



Sociology 2205B

571

Winter 2017/2018

Statistics for Sociology

Professor: Don Kerr

Office: DL 312

Email: dkerr@uwo.ca

Office Hours: Tuesdays 1:30pm - 4:30pm

Ext: 4438

Class Times and Location(s): Tuesdays 9:30am - 12:30pm
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Course Description: An introduction to the techniques of statistical analysis used by sociologists, including descriptive statistics, the normal curve, hypothesis testing and various measures of association.

Prerequisite(s): At least 60% in 1.0 from Sociology courses at the 1000 level, or Social Work 1021A/B and 1022A/B.

Antirequisite(s): Biology 2244A/B, Economics 2122A/B, 2222A/B, Geography 2210A/B, Health Sciences 3801A/B, MOS 2242A/B, Psychology 2810, 2820E, 2830A/B, 2850A/B, 2851A/B, Social Work 2207A/B, Statistical Sciences 2035, 2141A/B, 2143A/B, 2244A/B, 2858A/B, 2037A/B if taken prior to Fall 2010, the former Psychology 2885 (Brescia), the former Social Work 2205, the former Statistical Sciences 2122A/B.

Unless you have either the requisites for this course or written special permission from your Dean to enroll in it, you may be removed from this course and it will be deleted from your record. This decision may not be appealed. You will receive no adjustment to your fees in the event that you are dropped from a course for failing to have the necessary prerequisites.

STATISTICS FOR SOCIOLOGY INTRODUCTION:

Some familiarity with Statistics is basic to social science. Knowledge of statistics will enable you to understand the professional research literature of your discipline, while broadening your ability to interpret the many research findings regularly encountered in everyday life. Statistical literacy will move you closer to reaching your full potential as a social scientist.

This course is required of all undergraduates in Sociology, and is a prerequisite for more advanced courses in sociology and related social sciences. This course introduces students to basic “descriptive” and “inferential statistics”.

Students are expected to understand basic mathematical procedures, and *should own a scientific calculator with the ability to perform square roots*. Students will be expected to develop basic competencies in the analysis of sociological data, in order to best summarize and evaluate sociological information. The course is meant to provide students with a range of practical skills, while preparing them for more advanced courses in statistics. With a successful completion of this course, students should be well prepared for Sociology 3306 (Investigating Social Life: Quantitative Analysis), the advanced course in methods required for the Honors Specialization Degree in Sociology and the Honors Specialization Degree in Criminology at Kings University College.

COURSE INFORMATION:

Professor: Dr. Don Kerr

Office: DL 312 (3rd floor of the Dante Lenardon Building)

Phone: 519-433-03491 ext. 4438

E-mail: dkerr@uwo.ca

Office Hours: Tuesday 1:30 - 4:30 p.m.

WEBSITE: <http://dkerr.kingsfaculty.ca/>

The course webpage is used to post lecture notes, periodically post announcements and assignments relating to this course. Also your grades will be posted on this website (password protected) as soon as they are available.

Text book:

The following bundle is a required resource for 2205B (571)

Healey/Prus' Statistics: A Tool for Social Research, 3rd Canadian edition + Aplia (digital homework solution). The bundle is available for purchase from The Bookstore at Western. **ISBN 9780176706920**

You can also purchase Aplia standalone (digital only and includes ebook access to Healey/Prus' Statistics: A Tool for Social Research, 3rd Canadian edition) from The Bookstore at Western. **ISBN 9780176680305**

Course Requirement:

Aplia ON-LINE tutorials: 20%

Problem solving assignment #1 (prior to mid-term): 15%

Midterm exam: 25%

Problem solving assignment # 2 (prior to final) 15%

Final exam: 25%

APLIA ON-LINE tutorials (worth 20% of your final grade):

For Registration on Aplia, follow the prompts on the following link. You will be paying for access when you purchase your course package for Soc 2205 (be sure to purchase the appropriate package for Section 571).

Connect to:

<http://login.nelsonbrain.com/course/9U3V-GE55-AD3K>

If you already entered an access code or bought Aplia in your bookstore or online, simply login through the above link to register for the course. **To check whether your computer meets the requirements for using Aplia, go to: <https://www.aplia.com/support/sysreq.jsp>**

Aplia is an on-line resource whereby you will be completing 7 on-line tutorials. These assignments are designed to help you better understand the statistical procedures as reviewed in this class, particularly on a conceptual level. These tutorials are by their nature “interactive”, i.e. you can try to answer specific questions on these tutorials, and if you get them wrong, Aplia will tell you why you got them wrong, and then you can try the problem again (up to 3 attempts on each tutorial). You can MAXIMIZE your grade on these APLIA assignments, potentially receiving 100% for this portion of the course.

While Aplia tutorials are all currently available to students, tutorials 1-4 are all due on the same day, Tuesday, February 7th, 9:30 a.m. sharp. Similarly, all Aplia tutorials 5-7 are simultaneously due on Tuesday, April 3rd, 9:30 AM sharp. Note: 1 second beyond 9:30 a.m. will be recorded one day late on the system.

Tutorial 1 (marks 23), Tutorial 2 (marks 33) Tutorial 3 (marks 55), & Tutorial 4 (marks 42) – Feb 7

Tutorial 5 (marks 42), Tutorial 6 (marks 39), and Tutorial 7 (marks 35) – April 3

Total Grade across 7 assignments: (marks 269)

I recommend that you get an early start on these tutorials. For example, tutorials 1 and 2 can be completed after the January 16th lecture, whereas tutorial 3 can be completed after January 23, etc. (for further detail on the timing of these tutorials, see the course outline below). Similarly, while tutorials 5-7 are due April 3rd, you can also get an early start on these tutorials as well.

IF ANY SPECIFIC TUTORIAL IS LATE BEYOND THE CORRESPONDING DUE DATE (FEB 7TH OR APRIL 3RD) YOU WILL LOSE 10 MARKS DAILY ON THAT TUTORIAL UNTIL IT IS COMPLETE. The Aplia assignments are

worth 20% overall of your final grade. So for example, let's assume that you failed to complete "Tutorial 7" altogether (worth 35 marks) yet all your other tutorial work was perfect: you would earn 234/269 marks for your Aplia tutorials, or in other words, a grade of 86.99% on this portion of the course. On the other hand, if you handed it in 4 days late, you would still receive a grade of 86.99% (because the penalty, on an assignment worth 35 marks is -40 (-10 marks daily over 4 days). Best to get everything done well ahead of time to avoid these sorts of problems.

2 Problem solving assignments (15% each)

Whereas the Aplia tutorials are largely conceptual, the two "problem solving" assignments should help you in "applying" concepts learned in class. They tend to be more detailed and "applied" relative to the Aplia tutorials. They also require more time so do not leave them to the last minute!

The first "problem solving assignment" will cover all the chapters prior to the midterm, and is designed to help you prepare for your midterm exam. This will include everything up to Chapter 7 "Hypothesis Testing: One Sample Test".

The "second problem solving assignment" will be of the same format as the first, yet cover the second half of the course. This second assignment will serve as excellent preparation for the final exam.

The types of questions on this assignment will look a lot like the problems you are expected to complete on the exams (so this is excellent practice).

These will be "HAND WRITTEN", "STAPLED", WELL ORGANIZED, and LEGIBLE!

If they are not readable, they will not be marked.

Be careful with all your calculations (follow recommended rounding procedures) and provide detail in answering these questions (here you will typically show all of your work in solving specific problems).

IN THE INTEREST OF FAIRNESS FOR ALL STUDENTS, BOTH PROBLEM SOLVING ASSIGNMENTS ARE DUE ON THE DATES NOTED. LATE ASSIGNMENTS WILL ONLY BE ACCEPTED WITHOUT PENALTY WITH APPROPRIATE DOCUMENTATION. ASSIGNMENTS RECEIVED AFTER THE DUE DATE (*BEGINNING OF CLASS ON DATE INDICATED*) WILL HAVE THEIR GRADE REDUCED BY A RATE OF 10 % DAILY. ANY EVIDENCE OF PLAGIARISM WILL RESULT IN A GRADE OF ZERO ON YOUR ASSIGNMENT.

Mid-term exam (25%)

The midterm exam will be 2 hours long. The materials will be drawn from the readings, lectures, the APLIA tutorials and the first "problem solving assignment". This test will involve a series of multiple choice questions (similar to APLIA) as well as a set of problems that the students will be expected to solve, i.e. with detailed calculations (similar to the "problem solving assignment").

FOR AN UNEXCUSED ABSENCE FROM A TEST OR EXAM, A ZERO WILL BE RECORDED. IN THE INTEREST OF FAIRNESS TO ALL STUDENTS, AND IN PARTICULAR, TO THOSE THAT

ADHERE TO THESE GUIDELINES, NO EXCEPTIONS WILL BE MADE. **IF YOU CANNOT TAKE A TEST OR EXAM (DUE TO ILLNESS OR OTHER JUSTIFIABLE REASON) ON THE DAY IT IS SCHEDULED, YOU MUST CONTACT ME BEFORE THE EXAM OR DUE DATE (IN PERSON OR BY EMAIL).**

Final Exam: 25%

The final exam will be three hours and held during the final examination period. This exam will involve a series of multiple-choice questions and a series of problems that students will be asked to solve and interpret. It will be cumulative, covering everything from the beginning of the term (although there will be greater weight placed on the second half of the course).

FOR THE FINAL EXAM, ANY ILLNESSES OR CONFLICTS MUST BE DIRECTED TOWARD THE ACADEMIC DEAN'S OFFICE PRIOR TO THE EXAMINATION DATE. ANY FAILURE TO DO SO WILL LEAVE FOR A GRADE OF ZERO

COURSE SCHEDULE AND READINGS:

January 9. Basic Descriptive Statistics: Chapters 1, 2.

January 16. Measures of Central Tendency and Dispersion: Chapter 3
After this lecture, you can now complete Aplia #1 and Aplia #2

January 23. The Normal Curve: Chapter 4.
After this lecture, you can now complete Aplia # 3

January 30: Inferential Statistics: Chapter 5
After this lecture, you can now complete Aplia #4

February 6: Estimation Procedures: Chapter 6 **(APLIA ASSIGNMENTS 1-4 DUE: 9:30 am sharp).**

February 13. Hypothesis testing: one-sample case: Chapter 7

February 20. Reading week

February 27. Hypothesis testing: two-sample case: Chapter 8
(PROBLEM SOLVING ASSIGNMENT #1 DUE: 9:30 am sharp)

March 6. MID-TERM EXAM

March 13. Chi Square Test: Chapter 10
After this lecture, you can now complete Aplia #5

March 20. Bivariate Association & Nominal Measures: Chapter 11
After this lecture, you can now complete Aplia #6

March 27. Ordinal Measures of Association: Chapter 12
After this lecture, you can now complete Aplia #7

April 3. Interval Measures of Association: Chapter 13.

(APLIA ASSIGNMENTS 5-7 DUE: 9:30 am sharp).

April 10. Review.

(PROBLEM SOLVING ASSIGNMENT #2 DUE: 9:30 am sharp)

FINAL EXAM (final examination period).

* The above schedule may be modified slightly throughout the term.

**Faculty Office Hours:**

Faculty office hours can be found on King's homepage under the menu heading Current Students (<http://www.kings.uwo.ca/current-students/courses-enrolment/planning/faculty-office-hours/>) and are also posted on the bulletin board across from the Administrative Assistants Office on the second floor of Dante Lenardon Hall.

Policy on Accommodation for Medical Illness:

(http://uwo.ca/univsec/pdf/academic_policies/appeals/accommodation_medical.pdf). Student Medical Certificate (SMC)

https://www.uwo.ca/univsec/pdf/academic_policies/appeals/medicalform.pdf

Tests/Examinations:

Students are responsible for seeking accommodation with appropriate documentation, prior to writing tests/examinations, if they are of the view that their performance may be affected by extenuating circumstances.

Support Services:

Students who are in emotional/mental health distress should refer to Mental Health@Western: <http://www.uwo.ca/uwocom/mentalhealth/> for a complete list of options about how to obtain help.

University Students Council provides many valuable support services for students (including the health insurance plan) <http://westernusc.ca/services/>.

Information about Counselling and Student Development, including Accessibility Services (formerly Services for Students with Disabilities) at King's is available at <http://www.kings.uwo.ca/about-kings/who-we-are/administrative-departments/dean-of-students/>

For emotional/mental health assistance see: <http://www.kings.uwo.ca/current-students/campus-services/student-support-services/personal-counselling/>

The website for Academic Services at King's University College is <http://www.kings.uwo.ca/current-students/academic-support/>

Statement on Use of Electronic Devices:

Use of Electronic Devices:

You are not allowed to have a cell phone, or any other electronic device, with you during tests or examinations.

Use of Laptops in the Classroom:

King's University College at The University of Western Ontario acknowledges the integration of new technologies and learning methods into the curriculum. The use of laptop computers can contribute to student engagement and effective learning. At the same time, King's recognizes that instructors and students share jointly the responsibility to establish and maintain a respectful classroom environment conducive to learning.

The use of laptops by students during lectures, seminars, labs, etc., shall be for matters related to the course at hand only. Students found to be using laptops for purposes not directly related to the class may be subject to sanctions under the Student Code of Conduct. See

https://www.kings.uwo.ca/kings/assets/File/currentStudents/studentLife/conduct/code_of_conduct_2003.pdf

Inappropriate use of laptops [or smart phones] during lectures, seminars, labs, etc., creates a significant disruption. As a consequence, instructors may choose to limit the use of electronic devices in these settings. In addition, in order to provide a safe classroom environment, students are strongly advised to operate laptops with batteries rather than power cords.”

Statement on Academic Offences:

King’s is committed to Academic Integrity.

Scholastic offences are taken seriously and students are directed to read the appropriate policy, specifically, the definition of what constitutes a Scholastic Offence, at the following Web site:

http://www.uwo.ca/univsec/pdf/academic_policies/appeals/scholastic_discipline_undergrad.pdf

All required papers may be subject to submission for textual similarity review to the commercial plagiarism detection software under license to the University for the detection of plagiarism. All papers submitted for such checking will be included as source documents in the reference database for the purpose of detecting plagiarism of papers subsequently submitted to the system. Use of the service is subject to the licensing agreement, currently between The University of Western Ontario and Turnitin.com <http://turnitin.uwo.ca/>.

Computer-marked multiple-choice tests and/or exams may be subject to submission for similarity review by software that will check for unusual coincidences in answer patterns that may indicate cheating.

Copyright re: Course Material

Lectures and course materials, including power point presentations, tests, outlines, and similar materials are protected by copyright . Faculty Members are the exclusive owner of copyright in those materials they create. Students may take notes and make copies for their own use. Students may not allow others to reproduce or distribute lecture notes and course materials publicly (whether or not a fee is charged) without the express written consent of a Faculty Member. Similarly, students own copyright in their own original papers and exam essays. If a faculty member is interested in posting a student’s answers or papers on the course web site he/she should ask for the student’s written permission.

(Commercial use of Course material - <http://umd.edu/legal/commercial.html>)

Mailbox re Submission of Late Essays/Assignments ONLY:

Only late essays/assignments not handed in at class may be dropped off in the drop box, located between the inner doors of the Cardinal Carter Library. Please inform your students that essays dropped into the mailbox will be picked-up twice per day: once in the morning (9:30 a.m.) and in the afternoon (4:00 p.m.). All essays dropped off after 4:00 p.m. on a Friday will be date-stamped the following Monday. Essays should be placed in an envelope addressed to the professor with the course code and student number clearly indicated.

Class Cancellations:

All reported class cancellations are posted at: <http://www.kings.uwo.ca/current-students/outages-service-interruptions/>