estimation of parameters, hypothesis testing, regression, and tests for categorical data.

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

Prerequisite(s): None, but a grade of "C" or higher in Precalculus 11 (or equivalent) is strongly recommended. 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 sources of bias in data collection
- Select and apply the appropriate techniques for describing one- and two-variable data and interpreting the results
- Solve elementary problems in probability with applications to business and economics
- Evaluate business-related problems using discrete random variables
- Model and solve general probabilities using binomial and normal distributions
- Identify and apply the basic procedures of hypothesis tests and confidence intervals
- 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

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Office: TBA

Phone: (604) 323-XXXX

Email: TBA

Office Hours: TBA

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:) %

Midterms (2): 30%

Term Project: 10%

Assignments: 10%

Quizzes: 25%

Grading System:

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

Information unavailable, please consult Department for details.

Topics Covered:

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

- Introduction to Statistics
- Sampling Methods and Data Collection
- Summarizing Univariate Data using Graphs
- Summarizing Univariate Data using Statistics
- Correlation Analysis
- Simple Linear Regression
- Chi-Square Analysis
- Probability
- Discrete Probability Distributions
- Binomial Probability Distributions
- Normal Probability Distributions

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- Sampling Distributions of Statistics
- Interval Estimation
- Hypothesis Testing

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.

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