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4. The design of experiments is introduced with an emphasis on randomization, treatments, subjects, factors, pairing and controls. Comparisons are made with observational studies.
5. Concepts related to the construction of confidence intervals (e.g. sampling distributions, confidence level, width, interpretation, the effect of sample size) are discussed. Also basic concepts related to the testing of hypotheses (e.g. hypotheses, p-values, statistical significance) are presented.
6. Procedures for means and proportions are discussed with an emphasis on the use of statistical software and the interpretation of results.
7. Procedures for means and proportions are discussed with an emphasis on the use of statistical software and the interpretation of results.
8. One-way analysis of variance procedures are discussed with an emphasis on implementing statistical software and the interpretation of results.
9. Procedures for testing in contingency tables are discussed with an emphasis on the use of statistical software and the interpretation of results. Measures of association are discussed.
10. Simple linear regression is introduced with an emphasis on carrying out regression on actual data using statistical software and the interpretation of results. Related concepts including residuals, least squares fit, testing and the construction of confidence intervals is addressed.

Grading

Assignments

Midterm 1

Midterm 2

Final Exam

100% Final Exam

Above grading is subject to change

Students must pass the final exam in order to pass the course

Materials

will be used during this course

can be accessed via Jupyter, an online platform for

Students requiring accommodations as a result of disability must contact the Centre for Accessible Learning 778-782-3112 or csdo@sfu.ca
