7 K H

POLS 2000 Methods in Political Science

Spring 2023±Monday 4:157:00, Tuesday and Thursday2:452:00 Professor Matthew Nanes matthew.nanes@slu.edu
Office Hours: Monday 3:004:00

Course Description and Introduction

How do voters hold government accountable? Do democratic governments generate better economic growth? What can be done to reduce police violence?

These questions, like countless others about the world we live in, are best answered with data. This course presents the fundamental tools that social science researchers use to ask and answer ³ HPSLULFDO´TXHVWLRQV PHDQLQJYoTuXwHI Meanth to Rusevithe XKLFK UHT scientific method to create evidenate out the way political actors operate and interact with one another. Over the course of the semester, we will devalous toolkit that you can use ask and answer question that are important to you

This course will cover qualitative and quantitative methods of the topics we covered theory building, accuracy and precision, hypothesis testing, and field researchevidence division between the two methods ou will learn to doevidence based researchevidence comes in many forms

The class is geared towdsrundergraduate students. You not be any background in statistics or programming. In fact, the only math you will have to do is basic arithmetic, and you are welcome to use a calculator.

For the portions of the class which involve stat WLFV ZHZLOO XVH 6 WDWD software; Stata is one of several programs that IsR RG H @Rh&taks at hand. I will use examples from Stata in class, and you are expected to turn in assignments completed in Stata.

POLS 2000 has dish lecture (3credithours) and lab (4credit hou) components You must register for and participate in both components with the same instructor.

CourseObjectives

By the end of this course, you will

- x Apply the scientific methodo questions about politis
- x Identify the limitations of statistics presented in the madiacommunicate those limitations effectively to a nonspecialist audience
- x Evaluate the claims, strengths, and weaknesses of evidence in contemporary social science research
- x Interpret and evaluate evidence presented in political science research

The lab portion of the class has additional objectives:

- x Apply appropriate methodological toolsdescribe empirical evidence
- x Use statistical methods appropriately to draw inferenbest politics

A Note on Learning Methods

Empirical (i.e. evidence ased) analysis involves a lot of judgement calls. There is very rarely a single, clear FXW ³ ULJKW ´ZD\ WR WHVW D K\SRWKHVLV 7KH PHV\ This can be frustrating because, as a student, you want someone Role Yell ZKHQ altra edgrees RIZKDW ¶V ³ ULJKW ´([SHFW WR KDYH WR MXVWLI\ WKH GHF convincingly, then you have probably arrived at the right answer.

Revised1/8/2023

- x All students are required to bring a laptop to each class. If you do not have a laptop you wish to use, the einert Centecan provide one for you to use during the semester. Please talk to Professor Nanes if you would like to discuss this option.
- x You will need to install Stata on the laptop you plan to use in this class. A Stata license will be provided to you free of charge at the beginning of the semester. We will download and install Stata together during class. You do not need to do anything before the semester starts.

Course Outline

*Unless otherwise noted, all homework assignments should be turned in via.Canvas

Date	Topic	Before Class	In Class	Homework
Tuesday	Intro to		Syllabus intro / intro to this class	
1/17/23	science			
			The scientific method	
Thursday	Intro to	BDM and Fowler Ch.1		
1/19/23	science	(ai1 0 0 1 203.42 4183		

Tuesday Case 1/31/23 Selection

BDM and Fowler ch.4 (all pages)

Pape 2021, "Analysis oi1 203.42is Av 203.4

Thursday		BDM and Fowler	Lecture andractice:	
2/16/23	and sampling	p.94102, 102-109	Distributions; The Normal	
			Distribution; Central Limit	
			Theorem	
Monday	Distributions		Lecture: Sampling and	"HW5: Sampling and Distributions"
2//23	and sampling		Uncertainty	 May work with classmates
			•	- Begin during lab
			Activity: "Dice Activity"	Due: Thursday 8:00 am
Tuesday	Distributions		Practice: Uncertainty from	3+: (YDOXDWLQJ &RQJUHVV
2/21/23	and sampling		sampling; bias and noise; margir	Due: Monday 8:00 am
			of error and confidence intervals	
Thursday	Field	Fearon, James and	Lecture and discussion:	
2/23/23	Research	David Laitin,	Interviews, surveys, and other	
		³ ,QWHJUDWL		
		Qualitative and		
		Quantitative		
		OHWKRGV′,		
		Handbook of Political		
		Methodology.		
Monday	Bivariate	Acock p.123129,	Lecture and practice: chai	³ + : Hypothesis Testing"
2/27/23	Relationships	•	squared,-test, correlation	Due: Thursday 8:00 am
Tuesday	Bivariate	Acock p.156174	Practice with chai squaredtest,	· '
2/28/23	Relationships	•	and correlation	

Lecture Omitted variable bias

Monday 3/27/23	Regression: Applying multivariate regression	Acock p.275281 https://stats.oarc.ucla.du/stata/modules/graph8/genopts/	(running modelsinterpreting output) Activity: Acock p.219220	
Tuesday 3/28/23	Regression: Making regression tables	BDM and Fowler p.211-213 (reading tables) https://stats.oarc.ucla.du/stata/modules/labeing-data/ https://www.princeton.edu/~otores/Outreg2.pdf	exercises 1, 2, 5, 7 i(n cluster)s Coding lab: Making regression tables	"HW10: Multivariate Regression" Due: Monday 8:00 am
Thursday 3/30/23	Regression: Categorical predictors Producing and interpreting results	Ackock p.299304, 308309 BDM and Fowler p.306315 (visualizing results)	Group work: Practicenterpreting results; understanding confidence intervals	
Monday 4/3/23	Regression: Application to own research		LA: Clusters work on translating their research degn into a regression framework	
Tuesday 4/4/23	Intro to science	BDM and Fowler p.113134	Accumulation of evidence,-p hacking, publication bias	

Anna Kratky is the Title IX Coordinator at Saint Louis University (DuBourg Hall, room 36; arratkeyl@slu.edu; 31-4977-3886). If you wish to speak with a confidential source, you may contact the counselors at the University Counseling Center 27.37 \$ / . RU PDNH DQ DQRQ\PRXV UHSRUW WKL Integrity Hotline by calling 4877-525-5669 or online at http://www.lighthouseVHUYLFHV FRP VOX 7R YLHZ 6/8 ¶ V SROLFLHV DQG II following web addresses: https://www.slu.edu/about/safety/sæxsalultresources/index.php.

Temporary / Supplemental Statement on InPerson Class Attendance and Participation

The health and wellEHLQJRI6/8¶VVWXGHQWVVWDIIDQGIDFXOW\DUHFULWLFDOIF, RhooffilldwingVDVLVWUniversity policy statements on-irreson class attendance are igneed to preserve and advance the collective health and wire ignored of our institutional constituencies and to create the conditions in which all students have the opportunity to learn and successfully cirroplets be

- 1. Students who exhibit anyotential COVID19 symptom (those that cannot be attributed to some other medical condition the students are known to have, such as allegies, asthma, etc.) shall absent themselves from apprison class attendance or pierson participation in any class attendan
- 2. Students (whether exhibiting any of potential COVID symptoms or not, and regardless of how they feel) who are under either an isolation or quarantine directive issued by a qualified health official must absent themselves from course actives per the stipulations of the isolation or quarantine directive.
- 3. Students are responsible for notifying their instructor of an absence as far in advance as possible; when advance is ortificationsible, students are responsible for notifying eath instructor as soon after the absence as possible. Consistent with the instructor to complete any required work. In situation is underest must be absent for an extended period of time due to COVID isolation or quarantine, they also must work with the ruindsor to determine the best way to maintain progress in the course as they are able based on their health situation.
- 4. Consistent with the Iniversity Attendace Policy VWXGHQWV PD\ EH DVNHG WR SURYLGH PHGLFDO GRFXPHQWDWLF ability to attend and/or participate in class for an extended period of time.
- 5. As a temporary amendment tretcurrent University Attendance Policyall absences due to illness or an isolation/quarantine directive issued by inequalif health official, or due to an adverse reaction to a COVIDYDFFLQH VKDOO EH FRQVLGHUHG 3 \$ X W K R U L] HG ODEVHQFHV