POLI 7961 Approaches to Studying Social Science
Fall 2010

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Course Description: To undertake a career in the social sciences, whether as an academic or as an applied practitioner, one must be socialized into the norms, standards and evaluative methods of the relevant discipline. This course is designed to train students to think like social science researchers. Regardless of your particular substantive field, when you finish this course you will be able to formulate, implement and evaluate a research project as a social scientist.

To accomplish these aims, we will first examine the ultimate questions of epistemology and the nature of the scientific method. This (somewhat normative) introduction is followed by a consideration of the nature of social science theory and explanation, and issues which relate to the use of empirical observations to test theories: concept formation, hypothesis construction, indicator development, and measurement. In the final half of the semester, we will examine alternative research designs, including experimental designs, quasi-experimental designs, and non-experimental research. Evaluation: Your course grade will be determined by the following formula:

Midterm Examination: 25%
Final Examination: 25%
Research Design Paper: 30%
Participation: 20%

Requirements:

A. Attendance and Participation: Attendance is mandatory, and active participation on the part of students injects a necessary vitality into class sessions. You will be evaluated on both the quality and quantity of your contributions to class discussion; lack of preparation will adversely affect this portion of your grade. You may miss one class with a University-approved excuse. A second absence, regardless of circumstance, or one absence without a University-approved excuse (which requires going through the Dean of Student's Office) will, in almost every circumstance, result in an automatic letter grade reduction for the course (at minimum).

B. Readings: Students are expected to come to class having completed the assigned readings. Note that exams cover all of the material assigned in the readings, regardless of whether or not a given topic or piece of information is explicitly covered in class discussion. The required texts are available at the campus bookstore and online:


In addition, there are many other required readings taken from academic journals and other various texts; an “(M)” following the citation denotes the reading’s availability on the Moodle site maintained for this class; an “(LSUL)” following a citation denotes its availability through the LSU Library system. During the first class we will talk about how to access articles through the LSU and Moodle systems.

The reading for this class is cumulative. If you start falling behind on the reading, you can get into a "heap o' trouble." So you are urged to be diligent in reading assignments on time. Furthermore, for most of you, one reading of assigned material will not be sufficient. Two or more readings, along with careful studying will be necessary. Moreover, as distasteful as it may sound, some memorization will be required. Perhaps with some topics, rote memorization of material is an indication of a lack of understanding. But when learning about research design, memorization of definitions is typically a necessary first step toward understanding.

One final note of caution is in order. You need to be very attentive throughout the course to the proper language for discussing social science research. It is not enough to read the material, say to yourself "this makes sense," and turn attention to something else. You need to know the material well enough to be able to discuss it and write about it using standard language for communication. So, when reading, be very careful to note the phrasing and sentence structure used by the authors. ***You should also bring each week’s readings to class to facilitate discussion of the materials.

**C. Examinations:** Two exams will be given. The midterm test will cover all material from the first half of the course, and the final examination will be cumulative, but with material from the second-half of the course assigned greater weight. Exams will be closed-book, closed-notes and will be comprised of short answer and essay questions. Failure to take an exam on time will result in a zero, except when dire circumstances prevail (documentation required). Make-up exams will be given at the professor's convenience and only in the following instances:

1. An accident or crime precluded attendance (police report indicating date, time, and details required);
2. There was a serious illness or death in the immediate family;
3. A serious physical illness or medical emergency prevented attendance (physician's letter – not a receipt – must state that physical condition warranted nonattendance).

**D. Research Design Paper:** The major assignment for this class will be a research design paper. The requirements for this project are outlined in detail later in this course packet.
Syllabus and Reading List

WEEK #1 (August 23): Introductions and Course Preview

♣ No Readings

WEEK #2 (August 30): Dunaway departs for APSA and APSA political communication pre-conference – NO CLASS MEETING

♣ (NOTE: Your assignment for this and the following week is to begin the readings due for the September 13th class meeting; 2-3 weeks of reading are assigned for that day.)

WEEK #3 (September 6): LABOR DAY HOLIDAY – NO CLASS MEETING

WEEK #4 (September 13): Logic and the Scientific Method; Epistemology and the Conduct of Scientific Research

♣ Frankfort-Nachmias and Nachmias, Chapter 1.


WEEK #5 (September 20): Problem Formulation and Theory Development

♣ Frankfort-Nachmias and Nachmias, Chapter 2.

♣ McGaw, Dickinson and George Watson, Chapters 8-9. (M)


WEEK #6 (September 27): Constructing and Testing Hypotheses: Inference and Causality

❖ Frankfort-Nachmias and Nachmias, Chapters 3 & 19.


WEEK #7 (October 4): Conceptualization and Measurement

❖ Frankfort-Nachmias and Nachmias, Chapters 7, 14 & 18.


WEEK #8 (October 11): Measurement: Examples from the Literature


WEEK #9 (October 18): MIDTERM EXAMINATION

WEEK #10 (October 25): Introduction to Research Design: True Experiments

❖ Frankfort-Nachmias and Nachmias, Chapters 4-5.


**WEEK #11 (November 1): Cross-Sectional, Time-Series, and Quasi-Experimental Designs**

Frankfort-Nachmiasz and Nachmiasz, Chapter 6.


**WEEK #12 (November 8): Data Collection I: Sampling, Selection Bias, Observational Methods, and Secondary Data Analysis**

Frankfort-Nachmiasz and Nachmiasz, Chapters 8, 9, & 13.


WEEK #13 (November 15): Data Collection II: Survey Research

- Frankfort-Nachmias and Nachmias, Chapters 10-11.

WEEK #14 (November 22): Qualitative Research, Case Studies, and Triangulating Inferential Power

- Frankfort-Nachmias and Nachmias, Chapters 9 & 12.

Recommended for this topic:


WEEK #15 (November 29): Extensions of Good Design: Replication and Meta-Analysis


WEEK #16 (December 6): Final Exam and/or Presentation of Research Designs
Research Design Paper

You are required to write a paper presenting a research project of your own choice. This paper is due Wednesday, December 1 by 4PM. A 1/3 letter grade penalty per weekday will be imposed on all late papers. This, a paper worth an A- that was turned in one day late would become a B-. etc. Extensions will only be given when DIRE circumstances prevail, and any such instance must be approved by the graduate advisor and dean.

Formatting

- 11-12 point font and 1 inch margins,
- Use a standard font (such as New Times Roman)
- LASER printed on one side only of 8.5” X 11” white paper
- Organized using section headings
- Employ gender-neutral/inclusive language
- Follow the APSA style of internal citations (copy of manual provided to you)
- Double spaced (except for abstract, hypotheses, references, and footnotes)

- Contain page numbers throughout.

Organization

Your paper should (roughly) follow the outline that appears below:

i. Title Page (no set style)
ii. Abstract (150-500 words, single spaced)
I. Introduction
   a. Research Question
   b. Literature Review
II. Theory and Hypotheses
   a. Analytical Framework/Theory
   b. Hypotheses
III. Data and Methods
   a. Measurement Operations
   b. Testing
IV. Conclusion
V. Works Cited (APSA Citation Style)

Substantive Components

1. Research Question: You must first formulate an *original* question of interest. Covering time-worn ground is not acceptable. Pay particular attention to why others ought to be interested in your research, and what new and innovative questions you are going to address that others have failed to analyze or have done so poorly. In other words,
sell the importance and uniqueness of your proposal/question to the reader. Ask yourself the following:

1. Has this already been done?
2. Is this an important question?
3. What would we better understand if we knew the answer to the question?
4. Would answering this question contribute to the cumulative body of scientific knowledge?
5. Will your proposed analysis actually answer the question you are posing?

2. Literature Review: Present a brief, analytical summary of the major schools of thought or approaches to the problem. Be certain to locate specific authors in the spectrum of thought. The purpose here is not to present an encyclopedic or exhaustive survey. The literature should instead be reviewed in a way that sets up what you want to do. Prepare this section with an eye toward identifying unaddressed questions, unresolved controversies, and problems with previous research that may have led to biased, invalid, or inconclusive findings. Thus, this should once again lead you toward justifying why your research proposal is of such importance and what you will do to address the deficiencies found in the extant literature.

3. Theory/Analytical Framework: Some research framework (a model, theory, or logically interconnected set of hypotheses) should be developed and presented. This need not be a full-scale exposition of judicial behavior or systemic causes of war, for example, but you must highlight the major tenets of the theory from which you will derive your hypotheses. This might be an original theory based on the work of others, one that has sufficient precedent in the literature, or one that has already been largely developed and tested and accepted, but which you are going to test in a new and useful manner. If you are going to be testing someone else's theory, you must be able to demonstrate why your tests are going to reveal something that had not been considered before, or how it will shed new light on an old subject. Note that if you are using a formal approach, you must explicitly state your assumptions and specify the deductions.

4. Hypotheses: From your theory, you must derive several hypotheses, or predictions, that will allow you to test some version of your theory. Each hypothesis should be indented in the text, single spaced, and formally starred and numbered, as in the following example:

H1: The faster the rate of change in the modernization process within any given society (X1), the higher the level of political instability within that society (Y).

5. Measurement Operations: In this section you should explain how you will go about operationalizing or measuring the concepts contained in your hypotheses. Your discussion should address the following questions:
How will you convert the hypotheses into concrete and readily testable terms and relationships?
What sorts of information will you use to measure the constructs in your hypotheses?
When and how will you acquire this information?

You may find it useful to prepare a table that specifies the measurement rules and data sources. (Any such table or figure should be inserted directly into the text of the paper.) Consider the following example.

Table 1: Operational Definitions, Descriptive Statistics, and Data Sources

<table>
<thead>
<tr>
<th>Variable</th>
<th>Operational Definition</th>
<th>Data Source</th>
<th>Descriptive Statistics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Focus of News Story</td>
<td>1=Strategy</td>
<td>Content analysis of each newspaper story:</td>
<td>Range 1.5</td>
</tr>
<tr>
<td></td>
<td>2=Issues</td>
<td>Kappa=.88</td>
<td>Mean 2</td>
</tr>
<tr>
<td></td>
<td>3=Candidate Traits</td>
<td></td>
<td>Std Dev 2</td>
</tr>
<tr>
<td></td>
<td>4=Adwatch</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>5=Horserace</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Income ($X_1$)</td>
<td>Median income in market area divided by 1000.</td>
<td>2004 Editor and Publisher International Yearbook 2000 U.S. Census</td>
<td>Range 20,63.9</td>
</tr>
<tr>
<td>% Young Audiences in Market ($X_2$)</td>
<td>Percent of market ages 20-44.</td>
<td>2004 Editor and Publisher International Yearbook 2000 U.S. Census</td>
<td>Range 28.7,51.5</td>
</tr>
<tr>
<td>% Female in Market ($X_3$)</td>
<td>% of Females in market.</td>
<td>2004 Editor and Publisher International Yearbook 2000 U.S. Census</td>
<td>Range 42.1,52.9</td>
</tr>
<tr>
<td>Circulation ($X_4$)</td>
<td>Circulation numbers</td>
<td>2004 Editor and Publisher International Yearbook</td>
<td>Range 7.87, 13.32</td>
</tr>
<tr>
<td>State ($X_5$)</td>
<td>Colorado=1 Washington=0</td>
<td>News Content</td>
<td>Range 6.1</td>
</tr>
<tr>
<td>Election Week ($X_6$)</td>
<td>Number of weeks into the Election</td>
<td>News Content</td>
<td>Range 1.9</td>
</tr>
</tbody>
</table>

6. Testing: You need to explain how you will go about conducting your analysis and testing your hypotheses. Note that it is understood that you are relatively unfamiliar with econometric specifications and other advance quantitative techniques. What is expected is that you mention the technique that you believe is appropriate (e.g. cross-sectional, linear regression, time-series, logit or probit, etc.), identify the unit(s) of analysis, justify case selection, and specify the time-range of the study. Consultation with the professor is highly recommended before writing this section.
7. **Conclusion:** In the conclusion you need to sell the importance of your anticipated findings. Some questions to ponder:

What do you expect to find?
What will your potential findings mean for political science and the real world?
Will you contribute toward theory building?
Will you discover some knowledge that is previously unknown and/or that may conceivably be put to use by policy makers or political practitioners?
Why are we better off for having learned what you expect to find?

8. **Works Cited:** This listing should appear at the very end of your paper. Note that all sources cited in the text of your paper must appear in this section. Do not include any source that is not explicitly cited in your paper. Each entry should be single-spaced and indented after the first line, with one space between entries. Be sure to follow the APSA Style Guide.

**Citation and Academic Honesty**

LSU's policy on plagiarism is the following: "Plagiarism is defined to include any use of another's work and submitting that work as one's own. This means not only copying passages of writing or direct quotations but also paraphrasing or using structure or ideas without citation." Most of the work you will do for this class will require you to deal closely with books and articles assigned for this class; some projects may require you to do additional research. In either case, the rule of thumb is this: If you use material from a source (either one assigned from this class or something you’ve retrieved through outside research), you must cite it. Please review the University’s excellent guidelines on plagiarism and academic integrity at http://www.lsu.edu/judicialaffairs/ and http://www.lsu.edu/judicialaffairs/Plagiarism.htm.

**Please note:** If I even **suspect** plagiarism I am required by university policy to turn in the assignment to the dean of the graduate school. This means it is beyond my control what happens from that point forward. So – PLEASE ask any questions if you are uncertain about what constitutes plagiarism (it often happens unintentionally). Please make EVERY effort to avoid putting me in the terrible position of turning your work in to the dean.

**ADA Statement**

The Americans with Disabilities Act requires that reasonable accommodations be provided for students with physical, cognitive, systemic, learning and psychiatric disabilities. Please contact me at the beginning of the quarter to discuss any such accommodations for this course. In order to have any accommodations met, you must be registered with the LSU Office of Disabilities Services. More information on registering and accommodation is available on the ODS website: http://appl003.lsu.edu/slas/ods.nsf/index