Instructor: Professor Steven Prus
Office: D786 Loeb
Office Hours: Friday 1:30pm-2:30pm, or by appointment
Email: steven_prus@carleton.ca
Telephone: 520-2600, ext. 3760

Course meets: Friday 2:35pm-5:25pm in Loeb Building A715

Pre-requisites & Precluded Courses: SOCI 2000 and third-year standing

Course Description and Objectives:
An introduction to quantitative research methods in sociology, the course focuses on descriptive statistics—a branch of statistics concerned with summarizing the distribution of a single variable or measuring the relationship between two or more variables. The two-hour lecture (per class) is designed to provide an essential understanding of these statistical methods. The lecture is followed by a one-hour computer (SPSS/STATA) lab, as needed. The course is designed to prepare you for more advanced courses in statistics.

Textbook:

Course Requirements & Methods of Evaluation:

<table>
<thead>
<tr>
<th>Assessment</th>
<th>Weight</th>
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<tbody>
<tr>
<td>Midterm Exam (in-class on February 8 at 2:35-4:05pm)</td>
<td>30%</td>
</tr>
<tr>
<td>Final Exam (in-class on March 22 at 2:35-4:05pm)</td>
<td>30%</td>
</tr>
<tr>
<td>SPSS/Computer Assignment (due on April 9)</td>
<td>20%</td>
</tr>
<tr>
<td>Class Participation/Class Attendance</td>
<td>20%</td>
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</table>

* There will be no opportunity to write a missed exam. If the midterm exam is missed, the final exam will be weighted accordingly (60%). Medical documentation is required if an exam or class attendance is missed. Late assignments will be penalized at a rate of 10% of the mark per day, barring medical reasons (with documentation). To be fair to everyone in the class, these policies are strictly enforced.
In accordance with the Carleton University Undergraduate Calendar Regulations, the letter grades assigned in this course will have the following percentage equivalents:

- **A+** = 90-100
- **A** = 85-89
- **A -** = 80-84
- **B+** = 77-79
- **B** = 73-76
- **B -** = 70-72
- **C+** = 67-69
- **C** = 63-66
- **C -** = 60-62
- **D+** = 57-59
- **D** = 53-56
- **D -** = 50-52
- **F** = Below 50
- **WDN** = Withdrawn from the course
- **DEF** = Deferred (See above)

**Academic Regulations, Accommodations, Plagiarism, Etc.**

University rules regarding registration, withdrawal, appealing marks, and most anything else you might need to know can be found on the university’s website, here: www.calendar.carleton.ca/undergrad/regulations/academicregulationsoftheuniversity/

You may need special arrangements to meet your academic obligations during the term. For an accommodation request, the processes are as follows:

**Academic Accommodations for Students with Disabilities**
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 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).

*The deadline for contacting the Paul Menton Centre regarding accommodation for final exams for the Winter 2019 (April) exam period is **March 15, 2019**.*

**For Religious Obligations:**
Please contact your instructor with any requests for academic accommodation during the first two weeks of class, or as soon as possible after the need for accommodation is known to exist. For more details, visit the Equity Services website: www.carleton.ca/equity/wp-content/uploads/Student-Guide-to-Academic-Accommodation.pdf

**For Pregnancy:**
Please contact your instructor with any requests for academic accommodation during the first two weeks of class, or as soon as possible after the need for accommodation is known to exist. For more details, visit the Equity Services website: www.carleton.ca/equity/wp-content/uploads/Student-Guide-to-Academic-Accommodation.pdf

**For Survivors of Sexual Violence**
As a community, Carleton University is committed to maintaining a positive learning, working and living environment where sexual violence will not be tolerated, and where
survivors are supported through academic accommodations as per Carleton's Sexual Violence Policy. For more information about the services available at the university and to obtain information about sexual violence and/or support, visit: www.carleton.ca/sexual-violence-support

**Accommodation for Student Activities**
Carleton University recognizes the substantial benefits, both to the individual student and for the university, that result from a student participating in activities beyond the classroom experience. Reasonable accommodation must be provided to students who compete or perform at the national or international level. Please contact your instructor with any requests for academic accommodation during the first two weeks of class, or as soon as possible after the need for accommodation is known to exist. https://carleton.ca/senate/wp-content/uploads/Accommodation-for-Student-Activities-1.pdf

**Plagiarism**
Plagiarism is the passing off of someone else's work as your own and is a serious academic offence. For the details of what constitutes plagiarism, the potential penalties and the procedures refer to the section on Instructional Offences in the Undergraduate Calendar. Students are expected to familiarize themselves with and follow the Carleton University Student Academic Integrity Policy (See https://carleton.ca/registrar/academic-integrity/). The Policy is strictly enforced and is binding on all students. Academic dishonesty in any form will not be tolerated. Students who infringe the Policy may be subject to one of several penalties.

**What are the Penalties for Plagiarism?**
A student found to have plagiarized an assignment may be subject to one of several penalties including but not limited to: a grade of zero, a failure or a reduced grade for the piece of academic work; reduction of final grade in the course; completion of a remediation process; resubmission of academic work; withdrawal from course(s); suspension from a program of study; a letter of reprimand.

**What are the Procedures?**
All allegations of plagiarism are reported to the faculty of Dean of FASS and Management. Documentation is prepared by instructors and departmental chairs. The Dean writes to the student and the University Ombudsperson about the alleged plagiarism. The Dean reviews the allegation. If it is not resolved at this level then it is referred to a tribunal appointed by the Senate.

**Assistance for Students:**
Academic and Career Development Services: http://carleton.ca/sacds/
Writing Services: http://www.carleton.ca/csas/writing-services/
Peer Assisted Study Sessions (PASS): https://carleton.ca/csas/group-support/pass/
Important Information:

- Student or professor materials created for this course (including presentations and posted notes, labs, case studies, assignments and exams) remain the intellectual property of the author(s). They are intended for personal use and may not be reproduced or redistributed without prior written consent of the author(s).
- Students must always retain a hard copy of all work that is submitted.
- Standing in a course is determined by the course instructor subject to the approval of the Faculty Dean. This means that grades submitted by the instructor may be subject to revision. No grades are final until they have been approved by the Dean.
- Carleton University is committed to protecting the privacy of those who study or work here (currently and formerly). To that end, Carleton’s Privacy Office seeks to encourage the implementation of the privacy provisions of Ontario’s Freedom of Information and Protection of Privacy Act (FIPPA) within the university.
- In accordance with FIPPA, please ensure all communication with staff/faculty is via your Carleton email account. To get your Carleton Email you will need to activate your MyCarletonOne account through Carleton Central. Once you have activated your MyCarletonOne account, log into the MyCarleton Portal.
- Please note that you will be able to link your MyCarletonOne account to other non-MyCarletonOne accounts and receive emails from us. However, for us to respond to your emails, we need to see your full name, CU ID, and the email must be written from your valid MyCarletonOne address. Therefore, it would be easier to respond to your inquiries if you would send all email from your connect account. If you do not have or have yet to activate this account, you may wish to do so by visiting https://students.carleton.ca/

Important Dates

**Winter 2019**

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
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<tbody>
<tr>
<td>January 7</td>
<td>Winter term classes begin.</td>
</tr>
<tr>
<td>January 15</td>
<td>Deferred final assignments and/or take-home examinations for Fall Term 0.5 credit courses are due.</td>
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<tr>
<td>January 18</td>
<td>Last day for registration and course changes in Winter term classes.</td>
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<tr>
<td>January 18-20, 25-27</td>
<td>Fall term deferred examinations will be written.</td>
</tr>
<tr>
<td>January 31</td>
<td>Last day to withdraw from Winter term and Winter portion of Fall/Winter courses with full fee adjustment. Withdrawals after this date will result in a permanent notation of WDN to appear on the official transcript.</td>
</tr>
<tr>
<td>February 15</td>
<td>April exam schedule available online.</td>
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<tr>
<td>February 18-22</td>
<td>Winter Break, classes suspended.</td>
</tr>
<tr>
<td>March 26</td>
<td>Last day for summative tests or final examinations, or formative tests or examinations totaling more than 15% of the final grade in Winter term courses before the official examination period.</td>
</tr>
<tr>
<td>April 9</td>
<td>Winter term ends. Last day of Fall/Winter and Winter term classes. Last day for academic withdrawal from Fall/Winter and Winter term courses. Last</td>
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</table>
day for take-home examinations to be assigned (except those that conform to the Academic Regulations of the University in the Undergraduate Calendar/General Regulations of the Graduate Calendar). Last day for handing in term work and the last day that can be specified by a course instructor as a due date for term work for Fall/Winter and Winter term courses.

<table>
<thead>
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<tr>
<td>April 12-27</td>
<td>Final Examinations for Winter and Fall/Winter courses. Exams are normally held all seven days of the week.</td>
</tr>
<tr>
<td>April 19-21</td>
<td>Statutory Holiday, University closed</td>
</tr>
<tr>
<td>April 27</td>
<td>All take-home examinations are due except those that conform to the academic Regulations of the University in the Undergraduate Calendar/General Regulations of the Graduate Calendar.</td>
</tr>
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## Course Overview

<table>
<thead>
<tr>
<th>Date</th>
<th><strong>Topics and Required Readings</strong></th>
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</table>
| Jan 11     | **Main Topics:** Why Study Statistics; Role of Statistics; Descriptive and Inferential Statistics; Discrete and Continuous Variables; Level of Measurement.  
Readings: Ch. 1 |
| Jan 18     | **Main Topics:** Percentages, Proportions, Ratios, and Rates; Frequency Distributions; Charts and Graphs.  
Readings: Ch. 2 |
| Jan 25     | **Main Topics:** Measure of Central Tendency and Dispersion for Nominal, Ordinal, Interval-Ratio Variables.  
Readings: Ch. 3 |
| Feb 1      | **Main Topics:** Normal Distributions; z-scores; Probabilities.  
Readings: Ch. 4 |
| Feb 8, 15  | **Main Topics:** Association between Variables and the Bivariate Table; Three Characteristics of Bivariate Associations; Measures of Association for Variables Measured at the Nominal Level; Chi Square–Based Measures of Association and Lambda.  
Readings: Ch. 8 |
| March 1, 8 | **Main Topics:** Introduction to Association between Variables Measured at the Ordinal Level; Logic of Pairs; Gamma, Kendall’s tau-b and tau-c, and Somers’ d; Spearman’s rho.  
Readings: Ch. 9 |
March 15, 22  Main Topics: Introduction to Association between Variables Measured at the Interval-Ratio Level; Scattergrams; Regression; Pearson’s r; Primer to Logit Regression/Odds Ratios.
Readings: Ch. 13 and on-line supplemental chapter on “Logistic Regression”

March 29, April 5  Main Topics: Introduction to Multivariate Analysis; Partial Tables/Measures of Association; Direct, Spurious, Intervening, and Interactive Relationships; Multiple Regression and Correlation.
Readings: Ch. 14 and on-line supplemental chapter on “Elaborating Bivariate Tables”