STAT:3510:CCC  Biostatistics  Fall 2020

Instructor: Prof. Joyee Ghosh

Contact Information:

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- Phone: (319)-335-0816
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Teaching Assistant: Mr. Steven Manning

Contact Information:

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Teaching Modality: Asynchronous (Recorded lectures)

Time: Lecture videos will be posted on ICON by 2:30 PM M/W/F and you are encouraged to watch the videos during 2:30-3:20 PM. Then any questions related to lecture videos can be immediately asked during my Zoom office hours M/W/F 2:30-3:30 PM.

TA discussions will be held in person and currently our plan is to record the sessions and post it on ICON. If for some technical issues, this plan does not work out well, notes from discussions will be made available.

Access to all the recordings (lectures/discussions) will be restricted to class members.

Department Information: Department of Statistics and Actuarial Science, 241 Schaeffer Hall, Phone: 335-2082.

Departmental Executive Officer: Prof. Kung-Sik Chan, 241 SH, Phone: 335-0712.

Course Prerequisite: 22M:001 (Basic Algebra) or equivalent.

Computer Software: You will mainly use your calculators but I will show you how to use the free statistical software R, for some basic statistical computing and checking your final answers etc. R can be used through Rweb at http://rweb.stat.uiowa.edu/Rweb.general.html or R can be downloaded on your computer from http://cran.r-project.org/. Professor Bognar’s webpage has some nice applets: https://homepage.divms.uiowa.edu/~mbognar/index.html.

Instructor Zoom Office Hours (not recorded): M/W/F 2:30-3:30 PM or by appointment. Please drop by on Zoom with questions about the course materials or concerns. These will not be recorded. No appointment is needed to drop by in walk-in/office hours. If you are unable to attend the Zoom walk-in hours please make an appointment to meet (remotely) with me.

TA Zoom Office Hours (not recorded): T 4:30-4:45 PM, T/W 7:00-8:00 PM.

Course Website: I will post announcements, homework problems, lecture notes, and other course information on ICON.

Course Description and Objectives: The main objective of this course is to help students learn the basic statistical concepts and methods for summarizing, presenting and analyzing data from biological and health sciences. Upon completion of the course students are expected to be able to understand standard statistical analysis results in the biological and health sciences literature. We will cover chapters 1-3, 6-12, 14-15, 17-19, and other chapters if time permits.

Grading
Your semester grade will consist of the following components:

<table>
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<tr>
<th>Component</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>Homework</td>
<td>15%</td>
</tr>
<tr>
<td>Two Midterm Exams</td>
<td>50%</td>
</tr>
<tr>
<td>Final Exam</td>
<td>35%</td>
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<tr>
<td>Total</td>
<td>100%</td>
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A plus-minus grading system will be used. As a rough guide: A: 90-100%, A-: 88-90%, B+: 85-88%, B: 80-85%, B-: 75-80%, C+: 72-75%, C: 65-72%, C-: 60-65%, D+: 57-60%, D: 54-57%, D-: 50-54%, F: ≤50%. The A+ grade is rarely awarded.

Homework
Homework (HW) will be usually assigned on Wednesdays and due on the following Wednesday by 11:59 PM via ICON. HW questions will be posted as Assignments on ICON. First HW will be due on September 9. After that HW will be due every week, except in exam weeks. HW should show name, discussion section, and HW number written at the top of the first page. Please upload HW as Word or PDF.
documents. You may take a picture of your handwritten HW and embed in Word. If you have an iPhone, you can use the “Notes” app to create a new note. Choose the camera icon and then select “Scan Documents”. This automatically saves all the scanned handwritten pages in a single PDF file. Please be considerate to the grader and double check that your uploaded scanned documents are readable. The lowest two HW scores will be dropped to accommodate missed HW due to illness and other unavoidable circumstances. You can discuss HW problems with others but the final writing must be your own. Plagiarism is unacceptable.

Due to time constraints the grader may grade only some of the assigned questions, but you are responsible for understanding all questions. Unless prior arrangements are made for reasons judged to be acceptable by me, late homework will receive zero credit. If there are grading errors those should be reported to the TA no later than a week after the HW grades are posted.

Exams
There will be two open book 50 minutes midterms and a two hour open book final exam. Even though they are open book exams, preparing a formula sheet (around one to two pages for midterms and two to four pages for final) will be useful so that you can refer to them quickly and finish the exams in the allotted time. You can consult your notes, book, videos etc. for exams but should not ask or collaborate with any other person. In short, the work must be completely your own. You will take the exam during a 50 minutes period of your choice on the day of the exam. The tentative plan is that the midterms will be available on ICON from 2 PM to 11 PM, on the day of the exam. Once you start, you will have 50 minutes to finish it.

If an exam is missed, a make-up exam will be permitted only if the circumstances of missing the exam satisfy university policies (documentation will be required in such a case). Grading errors should be reported no later than a week after the exams are graded. Following are tentative dates for the midterm exams.

<table>
<thead>
<tr>
<th>Exam</th>
<th>Date</th>
<th>Time</th>
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<tbody>
<tr>
<td>1. Midterm One:</td>
<td>Wednesday, October 7</td>
<td>50 minutes</td>
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<tr>
<td>2. Midterm Two:</td>
<td>Wednesday, November 11</td>
<td>50 minutes</td>
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<tr>
<td>3. Final:</td>
<td>TBA</td>
<td>2 hours</td>
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Attendance
Regular attendance (that is watching videos and attending discussions) is expected for effective learning. However, there are no attendance points for watching videos or attending discussions.
Absences and Attendance

Students are responsible for attending class and for contributing to the learning environment of a course. Students are also responsible for knowing their course absence policies, which will vary by instructor. All absence policies, however, must uphold the UI policy related to student illness, mandatory religious obligations, including Holy Day obligations, military service obligations, unavoidable circumstances, or University authorized activities. Students may use the CLAS absence form to aid communication with the instructor who will decide if the absence is excused or unexcused. The form is on ICON in the top banner under “Student Tools.” More information is at https://clas.uiowa.edu/students/handbook/attendance-absences.

Academic Integrity

All undergraduates enrolled in courses offered by CLAS have, in essence, agreed to the College’s Code of Academic Honesty. Misconduct is reported to the College, resulting in suspension or other sanctions, with sanctions communicated with the student through UI email. Visit this page for information: https://clas.uiowa.edu/students/handbook/academic-fraud-honor-code.

Accommodations for Disabilities

UI is committed to an educational experience that is accessible to all students. A student may request academic accommodations for a disability (such as mental health, attention, learning, vision, and physical or health-related condition) by registering with Student Disability Services (SDS). The student is then responsible for discussing specific accommodations with the instructor. More information is at https://sds.studentlife.uiowa.edu/.

Administrative Home of the Course

The College of Liberal Arts and Sciences (CLAS) is the administrative home of this course and governs its add/drop deadlines, the second-grade-only option, and related policies. Other colleges may have different policies. CLAS policies may be found here: https://clas.uiowa.edu/students/handbook.

Class Behavioral Expectations

Students are expected to comply with University policies regarding appropriate classroom behavior as outlined in the Code of Student Life. This includes the policies and procedures that all students have agreed to regarding the Steps Forward for Fall 2020 in response to the COVID-19 pandemic. Particularly, all students are required to wear a
face covering when in a UI building, including a classroom. In addition, the density of seats in classrooms has been reduced; in some instances, this will allow 6 feet or more between students while other cases, it may be less. Regardless, wearing a face covering and maintaining as much distance as possible are vital to slowing the spread of COVID-19. In the event that a student disrupts the classroom environment through their failure to comply with the reasonable directive of an instructor or the University, the instructor has the authority to ask that the student immediately leave the space for the remainder of the class period. Additionally, the instructor is asked to report the incident to the Office of Student Accountability for the possibility of additional follow-up. Students who need a temporary alternative learning arrangement related to COVID-19 expectations should contact Student Disability Services ([https://sds.studentlife.uiowa.edu/fall-2020/covid-19-temporary-learning-arrangements/](https://sds.studentlife.uiowa.edu/fall-2020/covid-19-temporary-learning-arrangements/); +1 319 335-1462)

**Class Recordings: Privacy and Sharing**

Some sessions of a course could be recorded or live-streamed. Such a recording or streaming will only be available to students registered for the course. These recordings are the intellectual property of the faculty, and they may not be shared or reproduced without the explicit written consent of the faculty member. Students may not share these sessions with those not in the class; likewise, students may not upload recordings to any other online environment. Doing so is a breach of the Code of Student Conduct and, in some cases, a violation of the Federal Education Rights and Privacy Act (FERPA).

**Communication and the Required Use of UI Email**

Students are responsible for official correspondences sent to their UI email address (uiowa.edu) and must use this address for all communication within UI ([Operations Manual, III.15.2](https://clas.uiowa.edu/students/handbook/student-rights-responsibilities)).

**Complaints**

Students with a complaint about an academic issue should first visit with the instructor or course supervisor and then with the Chair of the department or program offering the course; students may next bring the issue to the College of Liberal Arts and Sciences; see this page for more information: [https://clas.uiowa.edu/students/handbook/student-rights-responsibilities](https://clas.uiowa.edu/students/handbook/student-rights-responsibilities).

**Final Examination Policies**

The final exam schedule is announced around the fifth week of classes; students are responsible for knowing the date, time, and place of a final exam. Students should not make travel plans until knowing this information. No exams of any kind are allowed the week before finals with very few exceptions made (for labs, ESL and some world language courses, and off-cycle courses): [https://registrar.uiowa.edu/final-examination-scheduling-policies](https://registrar.uiowa.edu/final-examination-scheduling-policies).
Nondiscrimination in the Classroom

The University of Iowa is committed to making the classroom a respectful and inclusive space for people of all gender, sexual, racial, religious, and other identities. Toward this goal, students are invited in MyUI to optionally share the names and pronouns they would like their instructors and advisors to use to address them. The University of Iowa prohibits discrimination and harassment against individuals on the basis of race, class, gender, sexual orientation, national origin, and other identity categories set forth in the University’s Human Rights policy. For more information, contact the Office of Equal Opportunity and Diversity (https://diversity.uiowa.edu/eod [https://diversity.uiowa.edu/eod]; +1 319 335-0705).

Sexual Harassment

Sexual harassment subverts the mission of the University and threatens the well-being of students, faculty, and staff. All members of the UI community must uphold the UI mission and contribute to a safe environment that enhances learning. Incidents of sexual harassment must be reported immediately. For assistance, please see https://osmrc.uiowa.edu/