

CGSC 5101 A EXPERIMENTAL METHODS AND STATISTICS

Course	CGSC 5101 A / HCIN 5400
Instructor	John Logan
Term	Fall 2024
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Office Hours	10:30-11:30 AM Mondays

COURSE DESCRIPTION/INSTRUCTOR'S STATEMENT

CGSC 5101/HCIN 5400 is an introduction to experimental design and data analysis. It will cover descriptive statistics and basic inferential statistics required for deciding if results obtained in a study can be generalized to a population or if the results are due to chance or not. You will learn how to use these statistics as well as learn their underlying conceptual basis. You also will learn how to use the statistical software R, both to do analyses but also to generate complete papers that include statistical analyses.

The classes will consist of lectures interspersed with collaborative hands-on activities and analyses using R. If you have a laptop, you are strongly encouraged to bring it to class. Anyone wishing to audit the course should speak to the instructor. Everyone is expected to attend all of the classes, unless there is a documented reason not to do so.

EVALUATION

Four assignments: 1) 20%, 2) 25%, 3) 25%, & 4) 30%

TEXT

Poldrack, R. (2023). Statistical thinking: Analyzing data in an uncertain world. Princeton: Princeton University Press. Paperback version: ISBN 978-0691218441 (https://www.amazon.ca/Statistical-Thinking-Analyzing-Uncertain-World/dp/0691218447/ref=tmm_pap_swatch_0?encoding=UTF8&qid=&sr=) Price (as of July 5, 2024): \$50.00 CD

A Kindle version of the textbook is also available.