

Course: PSYC 2000 – Introduction to Psychological Statistics, 2018 Summer
Lecture time: Monday and Wednesday, 9:00 am to 12:00 pm
Class location: DE 303
Instructor: Se-Kang Kim, Ph.D.: sekim@fordham.edu
Office hours: 226G, Rose Hill Campus
Right after class or by an appointment

Lab TA: Zihuan Cao: zcaoz22@fordham.edu (tentative)
Lab time: DE 326: Thursday 9:00 am – 12:00 pm
Lab office hours: Right after lab

Course Description: This course is designed to introduce students to psychological statistics, including statistical theory, conceptual understanding, and technical application. Students will take a survey about “student life” and analyze the results over the course of the semester. Students will also complete five homework assignments based on content from the book and lecture. The statistical methods and concepts will be taught “by hand” as well as through SPSS, a popular computer program that facilitates statistical analysis.

Reading Material: Required:
Exploring Statistics: Tales of Distributions (12th Ed) by Chris Spats

Learning Objectives: At the end of this course of study, students will be able to...

- 1) Identify psychological research questions that can be analyzed using quantitative methods of analysis
- 2) Choose the best method of quantitative analysis for a given research problem
- 3) Understand and apply the various methods of descriptive and inferential statistics we discuss
- 4) Use SPSS for analysis and interpretation of quantitative data
- 5) Analyze a data set according to items 1-4 and write a written report of the results

Course Grading: 30% - Midterm Exam
40% - Final Exam
30% - Lab and Homework

Grading: A \geq 93%; A- 90-92%; B+ 87-89%; B 84-86%; B- 80-83%; C+ 77-79%; C 74-76%; C- 70-73%; D+ 67-69%; D 64-66%; D- 60-63%; F < 60%
(Decimals will be rounded to the nearest integer.)

Persons with Disabilities: Under the Americans with Disabilities Act and Section 504 of the Vocational Rehabilitation Act of 1973, all students, with or without disabilities, are entitled to equal access to the programs and activities of Fordham University. If you believe that you have a disabling condition that may interfere with your ability to participate in the activities, coursework, or assessment of the objective of this course, you may be entitled to accommodations. Please schedule an appointment to speak with someone at the Office of Disability Services (Rose Hill - O'Hare Hall, Lower Level, x0655 or at Lincoln Center – Room 207, x6282).

Academic Integrity: Students are responsible for reading and understanding Fordham University's policy on academic integrity. Information about the Fordham policy can be found here: http://www.fordham.edu/academics/handbooks_publicati/undergraduate_academ/undergraduate_ai_pol/index.asp

Attendance: Students are required to attend the course lectures and the course labs. Unexcused absences in excess of two will result in a lowered grade. In the event a student cannot attend a class or lab session, he or she should send an e-mail to the instructor (or the lab instructor for a lab absence) giving prior notification of the absence. Students are responsible for all work and content missed resulting from an absence.

Homework: Homework will be assigned each Monday and due the following Monday. Homework assignments will be due in your TA's mailbox by noon. Please show all your work in order to receive full credit.

Exams: Students will answer one mid-term exam and one cumulative final exam composed of questions that require application of the content. Students who are absent from the mid-term exam must provide formal documentation to qualify for the make-up mid-term exam. However, there is no make-up final exam, and the max. grade for those who miss the final exams will be no more than B.

Lecture and Lab Contents and Dates (contents and dates may change):

Introduction, Frequency Distributions and Graphs, Central Tendency	1-3	5/29 (Tue)
Variability & The Normal Distribution	4 & 7	5/30 (Wed)
Lab 1: Introduction to SPSS; Frequency Distribution, Graphs and Central Tendency	1-7	5/31 (Thur)

The Distribution of Sample Means (or Sampling Distribution) and Confidence Intervals	8	6/4 (Mon)
Hypothesis Testing and Effect Size: One Sample Designs	9	6/5 (Tue)
Hypothesis Testing, Effect Size, and Confidence Interval: Two Sample Designs	10	6/6 (Wed)
Lab 2: Variability; Z-Scores; Sampling Distribution; Hypothesis Testing	8 – 10	6/7 (Thur)
The <i>t</i> Test for Paired Samples & One-Way Analysis of Variance	10 & 11	6/11 (Mon)
Review	1 – 4	6/12 (Tue)
Review	7 – 11	6/13 (Wed)
Lab 3: Two-samples <i>t</i> test, paired samples <i>t</i> test & One-way ANOVA	10 – 11	6/14 (Thur)
Midterm Exam (30%)	1 – 4, 7 – 11	6/18 (Mon)
Two-Way ANOVA	13	6/19 (Tue)
Correlation and Regression	6	6/20 (Wed)
Lab 4: Correlation, Regression, and Chi-Square Test	13	6/21 (Thur)
Chi-Square Test	14	6/25 (Mon)
Final Exam Review	1-4, 6-11, 13-14	6/26 (Tue)
Final Exam Preparation Day	1-4, 6-11, 13-14	6/27 (Wed)
FINAL (40%)	1 – 11, 13, 14	6/28 (Thur)