

PS 586: TECHNIQUES OF POLITICAL ANALYSIS II

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Department of Political Science

The Ohio State University

Class Room: 311 Bolz Hall
Class Time: M W 9:30 – 11:18 am

My Office: 2084 Derby Hall
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This course is the first course in the Political Science Department's undergraduate data analysis sequence, and prepares students for further training in the tools of statistical analysis (PS 586 is the follow-on course). The course begins with a review of basic data analysis techniques and then moves on to laying the foundations for regression analysis.

Books

Required

[1] Levin, Jack, and James Allan Fox. 2006. *Elementary Statistics in Social Research*, 10th ed. Allyn & Bacon. ISBN: 0205459587. [LF]

[2] Kranzler, John H. 2007. *Statistics for the Terrified*, 4th ed. Prentice-Hall, NJ: Pearson. ISBN: 0131930117. [JK]

Recommended

[1] Gonick, Larry, and Woollcott Smith. 2005 [1993]. *The Cartoon Guide to Statistics*. New York: Harper Collins. ISBN: 0062731025. [GS]

[2] Huff, Darrell. 1982 [1954]. *How to Lie with Statistics*. New York, London: W.W. Norton & Co. ISBN: 0393310728. [DH]

Requirements and Grading

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|-----------------|-----|
| Homework #1: | 10% |
| Homework #2: | 10% |
| Homework #3: | 20% |
| Homework #4: | 20% |
| Research Paper: | 40% |

Policies and Procedures

Students with Disabilities

Students who feel they need an accommodation based on the impact of a disability should contact me privately to discuss their specific needs. Please contact the Office of Disability Services at 614-292-3307 in Room 150 Pomerene Hall to coordinate reasonable accommodations.

Attendance

Attendance is recommended, but not required.

Extensions and Make-ups

Extensions will NOT be granted. You will be informed of all assignments well in advance, so good planning and time management skills will benefit you. Assignments must be handed to **me** in class on the day they are due (or before that date if you want). Late assignments will suffer a penalty of half a letter grade per day it is late. Make-up examinations and quizzes are NOT permitted. Also, there will be NO opportunities for extra credit.

Academic Dishonesty

Academic integrity is essential to maintaining an environment that fosters excellence in teaching, research, and other educational and scholarly activities. Thus, The Ohio State University and the Committee on Academic Misconduct (COAM) expect that all students have read and understand the University's Code of Student Conduct, and that all students

will complete all academic and scholarly assignments with fairness and honesty. Students must recognize that failure to follow the rules and guidelines established in the University's Code of Student Conduct and this syllabus may constitute "Academic Misconduct."

The Ohio State University's Code of Student Conduct (Section 3335-23-04) defines academic misconduct as: "Any activity that tends to compromise the academic integrity of the University, or subvert the educational process." Examples of academic misconduct include (but are not limited to) plagiarism, collusion (unauthorized collaboration), copying the work of another student, and possession of unauthorized materials during an examination. Ignorance of the University's Code of Student Conduct is never considered an "excuse" for academic misconduct, so I recommend that you review the Code of Student Conduct and, specifically, the sections dealing with academic misconduct.

If I suspect that a student has committed academic misconduct in this course, I am obligated by University Rules to report my suspicions to the Committee on Academic Misconduct. If COAM determines that you have violated the University's Code of Student Conduct (i.e., committed academic misconduct), the sanctions for the misconduct could include a failing grade in this course and suspension or dismissal from the University. If you have any questions about the above policy or what constitutes academic misconduct in this course, please contact me.

Other sources of information on academic misconduct (integrity) to which you can refer include:

- * The Committee on Academic Misconduct web pages (<http://oaa.osu.edu/coam/home.html>)
- * Ten Suggestions for Preserving Academic Integrity (<http://oaa.osu.edu/coam/ten-suggestions.html>)
- * Eight Cardinal Rules of Academic Integrity (<http://www.northwestern.edu/uacc/8cards.html>)

Grading

Grading will be based upon (a) accuracy of factual information; (b) ability to synthesize the appropriate evidence, both theoretical and empirical, from all parts of the course not just rehashing the texts; (c) judgment in separating the important from the trivial, keeping on the subject, critically evaluating all assumptions [including your own and mine]; and (d) effective expression—organization, choice of words, basic grammar, etc. These are the essentials; imagination and true originality are based on them and not a substitute for them.

Work Ethic

"Without struggle, there can be no progress"—Frederick Douglass

Faculty Rules (Rule 3355-8-24 A1): "One credit hour shall be assigned for each **three hours** per week of the average student's time, including class hours, required to earn the average grade of 'C' in this class."

Be prepared to work in this course. The value of this class to you will be in direct proportion to the amount of time and effort that you devote to it. If there is a question in your mind as to whether you want to complete all the work in this course you should consider enrolling in another course without delay. I will give you my best effort, and I expect nothing less from you.

Inqilab Zindabad
Question Assumptions

What difference does it make to the dead, the orphans and the homeless, whether the mad destruction is wrought under the name of totalitarianism or the holy name of liberty or democracy?

-- Mahatma Gandhi, 1869-1948, "Non-violence in Peace and War."

ENTERTAINMENT SCHEDULE

1. Why Statistics?

Thursday, January 4: No Class, but read: LF: Appendix B & Ch 1; JK: Appendix A & Chs 1, 2; GS: Ch 1.

2. Organizing Data

Tuesday, January 9: LF: Appendix B & Ch 1; JK: Appendix A & Chs 1, 2; GS: Ch 1.

Thursday, January 11: LF: Ch 2; JK: Ch 4; GS: Ch 2.

3. Measures of Central Tendency

Tuesday, January 16: LF: Ch 2; JK: Ch 4; GS: Ch 2.

Thursday, January 18: LF: Ch 3; JK: Ch 5; GS: Ch 3.

4. Measures of Variability

Tuesday, January 23: No Class

Thursday, January 25: LF: Ch 4; JK: Ch 5; GS: Ch 4.

HW#1 DUE

5. Probability, the Normal Curve, Samples & Populations

Tuesday, January 30: LF: Ch 5; JK: Chs 6, 7; GS: Ch 5.

Thursday, February 01: LF: Ch 6; JK: Ch 10; GS: Ch 6.

6. Difference-of-Means Tests; ANOVA

Tuesday, February 06: LF: Ch 7; JK: Ch 11; GS: Ch 7.

HW#2 DUE

Thursday, February 08: LF: Chs 7, 8; JK: Chs 11, 12.

7. ANOVA (contd.)

Tuesday, February 13: LF: Ch 8; JK: Ch 12; GS: Ch 8.

Thursday, February 15: No Class

8. Nonparametric Tests of Significance, Correlation

Tuesday, February 20: LF: Ch 9; JK: Ch 13; GS: Ch 9.

HW#3 DUE

Thursday, February 22: LF: Ch 10; JK: Ch 10.

9. Nonparametric Measures of Correlation

Tuesday, February 27: LF: Chs 10, 12; JK: Ch 10; GS: Ch 10.

Thursday, March 01: No Class

10. Regression Analysis Preview

Tuesday, March 06: LF: Ch 11; JK: Ch 9; GS: Ch 11.

HW#4 DUE

Thursday, March 08: LF: Ch 13; JK: Ch 14; GS: Ch 12; DH: All.

**FINAL EXAM ON THURSDAY, MARCH 15TH AT 9: 30M
BEWARE THE IDES OF MARCH**