

PSYC 5801 W – BAYESIAN STATISTICS

Course	PSYC 5801 W: Bayesian Statistics
Instructor	Kirk Luther
Term	Winter 2021
Email Address	kirk.luther@carleton.ca
Office Location	
Office Hours	TBA

COURSE DESCRIPTION/INSTRUCTOR'S STATEMENT

This course will introduce you to Bayesian Statistics. Bayesian Statistics is an alternative to NHST whereby beliefs are updated based on new information. We will cover topics such as the fundamentals of Bayesian inference (e.g., how it differs from frequentist statistics, benefits of Bayesian approaches, probability distributions), and Bayesian modelling and hypothesis testing (e.g., GLM, hierarchical models).

How we meet in the Winter term will be dependent on the current health situation. It is anticipated that the course will be delivered via both asynchronous and synchronous online components.

EVALUATION

- Weekly problem set (5% each; best 10 out of 12) 50%
- Midterm exam 25%
- Final exam 25%

Please note that the evaluation criteria may change.

TEXT

No textbook required. Readings will be assigned.