



**COURSE OUTLINE FOR REMOTE LEARNING**

1. **Course:** STAT 217, Introduction to Statistics II - Spring 2020

Lecture 01: TR 18:00 - 20:45 - Online

Instructor	Email	Phone	Office	Hours
Dr. Mojtaba Aghajanoorpoor	mojtaba.aghajanpoorp@ucalgary.ca	TBA	MS 332	TR 17:00 - 18:00

**Remote Learning Supplemental Information:**

Some aspects of this course are being offered in real-time via scheduled meeting times. For those aspects you are required to be online at the same time. Please refer to the details below for more complete information.

**Remote Learning Details:**

Our remote learning plan for STAT 217 is to post the solved note booklets for you (in content section of D2L), with the corresponding video segments for explanation. The lectures will be recorded; We will meet Tuesdays and Thursdays at 18:00 to 20:45 via Zoom:

- Topic: STAT 217 L01 - (Spring 2020) - Introduction to Statistics II  
Every week on Tue, Thu, until Jun 16, 2020, 12 occurrence(s)
- May 7, 2020 06:00 PM
  - May 12, 2020 06:00 PM
  - May 14, 2020 06:00 PM
  - May 19, 2020 06:00 PM
  - May 21, 2020 06:00 PM
  - May 26, 2020 06:00 PM
  - May 28, 2020 06:00 PM
  - Jun 2, 2020 06:00 PM
  - Jun 4, 2020 06:00 PM
  - Jun 9, 2020 06:00 PM
  - Jun 11, 2020 06:00 PM
  - Jun 16, 2020 06:00 PM

Please download and import the following iCalendar (.ics) files to your calendar system.  
 Weekly: [https://ucalgary.zoom.us/meeting/tjlkcumtqTopHNzHEWpSWHyAwR-cUsBayQZC/ics?icsToken=98tyKuCupz4qH9OUsx-PRowAHY\\_4c-\\_wtn5ego1HtDrSExNkShrXldAPMYdsMtnj](https://ucalgary.zoom.us/meeting/tjlkcumtqTopHNzHEWpSWHyAwR-cUsBayQZC/ics?icsToken=98tyKuCupz4qH9OUsx-PRowAHY_4c-_wtn5ego1HtDrSExNkShrXldAPMYdsMtnj)

Join Zoom Meeting  
<https://ucalgary.zoom.us/j/96950571368>

**Course Site:**

D2L: STAT 217 L01-(Spring 2020)-Introduction to Statistics II

**Note:** Students must use their U of C account for all course correspondence.

2. **Requisites:**

See section [3.5.C](#) in the Faculty of Science section of the online Calendar.

**Prerequisite(s):**

Statistics 213.

**Antirequisite(s):**

Credit for Statistics 217 and any one of Statistics 205, 327, Political Science 399, Psychology 300, 301, 312, or Sociology 311 will not be allowed. Not available to students who have previous credit for one of Statistics 321 or Engineering 319 or are concurrently enrolled in Statistics 321 or Engineering 319.

3. **Grading:**

The University policy on grading and related matters is described in [F.1](#) and [F.2](#) of the online University Calendar. In determining the overall grade in the course the following weights will be used:

Component(s)	Weighting %	Date
Assignments (5)	30%	Assignment 1: Week 3, May 23 Assignment 2: Week 4, May 30 Assignment 3: Week 5, June 6 Assignment 4: Week 6, June 13 Assignment 5: Week 7, June 20
Lab Quizzes	16%	Quizzes 1&2: Week 4, May 25 Quizzes 3&4: Week 5, June 1 Quizzes 5&6: Week 6, June 8 Quizzes 7&8: Week 7, June 15
Midterms (2)	24% (divided in 2)	Midterm 1: May 30 (120 minutes)* Midterm 2: June 13 (120 minutes)*
Final Examination	30%	3 hours - Registrar scheduled exam**

\*Exam will be open for 3 hours if needed to complete to account for unforeseen circumstances like internet interruptions.

\*\*For example, if the registrar schedules an exam from 2-5pm on June 20, 2020, the exam must be submitted no later than 5pm on June 20, 2020 to be graded. The final exam is designed to be completed in 3 hours, but students will receive an extra hour if needed to complete to account for unforeseen circumstances like internet interruptions.

Additional time will be granted to SAS students, and other accommodation will be done on a case-by-case basis.

Each piece of work (reports, assignments, quizzes, midterm exam(s) or final examination) submitted by the student will be assigned a grade. The student's grade for each component listed above will be combined with the indicated weights to produce an overall percentage for the course, which will be used to determine the course letter grade.

The conversion between a percentage grade and letter grade is as follows.

	A+	A	A-	B+	B	B-	C+	C	C-	D+	D
<b>Minimum % Required</b>	95 %	90 %	85 %	80%	75%	70 %	65 %	60%	55%	54.99 %	50 %

This course has a registrar scheduled final exam.

#### Supplemental Information or Grade Limiting Statement(s):

1. In the unlikely event that a student has not been able to write the midterm (because of an appropriate [see deferred final exam reasons <https://www.ucalgary.ca/registrar/exams/deferred-exams>] excused absence), the instructor may grant an alternative time to write the exam prior (not after) the scheduled time.
2. Students with a valid reason for missing one of the midterms would be allowed to shift the weight to the final examination.
3. Students who have not obtained an excused absence for a midterm will receive 0% on the missed midterm.
4. Students who are unable to write either midterms (again only for validated reasons) will be required to sit a supplemental midterm examination, which will carry the same weight as the combined midterms.
5. A passing mark on the final exam, at least 50%, is required to earn a minimum grade of C-.
6. If a student possesses accessibility accommodations, and wishes to use them, they must set an appointment with the Student Accessibility Centre to write the assessment the same day as scheduled otherwise. They must also inform the instructor at least one week in advance to adjust settings etc.

#### 4. Missed Components Of Term Work:

The university has suspended the requirement for students to provide evidence for absences. Please do not

attend medical clinics for medical notes or Commissioners for Oaths for statutory declarations.

In the event that a student legitimately fails to submit any online assessment on time (e.g. due to illness etc...), please contact the course coordinator to arrange for a re-adjustment of a submission date. Absences not reported within 48 hours will not be accommodated. If an excused absence is approved, then the percentage weight of the legitimately missed assignment could also be pro-rated among the components of the course.

#### 5. **Scheduled Out-of-Class Activities:**

There are no scheduled out of class activities for this course.

#### 6. **Course Materials:**

Required Textbook(s):

James McClave & Terry Sincich, *Statistics with Custom Chapter MyStatLab & Minitab RVP*: Pearson.

**The textbook is "optional"** in the sense that you will not be forced to buy it. However, no additional practice questions will be given. Older edition texts or similar texts are fine to use but you will have to match the topics yourself and will obviously not be a perfect match. **The bookstore informed us that the text is cheaper when bundled with MyStatLab and MINITAB, however, we will not be using these programs this semester.**

Course Notes may be downloaded from D2L course web page.

Note: course notes will only be available for download for 14 days after they are discussed in class. The D2L website will be taken down (and not returned) the day before the final exam.

#### 7. **Examination Policy:**

Exams are to be written via Webwork, only one submission will be permitted.

Students should also read the Calendar, [Section G](#), on Examinations.

#### 8. **Approved Mandatory And Optional Course Supplemental Fees:**

There are no mandatory or optional course supplemental fees for this course.

#### 9. **Writing Across The Curriculum Statement:**

For all components of the course, in any written work, the quality of the student's writing (language, spelling, grammar, presentation etc.) can be a factor in the evaluation of the work. See also Section [E.2](#) of the University Calendar.

#### 10. **Human Studies Statement:**

Students will not participate as subjects or researchers in human studies.

See also [Section E.5](#) of the University Calendar.

#### 11. **Reappraisal Of Grades:**

A student wishing a reappraisal, should first attempt to review the graded work with the Course coordinator/instructor or department offering the course. Students with sufficient academic grounds may request a reappraisal. **Non-academic grounds are not relevant for grade reappraisals.** Students should be aware that the grade being reappraised may be raised, lowered or remain the same. See [Section I.3](#) of the University Calendar.

a. **Term Work:** The student should present their rationale as effectively and as fully as possible to the Course coordinator/instructor within **ten business days** of either being notified about the mark, or of the item's return to the class. If the student is not satisfied with the outcome, the student shall submit the Reappraisal of Graded Term work form to the department in which the course is offered within 2 business days of receiving the decision from the instructor. The Department will arrange for a reappraisal of the work within the next ten business days. The reappraisal will only be considered if the student provides a detailed rationale that outlines where and for what reason an error is suspected. See sections [I.1](#) and [I.2](#) of the University Calendar

b. **Final Exam:** The student shall submit the request to Enrolment Services. See [Section I.3](#) of the University Calendar.

#### 12. **Other Important Information For Students:**

a. **Mental Health** The University of Calgary recognizes the pivotal role that student 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 supports when needed. We encourage you to explore the mental health resources available throughout the university community, such as counselling, self-help resources, peer support or skills-building available through the SU Wellness Centre (Room 370, MacEwan Student Centre, [Mental Health Services Website](#)) and the Campus Mental Health Strategy website ([Mental Health](#)).

- b. **SU Wellness Center:** For more information, see [www.ucalgary.ca/wellnesscentre](http://www.ucalgary.ca/wellnesscentre) or call [403-210-9355](tel:403-210-9355).
- c. **Sexual Violence:** The Sexual Violence Support Advocate, Carla Bertsch, can provide confidential support and information regarding sexual violence to all members of the university community. Carla can be reached by email ([svsa@ucalgary.ca](mailto:svsa@ucalgary.ca)) or phone at [403-220-2208](tel:403-220-2208). The complete University of Calgary policy on sexual violence can be viewed at (<https://www.ucalgary.ca/policies/files/policies/sexual-violence-policy.pdf>)
- d. **Misconduct:** Academic misconduct (cheating, plagiarism, or any other form) is a very serious offence that will be dealt with rigorously in all cases. A single offence may lead to disciplinary probation or suspension or expulsion. The Faculty of Science follows a zero tolerance policy regarding dishonesty. Please read the sections of the University Calendar under [Section K](#). Student Misconduct to inform yourself of definitions, processes and penalties. Examples of academic misconduct may include: submitting or presenting work as if it were the student's own work when it is not; submitting or presenting work in one course which has also been submitted in another course without the instructor's permission; collaborating in whole or in part without prior agreement of the instructor; borrowing experimental values from others without the instructor's approval; falsification/ fabrication of experimental values in a report. **These are only examples.**
- e. **Academic Accommodation Policy:** Students needing an accommodation because of a disability or medical condition should contact Student Accessibility Services in accordance with the procedure for accommodations for students with disabilities available at [procedure-for-accommodations-for-students-with-disabilities.pdf](#).  
  
Students needing an accommodation in relation to their coursework or to fulfill requirements for a graduate degree, based on a protected ground other than disability, should communicate this need, preferably in writing, to the Associate Head of the Department of Mathematics & Statistics, Mark Bauer by email [bauerm@ucalgary.ca](mailto:bauerm@ucalgary.ca) or phone [403-220-4189](tel:403-220-4189). Religious accommodation requests relating to class, test or exam scheduling or absences must be submitted no later than **14 days** prior to the date in question. See [Section E.4](#) of the University Calendar.
- f. **Freedom of Information and Privacy:** This course is conducted in accordance with the Freedom of Information and Protection of Privacy Act (FOIPPA). Students should identify themselves on all written work by placing their name on the front page and their ID number on each subsequent page. For more information, see [Legal Services](#) website.
- g. **Student Union Information:** [VP Academic](#), Phone: [403-220-3911](tel:403-220-3911) Email: [suvpaca@ucalgary.ca](mailto:suvpaca@ucalgary.ca). SU Faculty Rep., Phone: [403-220-3913](tel:403-220-3913) Email: [sciencerep@su.ucalgary.ca](mailto:sciencerep@su.ucalgary.ca). [Student Ombudsman](#), Email: [ombuds@ucalgary.ca](mailto:ombuds@ucalgary.ca).
- h. **Surveys:** At the University of Calgary, feedback through the Universal Student Ratings of Instruction ([USRI](#)) survey and the Faculty of Science Teaching Feedback form provides valuable information to help with evaluating instruction, enhancing learning and teaching, and selecting courses. Your responses make a difference - please participate in these surveys.
- i. **Copyright of Course Materials:** All course materials (including those posted on the course D2L site, a course website, or used in any teaching activity such as (but not limited to) examinations, quizzes, assignments, laboratory manuals, lecture slides or lecture materials and other course notes) are protected by law. These materials are for the sole use of students registered in this course and must not be redistributed. Sharing these materials with anyone else would be a breach of the terms and conditions governing student access to D2L, as well as a violation of the copyright in these materials, and may be pursued as a case of student academic or [non-academic misconduct](#), in addition to any other remedies available at law.

#### Course Outcomes:

- Conduct appropriate parametric and/or non-parametric single and multiple population comparisons (for both qualitative and quantitative data types), applying confidence interval estimation and hypothesis testing. Verify the necessary conditions of: the Normality, the equality of variance, and the dependence of the data structure(s)
- Recognize and distinguish between Type I and Type II errors that accompany statistical hypothesis testing.

Displaying the ability to calculate the probabilities associated with these errors, for both single population proportions and large sample sized population means

- Evaluate the correlation between bivariate data for two qualitative variables
- Determine the 'Goodness-of-Fit' of an empirical data set to the well-known probability models: Binomial, Poisson, as well as any specified well-defined model.
- Model and verify the statistical significance of the model relating two quantitative variables (least-squares estimation). Demonstrate awareness of the conditions of the linear model and validate that these conditions are met through various techniques. Produce confidence interval estimation of both the mean and an individual value of the response variable
- Display and interpret the least-squares-estimate for Multiple Linear Regression. To defend, model, and verify the statistical significance of the regression equation's estimate from two or more quantitative and/or qualitative independent variables.
- Conduct population parameter comparisons between three or more quantitative variables through the employment of the balanced: One-Way-ANOVA/Post Hoc inference (Tukey's HSD), Two- Way-ANOVA (including repetition), and with selected Non-parametric counterparts.
- Demonstrate how to use critical thinking, formulae, and statistical software to provide solutions for both theoretical and practical applications of course material.

Electronically Approved - May 01 2020 18:18

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**Department Approval**

Electronically Approved - May 11 2020 19:50

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**Associate Dean's Approval for arrangements for remote learning**