REVISED COURSE OUTLINE FOR REMOTE LEARNING

To account for the necessary transition to remote learning from March 13 onward, adjustments have been made to assessment deadlines and requirements so that all coursework tasks are in line with the necessary and evolving health precautions for all involved (students and staff). If you are unable to meet the deadlines or requirements specified, please connect with your course instructor to work out alternative dates/assessments.

1. Course: STAT 205, Introduction to Statistical Inquiry - Winter 2020
   Lecture 01: MWF 11:00 - 11:50 - Remote Learning (check with your instructor or coordinator for details)
   Instructor: James Stallard  
   Email: jbstall@ucalgary.ca  
   Phone: 403 220-3953  
   Office: MS 582  
   Hours: MW: 3:00 - 4:00pm

   Lecture 02: MWF 11:00 - 11:50 - Remote Learning (check with your instructor or coordinator for details)
   Instructor: James Stallard  
   Email: jbstall@ucalgary.ca  
   Phone: 403 220-3953  
   Office: MS 582  
   Hours: MW: 3:00 - 4:00pm

   Lecture 03: MWF 13:00 - 13:50 - Remote Learning (check with your instructor or coordinator for details)
   Instructor: Dr. Sang Kang  
   Email: sangjin.kang@ucalgary.ca  
   Phone: 403 210-8697  
   Office: MS 364  
   Hours: Wed 1 pm-2 pm, Thu 1 pm-3 pm (STAT 205) / Tue 9 am-11 am, Fri 9 am-10 am (ACSC 327)

   Coordinator(s)
   Name: James Stallard  
   Email: jbstall@ucalgary.ca  
   Phone: 403 220-3953  
   Office: MS 582  
   Hours: MW: 3:00 - 4:00pm

Course Site:
D2L: STAT 205 L01-(Winter 2020)-Introduction to Statistical Inquiry

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): Mathematics 30-1 or 30-2 or Mathematics 2 (offered by Continuing Education).

   Antirequisite(s): Credit for Statistics 205 and any one of Statistics 211, 213, 217, 327, Political Science 399, Psychology 300, 301, 312, or Sociology 311 will not be allowed. Students may not register in, or have credit for, Statistics 205 if they 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:
<table>
<thead>
<tr>
<th>Component(s)</th>
<th>Weighting %</th>
<th>Additional %</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARS - Top Hat Exercises</td>
<td>10%</td>
<td>3%</td>
<td>See Additional Course Information</td>
</tr>
<tr>
<td>Assignments (10)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Midterm Exams (2)</td>
<td>MT #1: 17.5%</td>
<td>MT #2: 24.17%</td>
<td>(L01/L02): MT1: Feb. 10; MT 2: Mar. 23 (online via WebWork between 1:00 and 3:00pm)</td>
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<tr>
<td></td>
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<td></td>
<td>(L03): MT1: Feb. 13; MT 2: Mar. 26 (online via WeBWorK between 1:00pm and 5:00pm)</td>
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<tr>
<td>Lab Exam</td>
<td>24.16%</td>
<td></td>
<td>Lab Exam will be completed online with WeBWorK. Access to the lab exam will be from 1:00pm to 5:00pm on day associated with the lecture section.</td>
</tr>
<tr>
<td>Final Exam</td>
<td>24.17%</td>
<td></td>
<td>Common Final Exam: Written online with WeBWorK on the day of the scheduled Final Exam (April 20th). Students can start the final exam at any time between 3:30pm (April 20th) to 3:30 pm on the 21st of April.</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th></th>
<th>A+</th>
<th>A</th>
<th>A-</th>
<th>B+</th>
<th>B</th>
<th>B-</th>
<th>C+</th>
<th>C</th>
<th>C-</th>
<th>D+</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum % Required</td>
<td>95%</td>
<td>90%</td>
<td>85%</td>
<td>80%</td>
<td>75%</td>
<td>70%</td>
<td>65%</td>
<td>60%</td>
<td>55%</td>
<td>54%</td>
<td>50%</td>
</tr>
</tbody>
</table>

A passing mark on the final exam (at least 50%) is NO LONGER required in order to earn a minimum letter grade of C- in the course.

4. Missed Components Of Term Work:

The University has suspended requirements for students to provide evidence for reasons for absences so please do not attend medical clinics for medical notes or Commissioners for Oaths for statutory declarations. Please let your instructor know immediately if you are ill and cannot meet the deadlines specified.

5. Scheduled Out-of-Class Activities:

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

6. Course Materials:

Recommended Textbook(s):


Midterm Exam #2, the Lab Exam, and the Final Exam will now run through WeBWorK. The WeBWorK pages corresponding to each lecture section are provided below:

L01/L02: [https://webwork.ucalgary.ca/webwork2/W2020STAT205L01L02/](https://webwork.ucalgary.ca/webwork2/W2020STAT205L01L02/)

L03: [https://webwork.ucalgary.ca/webwork2/W2020STAT205L03/](https://webwork.ucalgary.ca/webwork2/W2020STAT205L03/)
7. **Examination Policy:**

You will be provided with formulae for both your midterm exams and your final exam.

Programmable or graphing calculators are prohibited from either the midterm exam or the final exam environment.

Personal electronic devices such as iPhones, smartphones, iWatches, smart watches, FitBits, or any other item that has the ability to receive or send an electronic signal are strictly prohibited from the midterm and final exam environment.

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:** The Students Union Wellness Centre provides health and wellness support for students including information and counselling on physical health, mental health and nutrition. For more information, see www.ucalgary.ca/wellnesscentre or call 403-210-9355.

   c. **Sexual Violence:** The University of Calgary is committed to fostering a safe, productive learning environment. The Sexual Violence Policy (https://www.ucalgary.ca/policies/files/policies/sexual-violence-policy.pdf) is a fundamental element in creating and sustaining a safer campus environment for all community members. We understand that sexual violence can undermine students' academic success and we encourage students who have experienced some form of sexual misconduct to talk to someone about their experience, so they can get the support they need. 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) or phone at 403-220-2208.
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. **Assembly Points:** In case of emergency during class time, be sure to FAMILIARIZE YOURSELF with the information on assembly points.

f. **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 or phone 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.

g. **Safewalk:** Campus Security will escort individuals day or night (See the Campus Safewalk website). Call 403-220-5333 for assistance. Use any campus phone, emergency phone or the yellow phones located at most parking lot pay booths.

h. **Freedom of Information and Privacy:** This course is conducted in accordance with the Freedom of Information and Protection of Privacy Act (FOIPP). 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.

i. **Student Union Information:** VP Academic, Phone: 403-220-3911 Email: suvpaca@ucalgary.ca. SU Faculty Rep., Phone: 403-220-3913 Email: sciencerep@su.ucalgary.ca. Student Ombudsman, Email: ombuds@ucalgary.ca.

j. **Internet and Electronic Device Information:** Unless instructed otherwise, cell phones should be turned off during class. All communication with other individuals via laptop, tablet, smart phone or other device is prohibited during class unless specifically permitted by the instructor. Students that violate this policy may be asked to leave the classroom. Repeated violations may result in a charge of misconduct.

k. **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.

l. **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:**
- Define a random variable; conceptualize its sample space, and calculate the likelihood of various events that random variable(s) could produce.
- Identify a targeted population and its corresponding target parameter. Display how various sampling methods can target a population, with minimal bias.
• Describe and analyze a random variable’s properties through a visual and numeric examination of its distribution shape, measure of centre, and measure of spread

• Comprehend and display the Central Limit Theorem and its implications on statistical inference via confidence interval estimation and hypothesis testing. This is to include methodology for both qualitative and quantitative data types as well as for single and multiple population comparisons.

• Explain the correlation between bivariate data, again, for both qualitative and quantitative samples. Constructing the least-squares estimate when applicable.

• Demonstrate how to use critical thinking, formulae, and statistical software to provide solutions for both theoretical and practical applications of course material.

Electronically Approved - Mar 22 2020 13:38

Department Approval

Electronically Approved - Mar 22 2020 18:33

Associate Dean’s Approval for alternate final examination arrangements or remote learning