

QUANTITATIVE RESEARCH METHODS IN POLITICAL SCIENCE

Tuesday 9:35AM to 12:25PM
Thursday 9:35AM to 12:25PM
Please confirm location at Carleton Central

Instructor: Andrea Wagner
Office: A 637 Loeb Building
Office Hours: Tuesday and Thursday
From 8:30 AM to 9:30 AM
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Course Objectives

This course, directed at second year undergraduate students, offers an introduction to applied statistics using one of the most important statistical packages for the social sciences (SPSS). The main objectives of the course are: (1) to help students gain a thorough understanding of applied statistics; (2) to provide a toolkit that allows students to conduct their own research (3) to train students to explore and handle data in a systematic manner; and (4) to analyze these results with the help of SPSS.

Lectures will address the following statistical techniques:

- ✓ Descriptive Statistics
- ✓ Inferential Statistics
- ✓ Measures of Association
- ✓ Regression Analysis

By the end of the course students should be able to:

- ✓ Describe and apply principles of research design and methodology, including systematic data gathering;
- ✓ To apply all the statistical techniques discussed in class for the analysis of quantitative data

- ✓ To interpret, discuss and present statistical information
- ✓ To understand and master many parts of the SPSS statistical software
- ✓ To carry out their own research and apply the necessary quantitative methods to address the given research question

Course Format

PSCI 2702A will consist of a three hour lecture where the students will be introduced to SPSS. (Twice a week/ Tuesday and Thursday) This is not a math course- you do not require any advanced mathematics training to do well. All math /statistics related concepts and formulas will be explained carefully by the instructor. As a result of the intensity of the course (6 hours/ week) and the extensive material we will cover, students are also strongly encouraged to keep up with the readings and complete all the SPSS assignments in advance. In addition to this, the course is designed to be interactive and the instructor *strongly* encourages *active student participation*.

Academic Resources

If A Student Needs Assistance With	Refer To...	Contact Information
<ul style="list-style-type: none"> • understanding academic rules and regulations • choosing or changing their major • finding a tutor • academic planning guided by an Academic Advisor • polishing study skills 	Student Academic Success Centre (SASC)	302 Tory Building 520-7850 www.carleton.ca/sasc
<ul style="list-style-type: none"> • a learning disability 	Paul Menton Centre	500 University Centre 520-6608; www.carleton.ca/pmc
<ul style="list-style-type: none"> • developing writing skills 	Writing Tutorial Service	229 Paterson Hall 520-6632; www.carleton.ca/wts
<ul style="list-style-type: none"> • assistance with math 	Math Tutorial	www.math.carleton.ca/student
<ul style="list-style-type: none"> • polishing English conversation skills, or proof 	International student Advisory	501 University Centre 520-6600; www.carleton.ca/isa

reading (International student only)		
• research assistance	Staff at MacOdrum Library reference desk	520-2735 www.library.carleton.ca
• statistics/ SPSS assistance (by appointment only)	Data Centre, MacOdrum Library	Statistical Consultant 520-2600x 2619

Course Text

- Joseph F Healey and Steven G. Prus (2010): “*Statistics- A Tool for Social Research*”, First Canadian Edition. Toronto: Nelson Education

Evaluation

Assessment and evaluation of student learning will be done using five written assignments (four Assignments and one Essay) and one final written exam that require students to apply the concepts and statistical techniques taught in the course. The following table provides a breakdown of the weighting and important dates.

Item	Due Dates	Percent
Assignments (4 @6 % each)	Assignment 1 -July 18th Assignment 2 -July 30th Assignment 3 -August 6th Assignment 4 -August 13th	24%
Essay Assignment	August 15th	26%
Final Exam	Final Exam Period	50%

All assignments and the final exam are mandatory for students to receive credit for the course. Assignments are based on SPSS exercises and interpretation of data generated through the data analysis program. The essay assignment will take the form of a 15 to 20 page essay which requires students to incorporate statistical analysis to address adequately an individually chosen research question. Detailed instructions and grading guidelines for assignments will be distributed via CUlearn. Every effort will be made to grade and return

assignments within 1 week and the essay within 2 weeks of their due dates. Grades will be posted on CUlearn and assignments will be returned during lectures. The final exam will be cumulative and will include multiple choice, short answer and essay questions.

Policy on Late Essay Assignments

Assignments are due at *the beginning* of regularly scheduled classes. Assignments can also be emailed to the instructor. Assignments received after the end of class on the due date will be considered late. Assignments placed in the department's Drop Box on the due date will also be considered late. If you need to use the drop box, you must submit your assignment at least one day before the due date in order to avoid the late penalty. Late penalties shall be assessed on a daily basis, including weekends. Extensions will not be granted except on medical grounds, with appropriate documentation.

Policy on Collaborative Work

Discussing assignments with your colleagues is encouraged, but students are not permitted to submit the same work for evaluation. Therefore, those who copy and those who share their work will both be considered guilty of academic dishonesty. Any written assignments deemed by the Instructor to be too similar (similar mistakes, same approach etc) will be given a grade of zero. Therefore, to prevent this, please:

- **DO NOT** collaborate with other students when writing your assignments;
- **DO NOT** share your written work with anyone else;
- **DO NOT** ask someone else to print your assignment;
- **DO NOT** ask someone else to hand in your assignment.

If you have any questions regarding collaboration or plagiarism in relation to assignments and exams please see the Instructor.

Lecture Topics and Schedule

The course is organized to enable flexibility in covering the course material. The proposed schedule is to serve as a tentative guide only.

WEEK	TOPIC	CHAPTER
July 4	Introduction Descriptive Statistics <ul style="list-style-type: none"> ▪ Measures of Central Tendency ▪ Measures of Dispersion 	<i>Healey and Prus</i> Chapter 1&2 Chapter 3 Chapter 4
July 9	Descriptive Statistics cnt. <ul style="list-style-type: none"> ▪ The Normal Curve 	Chapter 5
July 11	Inferential Statistics <ul style="list-style-type: none"> ▪ Sampling and the Sampling distribution ▪ Estimation Procedures 	Chapter 6 Chapter 7
July 16	Hypothesis Testing I <ul style="list-style-type: none"> ▪ The One-Sample Case 	Chapter 8
July 18	Hypothesis Testing II <ul style="list-style-type: none"> ▪ The Two-Sample Case 	Chapter 9
July 23	Hypothesis Testing III <ul style="list-style-type: none"> ▪ The Analysis of Variance (ANOVA) 	Chapter 10
July 25	Hypothesis Testing IV <ul style="list-style-type: none"> ▪ Chi Square 	Chapter 11

July 30	Bivariate Measures of Association <ul style="list-style-type: none"> ▪ Introduction ▪ Variables measured at the nominal and ordinal level 	Chapter 12 Chapter 13, 14
August 1	Regression Analysis <ul style="list-style-type: none"> ▪ Simple Regression 	Chapter 17
August 6	Regression Analysis <ul style="list-style-type: none"> ▪ Multiple Regression 	Chapter 18
August 8	Revision for the Final Exam I	
August 13	Revision for the Final Exam II	
August 15	Revision for the Final Exam III	

Academic Accommodations

The Paul Menton Centre for Students with Disabilities (PMC) provides services to students with Learning Disabilities (LD), psychiatric/mental health disabilities, Attention Deficit Hyperactivity Disorder (ADHD), Autism Spectrum Disorders (ASD), chronic medical conditions, and impairments in mobility, hearing, and vision. If you have a disability requiring academic accommodations in this course, please contact PMC at 613-520-6608 or pmc@carleton.ca for a formal evaluation. If you are already registered with the PMC, contact your PMC coordinator to send me your **Letter of Accommodation** at the beginning of the term, and no later than two weeks before the first in-class scheduled test or exam requiring accommodation (*if applicable*). After requesting accommodation from PMC, meet with me to ensure accommodation arrangements are made. Please consult the PMC website for the deadline to request accommodations for the formally-scheduled exam (*if applicable*).

For Religious Observance: Students requesting accommodation for religious observances should apply in writing to their instructor for alternate dates and/or means of satisfying academic requirements. Such

requests should be made during the first two weeks of class, or as soon as possible after the need for accommodation is known to exist, but no later than two weeks before the compulsory academic event. Accommodation is to be worked out directly and on an individual basis between the student and the instructor(s) involved. Instructors will make accommodations in a way that avoids academic disadvantage to the student. Instructors and students may contact an Equity Services Advisor for assistance (www.carleton.ca/equity).

For Pregnancy: Pregnant students requiring academic accommodations are encouraged to contact an Equity Advisor in Equity Services to complete a *letter of accommodation*. Then, make an appointment to discuss your needs with the instructor at least two weeks prior to the first academic event in which it is anticipated the accommodation will be required.

Plagiarism: The University Senate defines plagiarism as “presenting, whether intentional or not, the ideas, expression of ideas or work of others as one’s own.” This can include:

- reproducing or paraphrasing portions of someone else’s published or unpublished material, regardless of the source, and presenting these as one’s own without proper citation or reference to the original source;
- submitting a take-home examination, essay, laboratory report or other assignment written, in whole or in part, by someone else;
- using ideas or direct, verbatim quotations, or paraphrased material, concepts, or ideas without appropriate acknowledgment in any academic assignment;
- using another’s data or research findings;
- failing to acknowledge sources through the use of proper citations when using another’s works and/or failing to use quotation marks;
- handing in “substantially the same piece of work for academic credit more than once without prior written permission of the course instructor in which the submission occurs.

Plagiarism is a serious offence which cannot be resolved directly with the course’s instructor. The Associate Deans of the Faculty conduct a rigorous investigation, including an interview with the student, when an instructor suspects a piece of work has been plagiarized. Penalties are not trivial. They include a mark of zero for the plagiarized work or a final grade of “F” for the course.

Oral Examination: At the discretion of the instructor, students may be required to pass a brief oral examination on research papers and essays.

Submission and Return of Term Work: Papers must be handed directly to the instructor and will not be date-stamped in the departmental office. Late assignments may be submitted to the drop box in the corridor outside B640 Loeb. Assignments will be retrieved every business day at **4 p.m.**, stamped with that day's date, and then distributed to the instructor. For essays not returned in class please attach a **stamped, self-addressed envelope** if you wish to have your assignment returned by mail. Please note that assignments sent via fax or email will not be accepted. Final exams are intended solely for the purpose of evaluation and will not be returned.

Grading: Assignments and exams will be graded with a percentage grade. To convert this to a letter grade or to the university 12-point system, please refer to the following table.

Percentage	Letter grade	12-point scale	Percentage	Letter grade	12-point scale
90-100	A+	12	67-69	C+	6
85-89	A	11	63-66	C	5
80-84	A-	10	60-62	C-	4
77-79	B+	9	57-59	D+	3
73-76	B	8	53-56	D	2
70-72	B-	7	50-52	D-	1

Grades: Final grades are derived from the completion of course assignments. Failure to write the final exam will result in the grade ABS. Deferred final exams are available **ONLY** if the student is in good standing in the course.

Approval of final grades: Standing in a course is determined by the course instructor subject to the approval of the Faculty Dean. This means that grades submitted by an instructor may be subject to revision. No grades are final until they have been approved by the Dean.

Connect Email Accounts: All email communication to students from the Department of Political Science will be via Connect. Important course and University information is also distributed via the Connect email system. It is the student's responsibility to monitor their Connect account.

Carleton Political Science Society: The Carleton Political Science Society (CPSS) has made its mission to provide a social environment for politically inclined students and faculty. Holding social events, debates, and panel discussions, CPSS aims to involve all political science students in the after-hours academic life at Carleton University. Our mandate is to arrange social and academic activities in order to instill a sense of belonging within the Department and the larger University community. Members can benefit through numerous opportunities which will complement both academic and social life at Carleton University. To find out more, please email carletonpss@gmail.com, visit our website at poliscisociety.com, or come to our office in Loeb D688.

Official Course Outline: The course outline posted to the Political Science website is the official course outline.