Political Science 7962: Seminar in Research Design and Quantitative Techniques

Instructor: Leonard &y
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Office Hours: TTH 10:30-12:00;
or by appointment.

Semester: Fall 2011 Time: Mondays 9:1012:00 Room: Stubbs 218 Email: Iray2@Isu.edu

Political Science 7962 is the introductory course in quantitative methodology for graduate students in political science. The goal of the course is to enable students to a set of basic statistical concepts and techniques and their practical application to research in political science. Topics covered include measurement, descriptive statistics, statistical inference, and tests of bivariate relationships. The course concludes with a overview of multivariate analysis.

This course is intended to train students to conduct their own research projects. Lectures and illadings we present the theory behind some of the tools used in quantitative research. However, like many skills, a facility with statistical methods is acquired through experience and practice. Workbook assignments throughout the semester will allow studentspiply concepts from the course materials to practical problems in Political Science. These exercises will also familiarize students with the SPSS statistical package. The required research project is a piece of original quantitative research whereaptpolyent their skills to a topic of their own choosing. These skills will be useful later, most immediately in POLI 7963.

Required Texts

The Chicago Guide to Writing About Numbers by Jane Miller University of Chicago ISBN 0: 0-226-526313

SPSS Compaon to Political Analysis Thortedition by Philip H. Pollock III. CQ Press; ISBN 608716872

Master Math: Probability

By Catherine A. Gorini ISBN 1435456564

Statstics for Social Data Analysisth 4edition David Knoke; George W. Bohrnstedt; Alisa Po**tte** Thompdon Wadsworth ISBN **8**75814484

Other readings will be placed on reserve in the library, or are available electronically from JSTOR. Assigned readings must be completed before the class period for which they are assigned to allow participation class discussion.

Recommended Equipment

A flash drive will be useful for saving work done in the computer lab.

Graded Requirements

Midterm Exam [weight = 20%] Final Exam [weight = 25%] Lab Assignments [total weight = 30%] Research Project [weight = 25%]

The Midterm Exam will be a take home exam. As such it is an open book **elkam**urse materials may be used during the exam. Collaboration with other students is, however, prohibited.

The Final Exam will be an iplassopen book exam.

The Lab Assignments will be taken from the SPSS workbook.

The Research Project is a piece of original quantitative research. Students who wish to combine this research project with a research paper for another class may do south the written permission of the instructor of both courses.

The nature of the course

This is a statistics course. But not just a statistics course. And certainly not a math course. It is a course the basic application of statistics to research terms in social science. As sublistcourse will cover a very wide range of types of material. We will deal with math of course, because an understanding of the internal logic of statistical techniques is important to their correct interpretation, and is a foundation for future statistical training. There will be formulas because the formulas present, in a concise form, the logic underlying statistical methods information is quite straightforward and obje

Schedule of Readings and Homework

Please complete lareadings before the day they are assign so that you are preparfed the class lecture. Homework problems will serve to test your understanding of concepts after they have been covered in class.

Aug 22: Introduction to the course, Vocabulary and Notation, SPSS vs STATA Read:

J. Miller

Oct 3 More Probability Gorini Ch 4, 5, 6

Oct 10 The Logic of