

## SC200: STATISTICS

Spring 2009

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This course provides an introduction to the use of statistics for social science data analysis. Students are expected to develop an understanding of commonly used descriptive and inferential statistics and to become competent in the use of the Statistical Package for the Social Sciences (SPSS) software.

Course **REQUIREMENTS** include:

(a) Three 75-minute quizzes (50%). Four quizzes will be given, however only your three best scores will count. Make-up quizzes will **NOT** be given; if you miss one quiz, it will be the one that is not counted. A second missed quiz will count as a zero, unless **BOTH** absences are due to documented medical reasons, or upon my receipt of written excuses from a Dean's Office. Each quiz will cover about a 3-week period of the course. Hand calculators may be used. I will give you a one-week notice before each quiz, but **IT IS YOUR RESPONSIBILITY TO KNOW WHEN EACH QUIZ WILL BE GIVEN**. The quiz dates below are estimated dates; I will try to stick closely to the dates listed, but I cannot guarantee the dates until one week prior to a quiz.

b) A final exam (25%). The final will be cumulative, covering the entire course. The final exam is held on the day/time set by the Registrar: **MONDAY, MAY 11 AT 12:30 pm. THERE WILL BE NO EXCEPTIONS!** Do not ask for an alternative date. Do not buy airline tickets for an earlier departure. If you must get sick on that date, get very, very sick.

(c) Homework assignments (25%). There will be 7-9 homework assignments; these will require work with SPSS. These are due on the date assigned; late submissions will be penalized 10% for each calendar day late – **NO EXCEPTIONS!**

**VERY IMPORTANT:** Do keep a copy of all of your work. Do retain all of the work that is returned to you (homework and quizzes) until after you have received your final course grade.

**TEXTS:**

The following **REQUIRED** text is available at the BC Bookstore:

Joseph F. Healey: *THE ESSENTIALS OF STATISTICS* (Belmont, CA: Thomson Wadsworth, 2007).

**RECOMMENDED:** You might also want to download the "SPSS Brief Guide 16.0.pdf" from this web page:

<http://www.bc.edu/software/applications/research/SPSS16.html>

The 'Brief Guide' can be used as a reference manual later in the course.

The following is a **SUPPLEMENT** to the required readings and is on reserve in O'Neill:

Michael Malec: *ESSENTIAL STATISTICS FOR SOCIAL RESEARCH* (2nd ed.)

There are many other fine introductory texts. If one book doesn't "work" for you, do try another. A few more are on reserve in O'Neill.

**TENTATIVE COURSE OUTLINE** (Actual dates may vary)

**WEEK OF:                    TOPIC AND READINGS**

Jan. 13                                    Introduction  
READ: Healey, Chs. 1-2; Optional: Malec, Chs. 1-2

Jan. 20. 27, Feb. 3                                    Centrality and Dispersion  
READ: Healey, Ch. 3-4; Optional: Malec, Chs. 3-4.

**(QUIZ 1 on or about Thursday, Feb. 12)**

Feb. 10, 17, 24                                    Probability, Sampling, and Estimation; the normal curve; z-scores; hypothesis testing; the t-test  
READ: Healey, Chs. 5-8; Optional: Malec, Chs. 5-7

March 3                                    **SPRING BREAK**

March 10, 17:                                    Analysis of Variance  
READ: Healey, Ch. 9; Optional: Malec, Ch. 8

**(QUIZ 2 on or about Thursday, March 19)**

March 24, 31                                    Measures of Association (Nominal Level)  
READ: Healey, Chs. 10-11; Optional: Malec, Ch. 9

April 7, 14                                    Measures of Association (Ordinal Level)  
READ: Healey, Ch. 12; Optional: Malec, Ch. 10

**(QUIZ 3 on or about Thursday, April 16)**

**April 9: Holy Thursday, No Class**

April 21, 28                      Measures of Association (Interval Level)  
  READ: Healey, Chs. 13-14; Optional: Malec, Ch. 11-12

**(QUIZ 4 on or about Thursday, April 30)**

**THE FINAL EXAM WILL BE GIVEN ONLY ON  
THE DAY SET BY THE REGISTRAR  
MONDAY, MAY 11 AT 12:30 PM.  
THERE WILL BE NO MAKE-UP EXAM.**

**AT ALL TIMES, THE CLASSROOM IS A NO CELL PHONE ZONE.  
PLEASE TURN OFF ALL THINGS THAT RING, BEEP,  
OR OTHERWISE MIGHT INTRUDE.  
(This includes laptop computers, unless you have my specific permission.)**

#### **ACADEMIC INTEGRITY**

It is your obligation to be fully aware of the Boston College policies on academic honesty. ANY violation may subject the offender to severe penalty, including course failure. If you are not familiar with the Boston College policy on academic honesty, see the 2008-09 Boston College Bulletin, p, 36, or on the web at:

<http://www.bc.edu/offices/stserv/academic/resources/policy.html#integrity>