

SC200: Statistics

Tuesdays & Thursdays: 9:00-10:15am

Instructor: Kristen Drummey
Email: heimkr@bc.edu
Phone: (617) 319-9230

Office: McGuinn 410B
Office Hours: Tuesdays 10:30-11:30
& By Appointment

Required Text:

- *The Essentials of Statistics: A Tool for Social Research*. Joseph F. Healey. Belmont, CA: Thomson Wadsworth, 2007.

Optional (Recommended) Text:

- *Statistics for the Terrified*. (Fourth Edition.) John H. Kranzler. Upper Saddle River, NJ: Pearson Prentice Hall, 2007.

Course Objective:

Over the course of the semester, you will be instructed in the basic statistical tools applied by researchers in the social sciences. You will be trained to carry out data analysis and (perhaps more importantly) to read and understand quantitative analyses within the field of Sociology. You will also become proficient in the use of SPSS, statistical software for data management and analysis.

Course Grading

1. Homework Assignments	30%
2. Quizzes	30%
3. Midterm (Thursday, February 22 nd)	20%
4. Final Exam (Monday, May 14 th)	20%

Important Policies

- I welcome you all to see me for extra help outside of class (either during my scheduled office hour or by appointment) *IF* you have attended the class itself.
- If you are going to miss class because of an illness or another emergency, please do your best to contact me via email before class begins. (Especially if there is a quiz scheduled or an assignment due that day.)
- You may work on your homework assignments together, but you must turn in your own work – that means choosing unique variables and completing your write-ups independently.
- Late assignments will be penalized 1 point (out of 10) for each day that they are late.
- There will be four quizzes during the semester – during the last 30 minutes of class time on the scheduled dates. Your quiz grade will be comprised of the sum of your *best three* quiz scores.
- There will be no make-up exams or quizzes, except under extreme circumstances.

Course Schedule

Week 1 - *Defining & Describing Variables*

Tuesday, January 16th

Thursday, January 18th

- Healey, Chapter 1: pp. 8-21.
- Kranzler, Chapter 1: pp. 3-7 & Chapter 2: pp. 8-16.

Week 2 – *Central Tendency*

Tuesday, January 23rd

- Healey, Chapter 2: pp. 28-41.
- Kranzler, Chapter 3: pp. 17-27.

Thursday, January 25th

- Healey, Chapter 3: pp. 65-75.
- Kranzler, Chapter 4: pp. 31-42.
- ✓ ASSIGNMENT 1 DUE

Week 3 - *Dispersion*

Tuesday, January 30th

- Kranzler, Chapter 5: pp. 47-63.
- ✓ QUIZ 1

Thursday, February 1st

- Healey, Chapter 4: pp. 85-95.

Week 4 – *Dispersion & The Normal Curve*

Tuesday, February 6th

- Healey, Chapter 5: pp. 102-113.

Thursday, February 8th

- Healey, Chapter 5: pp. 114-118.
- Kranzler, Chapter 4: pp. 42-44 & Chapter 6: pp. 64-70.

Week 5 – *The Normal Curve & Sampling Distributions*

Tuesday, February 13th

Thursday, February 15th

- Healey, Chapter 6: pp. 124-138.
- ✓ ASSIGNMENT 2 DUE

Week 6 – *Sampling Distributions*

Tuesday, February 20th

- Healey, Chapter 6: pp. 138-147.

Thursday, February 22nd

- Kranzler, Chapter 10: pp. 121-135.
- ✓ QUIZ 2

Week 7 – One Sample *t*-tests

Tuesday, February 27th

- Healey, Chapter 7: pp. 152-160.
- Kranzler, Chapter 11: pp. 136-140.

Thursday, March 1st

- Healey, Chapter 7: pp. 161-176.
- ✓ ASSIGNMENT 3 DUE

Week 8 – Spring Break

Week 9 - Two-Sample *t*-tests

Tuesday, March 13th

- Healey, Chapter 8: pp. 182-197.
- Kranzler, Chapter 11: pp. 144-151.

Thursday, March 15th

- ✓ MIDTERM EXAM

Week 10 – ANOVA

Tuesday, March 20th

- Healey, Chapter 9: pp. 207-220.

Thursday, March 22nd

- Kranzler, Chapter 12: pp. 152-167.
- ✓ ASSIGNMENT 4 DUE

Week 11 – Chi-Square

Tuesday, March 27th

- Healey, Chapter 10: pp. 228-241.

Thursday, March 29th

- Kranzler, Chapter 13: pp. 168-174.
- ✓ QUIZ 3

Week 12 – Nominal Measures of Association

Tuesday, April 3rd

- Healey, Chapter 11: pp. 252-270.

Thursday, April 5th – No Class

Week 13 – Ordinal Measures of Association

Tuesday, April 10th

- Healey, Chapter 12: pp. 279-288.

Thursday, April 12th

- Healey, Chapter 12: pp. 288-292.
- ✓ ASSIGNMENT 5 DUE

Week 14 – Bivariate Regression & Pearson's r

Tuesday, April 17th

- Healey, Chapter 13: pp. 302-311.
- Kranzler, Chapter 8: pp. 93-106.

Thursday, April 19th

- Healey, Chapter 13: pp. 311-320.
- Kranzler, Chapter 9: pp. 107-117.
- ✓ QUIZ 4

Week 15 – Partial Correlation

Tuesday, April 24th

- Healey, Chapter 14: pp. 330-335.

Thursday, April 26th

Week 16 – Multiple Regression

Tuesday, May 1st

- Healey, Chapter 14: pp. 335-346.
- ✓ ASSIGNMENT 6 DUE

Thursday, May 3rd

Monday, May 14th @ 9am – Final Exam