

PSYC BC1101 STATISTICS

Professor: Dr. Rob Brotherton

Email: rbrother@barnard.edu

Office Hours: Wednesday 4–5pm, 415M Milbank

Lecture hours: Tuesday & Thursday, 10:10am–11:25am

Lecture venue: 207 Milbank Hall

Course Overview

This course, required for the psychology major, provides an introduction to statistical methods commonly used in psychological research. Topics include measures of central tendency and variability, probability and sampling, confidence intervals and hypothesis testing, t-test and analysis of variance, correlation and regression. In addition to learning the conceptual and mathematical underpinnings of these techniques, you will learn to calculate and interpret statistics with reference to real-world contexts and research questions typical in psychological research. The course includes recitation meetings that provide instruction in the analysis of psychological data using the R statistical software package commonly used by behavioral science researchers.

The course is designed to fulfill these goals:

- Understand what statistics are, and why and when they are needed
- Translate observations about the world into statistical statements and questions
- Learn how statistical methods are used to test psychological hypotheses
- Use statistical software (R) to describe, visualize, analyze, and report data

Class Schedule

[1] "2022-01-01" "2022-01-03" "2022-01-08" "2022-01-10" "2022-01-15"
[6] "2022-01-17" "2022-01-22" "2022-01-24" "2022-01-29" "2022-01-31"
[11] "2022-02-05" "2022-02-07" "2022-02-12" "2022-02-14" "2022-02-19"
[16] "2022-02-21" "2022-02-26" "2022-02-28" "2022-03-05" "2022-03-07"

```
[21] "2022-03-12" "2022-03-14" "2022-03-19" "2022-03-21" "2022-03-26"
[26] "2022-03-28" "2022-04-02" "2022-04-04" "2022-04-09" "2022-04-11"
[31] "2022-04-16" "2022-04-18" "2022-04-23" "2022-04-25" "2022-04-30"
[36] "2022-05-02"
```

```
# A tibble: 1 x 2
  Topic Date
  <chr> <chr>
1 One   01/01/2022
```

Recommended (not required) open-access textbook

Navarro, D. (2017). Learning Statistics with R. <https://learningstatisticswithr.com/>