SAMPLE COURSE OUTLINE

Course Code, Number, and Title:

KINS 2206: Introduction to Statistics in Kinesiology

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

Lecture 2.0 h + Seminar 0.0 h + Lab. 2.0 h

Credits: 3.0   **Transfer Credit:** For information, visit bctransferguide.ca

Course Description, Prerequisites, Corequisites:

Research in kinesiology is often quantitative in nature and employs scientific methods. An understanding of statistical analyses and how to interpret them are essential to reading and critically evaluating kinesiology research. In this course, students learn about the stages of the research process, sources of data, descriptive statistics, applications of the normal curve and Z-scores, basic probability, standard error, statistical inference (confidence intervals and hypothesis testing), t-tests, one-way analysis of variance (ANOVA), correlation, regression, and selected non-parametric analysis

Click or tap here to enter text.*Prerequisite(s): One of the following: a minimum "C" grade in Foundations of Mathematics 11, Pre-calculus 11, Foundations of Mathematics 12, or Pre-calculus 12; or a minimum "C-" grade in MATH 1150; or SDT 053.*

Learning Outcomes:

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

• Apply the basic concepts and terminology of statistics to real-life situations;
• Summarize data using appropriate graphs and summary statistics;
• Apply common sampling methods and experimental designs;
• Identify and apply the procedures (including checking assumptions) of different kinds of statistical inference (t-tests, one-way analysis of variance, correlation and regressions);
• Apply statistical methodology to real-life examples using everyday language;
• Use statistical software to perform data analysis and to interpret the output.

Instructor(s): TBA
Office: TBA   **Phone: (604) 323-XXXX**
Office Hours: TBA   **Email: TBA**
Textbook and Course Materials:
[Textbook selection may vary by instructor. An example of texts and course materials for this course might be:]

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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 30%
Other Assessments
[An example of other assessments might be:]

Midterm Exam: 40%
Assignments: 10%
Lab work: 20%

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

Passing grade: C.

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

Introduction to Statistics, Research and Measurement
Basic Descriptive Statistics (Measurement of Central Tendency, Measurement of Variability)
Normal Probability Distributions
Observational Studies and Experiments (Sampling Methods, Sampling Errors, Design of Experiments)
Basic Probability and Sampling Distributions
Statistical Inference of One Population (Confidence Intervals, Hypothesis Testing)
Statistical Inference for Two Populations (Independent Samples and Correlated Samples)
Statistical Inference for Three or more Populations (One-way ANOVA)
Correlation and Regressions

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SAMPLE COURSE OUTLINE

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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