STAT 200 - Elementary Statistics for Applications

2021/22 Winter Term 1

Course website: on Canvas

Course Description

Classical, nonparametric, and robust inferences about means, variances, and analysis of variance, using computers. Emphasis on problem formulation, assumptions, and interpretation.

Course Objective

This course provides the basic statistical toolkit required for the understanding and use of a range of methods for both summarizing and analyzing data, giving a platform for further study of applied Statistics. The emphasis in the course will be the application of these methods to real-life situations from Science.

Prerequisites:

One of MATH 101, 103, 105, 120 or SCIE 001

Instructors:

Rodolfo Lourenzutti & Melissa Lee

Course email:

stat200@ugrad.stat.ubc.ca

Recommended textbook:


Labs:

You must attend the lab section that you registered for. Some labs are in-person and some are online, please double check your section to see whether it is in-person or online. You are required to use R Statistical software (a freeware) for labs in this course. More details about R can be found on Canvas.

Piazza Discussion Board:

This term we will be using Piazza for class discussion. The system is highly catered to getting you help fast and efficiently from classmates, the TAs, and your instructors. Rather
than emailing questions to the teaching staff, we encourage you to post your questions on Piazza. If you have any problems or feedback for the developers, email team@piazza.com.

**Course Assessment:**

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<thead>
<tr>
<th>Assessment</th>
<th>Date</th>
<th>Percentage</th>
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</thead>
<tbody>
<tr>
<td>Online Quizzes</td>
<td>TBA</td>
<td>10</td>
</tr>
<tr>
<td>WeBWork Online homework</td>
<td>weekly</td>
<td>12</td>
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<tr>
<td>Labs</td>
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<tr>
<td>Written Assignments</td>
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<tr>
<td>Midterm</td>
<td>TBA</td>
<td>22</td>
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<tr>
<td>Final Exam</td>
<td>To be scheduled by Classroom Services</td>
<td>30</td>
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**Midterm & Final exam**

Students must write their midterm during lecture time for which they registered (E.g. Section 101: MWF 9 - 10AM or Section 103: MWF 2 - 3PM)

The midterm and finale exam for both sections will administered via Canvas quizzes. We strongly recommend students to use Google Chrome browser to avoid issues with Canvas.

For the midterm:

- **Section 101** will be invigilated online via Zoom. Please ensure that you meet system requirements to use Zoom.
- **Section 103** will be invigilated in-person during lecture. You must bring your laptop to the midterm.

For the final exam:

All students will write in-person exams for both sections. Students who are prevented from being present on campus for reasons outside of their control, will apply to take a remote exam invigilated via Zoom.

If you need to borrow a device, see here for details: https://services.library.ubc.ca/computers-technology/technology-borrowing/

1. There will be no make-up exams.
2. Students who miss a midterm exam should notify the instructor prior to (if possible) or immediately after the midterm. Students must fill out a “Student Declaration of Academic Concession” form within one week of the day of the midterm.
3. Students who miss the final exam must report to their Faculty advising office within 72 hours of the missed exam. Only your Faculty Advising office can grant deferred standing in a course. You must also notify your instructor prior to (if possible) or immediately after the exam. Your instructor will let you know when you are expected to write your deferred exam. Deferred exams will ONLY be provided to students who have applied for and received deferred standing from their Faculty.
Chapters to be covered: 1-20, 22, 24

Detailed learning outcomes can be found on the course website. Refer to this document throughout the course to clarify the outcomes you are expected to attain each section of the material.

Academic Integrity

All students are expected to follow UBC’s Academic Honesty and Standards policy. We encourage students to work together on assignments and labs, however all of your work must be written in your own words. Students must correctly cite references if you quote or use outside sources in your work. Breach of the academic integrity policy may, at a minimum, result in a grade of 0 on the relevant assessment or may result in more serious consequences.

Please see UBC’s Academic Calendar for detailed policies on Academic Misconduct: http://calendar.ubc.ca/vancouver/index.cfm?tree=3,54,111,0.

Reach Out for Success

University students often encounter setbacks from time to time that can impact academic performance. Discuss your situation with your instructor or an academic advisor. Learn about how you can plan for success at www.students.ubc.ca. For help addressing mental or physical health concerns, including seeing a UBC counsellor or doctor, visit https://students.ubc.ca/health/wellness-centre.

UBC provides resources to support student learning and to maintain healthy lifestyles but recognizes that sometimes crises arise and so there are additional resources to access including those for survivors of sexual violence. UBC values respect for the person and ideas of all members of the academic community. Harassment and discrimination are not tolerated nor is suppression of academic freedom. UBC provides appropriate accommodation for students with disabilities and for religious and cultural observances. UBC values academic honesty and students are expected to acknowledge the ideas generated by others and to uphold the highest academic standards in all of their actions. Details of the policies and how to access support are available here.