



# UNIVERSITY OF CALGARY

Winter 2021

FACULTY OF ARTS

Department of Sociology

Department of Sociology Website: <https://soci.ucalgary.ca/>

COURSE TITLE: Introductory Social Statistics II			
Course Number	SOC 315		
Pre/Co-Requisites	SOC 311, C- or better		
Instructor Name	Alex Bierman	Email	aebierma@ucalgary.ca
Instructor Email Policy	<p>Class announcements will be sent out over e-mail, so you'll need to make sure that the university has your correct e-mail address and that your e-mail account is in working order.</p> <p>We will make every effort to reply to your e-mails within 24 hours (not counting weekends), but it may take up to 24 hours to respond.</p> <p><b>Requirements for emailing Dr. Bierman.</b></p> <p>When emailing Dr. Bierman, your email should always contain certain elements. First, "SOC 311" should be in the subject line of the email. Second, your email should start out, "Dr. Bierman," "Professor Bierman," or even "Dr. B." You should then put the issue you are emailing about in the body of your email, using correct sentence structure, spelling, and punctuation. You should also sign your name and include your student number.</p> <p>If you are emailing an assignment, you should indicate that the assignment is attached and, if the assignment is deferred, the reason for the deferral. All assignments must be attached as files—links to sharepoint, onedrive, or other cloud-based depositories will not be accepted.</p> <p>Due to the complexity of course material, questions about course content will not be answered over email. You must meet with Dr. Bierman or a TA over Zoom if you have questions about course material.</p> <p><b><u>Emails that do not adhere to the requirements for emailing may not receive an acknowledgement or response. This includes emails about course content. Assignments that are attached to emails which do not meet these requirements will not be considered to have been submitted.</u></b></p>		

<b>Office Location</b>	This class is online and I will not be on campus for Winter 2021.	<b>Office Hours</b>	Mondays and Wednesdays, from 11 am to noon, through Zoom. <b>Students must make an appointment for all office hours.</b>
<b>TA Name</b>	Brayn Kuk	<b>TA Email</b>	bryan.kuk@ucalgary.ca
<b>TA Office Location</b>	N/A	<b>TA Office Hours</b>	TBA
<b>TA Name</b>	Jie Miao	<b>TA Email</b>	jie.miao@ucalgary.ca
<b>TA Office Location</b>	N/A	<b>TA Office Hours</b>	TBA
<b>Class Dates</b>	2021/01/11 - 2021/04/15		
<b>Class Times</b>	All lectures and labs are synchronous. There will be a specific day and time in which labs are reserved for students of this class, which will be Wednesdays from 3:30-6:15 pm. Students should plan to work on labs on this day and time so that they can receive help with the labs.		
<b>Class Location</b>	Online		

### Course Description

This course will focus on multivariate statistics. It will include topics such as multiple regression, dichotomous predictors, non-linear relationships, tests of mediation, and interaction analysis. Please note that this course will expand on the material learned in SOCI 311. We will begin with a review of concepts from SOCI 311 before introducing new topics, but familiarity with material from SOCI 311 is expected.

### Course Objectives/Learning Outcomes

At the end of this course, students should have knowledge and understanding of the application of the basic OLS regression model to the study of sociologically-based research questions. Students should be familiar with the concept of statistical control and why statistical controls are commonly used in the social sciences, as well as be able to employ statistical control in an OLS context using the Stata statistical program. Students should also be able to explain the conditions under which a dichotomous variable or set of dichotomous variables can be used in an OLS regression model, and also employ a dichotomous predictor or set of dichotomous predictors in a multivariate regression model using Stata. Students should also have an appreciation of the way that mediation can be used to explain associations, as well as how mediation can be tested using progressive adjustment and specific statistical tests. Moreover, students should be familiar with the purpose of interactions to test moderation, and understand how to employ these interactions in Stata. Students should also be able to evaluate a statistical model in regards to the assumptions of the OLS regression model.

## Course Format

The course format is a officially synchronous. Lectures will be held Mondays and Wednesdays mornings from 9:30 to 10:45 am over Zoom. PowerPoint slides will be posted to D2L prior to class, and recordings of the Zoom lectures will be posted to D2L after class. When the lecture materials are posted, the class will be emailed regarding accompanying reading. Labs will be Wednesdays from 3:30 to 6:15 pm. You will need to log into a lab computer remotely through the university VPN, and we will have the lab reserved for students of this class on that day and time. Directions on how to use the university VPN will be provided on D2L. Please note that lab demonstrations will be pre-recorded on video and posted to D2L.

## Learning Resources

The class has one required textbook, which can be purchased through the university bookstore. The textbook will not be posted to D2L. The book is:

Mehmetoglu, Mehmet and Tor Georg Jakobsen. 2017. *Applied Statistics Using Stata: A Guide for the Social Sciences*. Sage Press. (ISBN: 9781473913233)

Readings based on articles available through the library website may also be assigned.

## Learning Technologies and Requirements

There is a D2L site for this course which will contain all lecture videos and PowerPoint slides, as well as the data you will use in labs and sample Stata syntax (see [d2L.ucalgary.ca](http://d2L.ucalgary.ca)).

In order to successfully engage in their learning experiences at the University of Calgary, students taking online, remote and blended courses are required to have reliable access to the following technology:

- A computer with a supported operating system, as well as the latest security, and malware updates;
- A current and updated web browser;
- Webcam (built-in or external);
- Microphone and speaker (built-in or external), or headset with microphone;
- Current antivirus and/or firewall software enabled;
- Broadband internet connection.

Most current laptops will have a built-in webcam, speaker and microphone.

## Schedule of Lectures and Readings

PowerPoint slides will be posted on D2L as the class progresses. Students should use the slides to follow along with the lectures on Zoom. Following along with the lectures is especially important because students will still need to take notes, even if the PowerPoint slides are available. There are no lecture notes besides the PowerPoint slides. Students will be notified by email when a set of slides are posted to D2L. The email will indicate the reading assignment that corresponds to the posted lecture, and when Dr. Bierman expects to present the lecture.

## Methods of Assessment and Grading Weights

### Quizzes.

Starting on **January 26<sup>th</sup>**, the class will have quizzes that will usually be posted to D2L every Monday at approximately 3:00 pm, except during Reading Week. Each quiz will be composed of 10-15 true/false and multiple choice questions. It is estimated that each quiz will take no more than 1 hour to complete. The D2L system will, however, be set up to allow 3 hours to complete each quiz.

Students can take the quiz at any time between when the quiz is posted to D2L and the following Wednesday at 3:20 pm. The last possible date that a quiz will be posted to D2L is April 12<sup>th</sup>.

Please be aware that, when taking a quiz, only one question will be displayed on a page. Students will **not** be allowed to go back once they have submitted an answer. It is the students' responsibility to ensure that they have selected an answer they intended before moving on to the next question. It is also the student's responsibility to ensure that they finish to quiz in the allotted time. Once a student has submitted the quiz, the student **cannot** go back and change answers or re-take the quiz.

Quizzes will focus on material recently covered in class. However, because knowledge in statistics is cumulative, all quizzes may address any material covered up to that point in class. Students will **not** need to use Stata for the quizzes, but may be asked to interpret Stata output on the quizzes.

All quizzes are open-note and open-book. Students may use all lecture and lab materials in answering the questions, including the videos; students may also use the required and optional textbooks listed on the course outline. Students may **not** use any other resource to complete the quizzes. Prohibited resources include (but are not limited to): friends, family, and other students in the class; tutors, your instructor and TAs; and google, web pages, twitter, a class discord, online file sharing and "tutoring" sites such as CourseHero, Chegg, and other electronic resources. If a student is unclear on whether a resource is prohibited, the student should contact Dr. Bierman **before** using the resource.

If a student experiences connectivity or other electronic issues while taking a quiz that prevent completing the quiz in the 3-hour time-period, the student should Dr. Bierman immediately. The student should not wait until grades are posted.

Students should retain evidence that they completed the quiz on D2L (e.g. an emailed confirmation or screenshot of a confirmation that the quiz was submitted) **for the entire semester**. A student should retain evidence for **each** quiz. If a student reports to Dr. Bierman that a quiz was completed and there is no record of this quiz for the student on D2L, the student will be asked to produce the evidence of the submission. If the student cannot produce evidence of the submission, Dr. Bierman will consider the quiz not to have been completed by the student.

Students who do not meet the criteria for deferrals will typically not be allowed to take quizzes outside of the allotted time. In unusual situations, Dr. Bierman may allow a student without a deferral to take a missed quiz, but in this case a minimum of 30% of possible marks will be deducted as late penalty, prior to any deductions for incorrect answers.

A quiz average will be worth 70% of a student's grade. A student's quiz average will be based on the **total** number of quiz questions that are correctly answered out of the **total** number of quiz questions across the semester. For example, if there was a total of 134 questions across all of the quizzes in the semester, and a student correctly answered 122 questions, the student's quiz average will be  $100 \cdot (122/134) = 91.04478\%$ . Each quiz average will be rounded to the fifth decimal place.

### **Labs.**

Labs will serve two purposes. First, labs will be a student's opportunity to answer questions regarding material that will be addressed on the quizzes, but with a T.A. or instructor available for assistance. Second, students will learn and apply the Stata computer program to analyze data using statistical procedures that are being covered in class. Lab assignments will be a mix of work problems and Stata exercises. Labs should be turned in through the appropriate folder on D2L.

We will have a specific day and time of labs reserved, which will be Wednesdays from 3:30 to 6:15 pm. Students should plan to work on labs on this day and time so that they can receive help with the labs.

Students will need to log into a lab computer remotely through the university VPN, and we will have the lab reserved for students of this class on that day and time. Directions on how to use the university VPN will be provided on D2L.

Labs will typically be due on the Monday following the reserved lab time by 1 pm., but due dates will be on the lab assignment. If a student does not turn in the lab by this date and time, the D2L folder will close and the student will need to email the assignment directly to Dr. Bierman. If the lab is turned in after the due date and does not meet the policy for deferrals, 50% of the total marks possible will be deducted from the lab before any marks are deducted for errors.

If a student turns in an assignment partially completed, no additional aspects of the assignment will be accepted after the due date. Furthermore, if a student accidentally turns in the wrong assignment and does not realize this until after the due date, the student will not be allowed to turn in the correct assignment for credit after the due date. A student is free to turn in an updated assignment before the due date; D2L will be set so that only the most recently turned-in assignment is retained for grading.

Absolutely no handwriting or pictures of handwriting should be turned in as a lab answer; hand-written drawings of figures or pictures of hand-written drawings are also not acceptable. Answers of this type will not receive lab credit.

Students should retain evidence that they submitted lab assignments on D2L (e.g. a confirmation email) **for the entire semester**. A student should retain evidence for **each** lab assignment. If a student reports to Dr. Bierman that a lab assignment was turned in and there is no record of this assignment for the student in D2L, the student will be asked to produce the evidence of the submission. If the student cannot produce evidence of the submission, Dr. Bierman will consider the assignment not to have been turned in by the student.

The lab average will be worth 30% of a student's final grade. Lab averages will be calculated similarly to quiz averages. All marks that a student earned throughout the semester will be added together. This sum will then be divided by the sum of all marks possible on labs throughout the semester. Multiplying this value by 100 will produce the lab average. Each lab average will be rounded to the fifth decimal place.

### **Extra Credit.**

Extra credit assignments are not typically offered, but if an opportunity for extra credit arises, this opportunity will be given to the class as a whole. Individual opportunities for extra credit will not be allowed.

### Calculation of Final Average.

The final average will be calculated as  $((0.3 \times \text{lab average}) + (0.7 \times \text{quiz average}))$ . The result of this calculation will then be rounded to the fourth decimal place. Please note that, after rounding to the fourth decimal place, Dr. Bierman will **not** round up when assigning a letter grade. For example, if a student's final average is 89.9999, this will convert to an A-, not an A.

### Final Exam Information

There will be no final exam for this class, as grades will be based on the lab assignments and quizzes.

### Grading Scale

Letter grades will be assigned and submitted to the registrar based on the following scale:

Grade	Percent range	Grade Point Value	Description
A+	96 – 100%	4.0	Outstanding performance
A	90 – 95.9999%	4.0	Excellent performance
A-	85 – 89.9999%	3.7	Approaching excellent performance
B+	80 – 84.9999%	3.3	Exceeding good performance
B	75 – 79.9999%	3.0	Good performance
B-	70 – 74.9999%	2.7	Approaching good performance
C+	67 – 69.9999%	2.3	Exceeding satisfactory performance
C	63 – 66.9999%	2.0	Satisfactory performance
C-	59 – 62.9999%	1.7	Approaching satisfactory performance
D+	55 – 58.9999%	1.3	Marginal pass. Insufficient preparation for subsequent courses in the same subject
D	50 – 54.9999%	1.0	Minimal Pass. Insufficient preparation for subsequent courses in the same subject.
F	<50%	0	Failure. Did not meet course requirements.

## Passing Grades

Students do **not** have to pass all quizzes to receive a passing grade in the class. Students also do **not** have to pass all of the lab assignments to pass the class. A student's letter grade is entirely based on the procedures described in the calculations of the final average described above.

## Absences and Deferrals

When possible, students should provide advance notice if they are unable to complete a quiz or turn-in assignments on time. Deferrals will be allowed in the following circumstances: illness, domestic affliction, religious conviction, or participation in a school-sponsored activity. Please see Dr. Bierman before the need for a deferral to ensure that participation in a school-sponsored activity will qualify; for example, attending an event as a spectator will not qualify. Deferrals will not be granted if it is determined that just cause is not shown by the student.

If the reason provided for missing a quiz meets the criteria for deferrals, Dr. Bierman may at his discretion require the student to take a make-up quiz, the weight of the missed quiz may be added to another quiz, or the student's quiz average may be adjusted to not include the weight of the missed quiz.

**Deferred Term Work Form:** Deferral of term work past the end of a term requires a form to be filled out by the student and submitted, along with any supporting documentation, to the instructor. The form is available at:

<https://live-ucalgary.ucalgary.ca/sites/default/files/teams/14/deferral-of-term-work-2020.pdf>

Once an extension date has been agreed between instructor and student, the instructor will email the form to the Faculty of Arts Program Information Centre ([ascarts@ucalgary.ca](mailto:ascarts@ucalgary.ca)) for approval by the Associate Dean.

## Grade Reappraisal

Students must seek reappraisal of grading within two weeks of the date on which the marks for a quiz or assignment are posted to D2L. Students seeking reappraisal of quizzes or assignments must either submit a written response to Dr. Bierman explaining the basis for reconsideration of the marks, or meet with Dr. Bierman and discuss the basis for reconsideration. Only asking for re-grading is not sufficient; students must explain why they believe changes in grading are appropriate. In the event of an in-person meeting, Dr. Bierman may not make an immediate decision regarding a change of grade. It should be noted that a re-assessed grade may be raised, lowered, or remain the same. Please direct all requests for grade reappraisals to Dr. Bierman, not the TAs.

## Handing in Papers, Assignments

1. The main Sociology Department office does not deal with any course-related matters. Please speak directly to your instructor.
2. **Protection of Privacy:** The Freedom of Information and Protection of Privacy (FOIPP) legislation does not allow students to retrieve any course material from public places. Anything that requires handing back will be returned directly during class or office hours. If students are unable to pick up their assignments from the instructor, they can provide the instructor with a stamped, self-addressed envelope to be used for the return of the assignment. Private

information related to the individual student is treated with the utmost regard by the faculty at the University of Calgary

3. Final grades are not posted by the Sociology Department. They are only available online.

### Guidelines for Zoom Sessions

Zoom is a video conferencing program that will allow us to meet at specific times for a “live” video conference, so that we can have the opportunity to meet each other virtually and discuss relevant course topics as a learning community.

To help ensure Zoom sessions are private, do not share the Zoom link or password with others, or on any social media platforms. Zoom links and passwords are only intended for students registered in the course. Zoom recordings and materials presented in Zoom, including any teaching materials, must not be shared, distributed or published without the instructor’s permission.

The use of video conferencing programs relies on participants to act ethically, honestly and with integrity; and in accordance with the principles of fairness, good faith, and respect (as per the [Code of Conduct](#)). When entering Zoom or other video conferencing sessions (such as MS Teams), you play a role in helping create an effective, safe and respectful learning environment. Please be mindful of how your behaviour in these sessions may affect others. Participants are required to use names officially associated with their UCID (legal or preferred names listed in the Student Centre) when engaging in these activities. Instructors/moderators can remove those whose names do not appear on class rosters. Non-compliance may be investigated under relevant University of Calgary conduct policies (e.g [Student Non-Academic Misconduct Policy](#)). If participants have difficulties complying with this requirement, they should email the instructor of the class explaining why, so the instructor may consider whether to grant an exception, and on what terms. For more information on how to get the most out of your zoom sessions visit: <https://elearn.ucalgary.ca/guidelines-for-zoom/>.

Please be prepared, as best as you are able, to join class in a quiet space that will allow you to be fully present and engaged in Zoom sessions. Students will be advised by their instructor when they are expected to turn on their webcam (for group work, presentations, etc.).

The instructor will record online Zoom class sessions for the purposes of supporting student learning in this class, and will post the class recordings to D2L after class. These recordings should be used to support student learning only and should not be shared or used for any other purpose.

### Media Recording

#### **\*Media recording for lesson capture**

Dr. Bierman will post videos of all lectures and lab demonstrations. These recordings are intended to be used by students registered in the class and not for any other purpose.



## Research Ethics

Students are advised that any research with human subjects – including any interviewing (even with friends and family), opinion polling, or unobtrusive observation – must have the approval of the Conjoint Faculties Research Ethics Board. In completing course requirements, students must not undertake any human subjects research without discussing their plans with the instructor, to determine if ethics approval is required.

## Copyright Legislation

All students are required to read the University of Calgary policy on Acceptable Use of Material Protected by Copyright (<https://www.ucalgary.ca/policies/files/policies/acceptable-use-of-material-protected-by-copyright-policy.pdf>) and requirements of the Copyright Act (<https://laws-lois.justice.gc.ca/eng/acts/C-42/index.html>) to ensure they are aware of the consequences of unauthorized sharing of course materials (including instructor notes, electronic versions of textbooks etc.). Students who use material protected by copyright in violation of this policy may be disciplined under the Non-Academic Misconduct Policy.

## Instructor Intellectual Property

Course materials created by professor(s) (including course outlines, presentations and posted notes, labs, case studies, assignments and exams) remain the intellectual property of the professor(s). These materials may NOT be reproduced, redistributed or copied without the explicit consent of the professor. The posting of course materials to third party websites such as note-sharing sites without permission is prohibited. Sharing of extracts of these course materials with other students enrolled in the course at the same time may be allowed under fair dealing.

## Recording of Lectures

The audio or video recording of lectures and taking screenshots of PowerPoint slides during the lecture are not permitted without explicit authorization. The non-authorized media recording of lectures is inconsistent with the Code of Conduct and may result in discipline in accordance with the Student Non-Academic Misconduct Policy and Procedure. For more information click here: <https://www.ucalgary.ca/policies/files/policies/non-academic-misconduct-policy.pdf>.

## Sharing of Lecture Notes and Exam Questions

Publicly sharing lectures notes and exam questions on 3rd party sites such as OneClass, StudyBlue, Quizlet, Course Hero, etc. is not permitted. If you wish to use these helpful studying tools, make sure you adjust your privacy settings accordingly. Any violations are subject to investigation under the UofC Student Non-Academic Misconduct Policy. For more information, click here: <https://www.ucalgary.ca/policies/files/policies/non-academic-misconduct-policy.pdf>.

## Academic Misconduct

Please refer to the website listed below for information on University of Calgary policies on Plagiarism/Cheating/Other Academic Misconduct:  
<http://www.ucalgary.ca/pubs/calendar/current/k.html>

## Academic Accommodation

Students seeking an accommodation based on disability or medical concerns should contact Student Accessibility Services; SAS will process the request and issue letters of accommodation to instructors. For additional information on support services and accommodations for students with disabilities, visit [www.ucalgary.ca/access/](http://www.ucalgary.ca/access/). Students who require an accommodation in relation to

their coursework based on a protected ground other than disability should communicate this need in writing to their Instructor. The full policy on Student Accommodations is available at:

<http://www.ucalgary.ca/policies/files/policies/student-accommodation-policy.pdf>

Students needing an Accommodation based on a Protected Ground other than Disability, should communicate this need, preferably in writing, to the course instructor.

### Libraries & Cultural Resources

To contact your librarian or find out about the resources and services available to sociology students go to the Sociology Library guide: <https://library.ucalgary.ca/guides/sociology>

To access the main Library website go to: <https://library.ucalgary.ca>

### Wellness and Mental Health Resources

The University of Calgary recognizes the pivotal role that mental health plays in physical health, social connectedness and academic success, and aspires to create a caring and supportive campus community where individuals can freely talk about mental health and receive support when needed. We encourage you to explore the excellent mental health resources available throughout the university community, such as counselling, self-help resources, peer support or skills-building available through Student Wellness Services (Room 370 MacEwan Student Centre, <https://www.ucalgary.ca/wellness-services/services/mental-health-services>) and the Campus Mental Health Strategy (<http://www.ucalgary.ca/mentalhealth/>).

### Student Success Centre

The Student Success Centre provides services and programs to ensure students can make the most of their time at the University of Calgary. Our advisors, learning support staff, and writing support staff assist students in enhancing their skills and achieving their academic goals. They provide tailored learning support and advising programs, as well as one-on-one services, free of charge to all undergraduate and graduate students. For more information visit:

<https://www.ucalgary.ca/student-services/student-success>

### Student Ombuds Office

The Student Ombuds Office supports and provides a safe, neutral space for students. For more information, please visit [www.ucalgary.ca/ombuds/](http://www.ucalgary.ca/ombuds/) or email [ombuds@ucalgary.ca](mailto:ombuds@ucalgary.ca).

### Student Union (SU) Information

The SU Vice-President Academic can be reached at (403) 220-3911 or [suvpaca@ucalgary.ca](mailto:suvpaca@ucalgary.ca); Information about the SU, including elected Faculty Representatives, can be found here:

<https://www.su.ucalgary.ca>.

### Emergency Evacuation/Assembly Points

Assembly points for emergencies have been identified across campus. Assembly points are designed to establish a location for information updates from the emergency responders to the evacuees; from the evacuated population to the emergency responders. For more information, see the University of Calgary's Emergency Management website:

<https://live-risk.ucalgary.ca/risk/emergency-management/evac-drills-assembly-points/assembly-points>

## Safewalk

Campus security will escort individuals, day or night, anywhere on campus (including McMahon Stadium, Health Sciences Centre, Student Family Housing, the Alberta Children's Hospital and the University LRT station). Call 403-220-5333 or visit <http://www.ucalgary.ca/security/safewalk>. Use any campus phone, emergency phone or the yellow phone located at most parking lot pay booths. Please ensure your personal safety by taking advantage of this service.