STAT:3510:BBB  Biostatistics  Fall 2019

Instructor: Prof. Joyee Ghosh

Contact Information:

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- Phone: (319)-335-0816
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Teaching Assistant: Mr. Rui Jin

Contact Information:

- Office: TBA

Time & Location: 2:30 - 3:20 PM MWF  1505 SC

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

Departmental Executive Officer: Prof. Kung-Sik Chang, 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 Office Hours: M 11:00-11:30 AM, 4:00-5:30 PM, W/F 11:00-11:30 AM, or by appointment.
TA Office Hours: TBA

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>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>Homework</td>
<td>15%</td>
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<tr>
<td>Two Midterm Exams</td>
<td>50%</td>
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<tr>
<td>Final Exam</td>
<td>35%</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>100%</strong></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: 50-60%, F: ≤50%. The A+ grade is rarely awarded.

- **Homework**
  Homework will be usually assigned on Wednesdays and due on the following Wednesday at the beginning of the class. Electronic copies of homework are not acceptable. Homework should be properly stapled, with name, discussion section, and HW number written at the top of the first page.
  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 as solutions will be posted soon after the homework is due. If there are grading errors those should be reported no later than a week after the graded HW are returned in discussions.

- **Exams**
  There will be two in-class midterms and a two hour final exam. Calculators may be used for exams, and any necessary statistical tables will be provided. You can bring one hand-written 8.5”x11” formula sheet (both sides) for each midterm exam and two hand-written 8.5”x11” formula sheets (both sides) for the final exam. 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 returned in discussions. Following
are tentative dates for the midterm exams.

<table>
<thead>
<tr>
<th>Exam</th>
<th>Date</th>
<th>Location</th>
<th>Time</th>
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<tbody>
<tr>
<td>1. Midterm One:</td>
<td>Wednesday, October 9</td>
<td>TBA</td>
<td>2:30-3:20 pm</td>
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<td>2. Midterm Two:</td>
<td>Wednesday, November 13</td>
<td>TBA</td>
<td>2:30-3:20 pm</td>
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<td>3. Final:</td>
<td>TBA</td>
<td>TBA</td>
<td>TBA</td>
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Attendance
Regular attendance at lecture and discussion is expected.

Classroom Environment
Activities which are unacceptable are (1) prolonged conversation with a fellow student, (2) talking on cell phones or texting, and (3) the use of laptops, tablets or anything with a wifi connection. Please turn off phones and put away laptops/tablets etc. when in class.
College of Liberal Arts and Sciences: Policies and Procedures

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, unavoidable circumstances, or University authorized activities (https://clas.uiowa.edu/students/handbook/attendance-absences). Students may use this absence form to aid communication; the instructor will decide if the absence is excused or unexcused:


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 the UI email address (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.

Communication and the Required Use of UI Email

Students are responsible for official correspondences sent to the UI email address (uiowa.edu) and must use this address for all communication within UI (Operations Manual, III.15.2).
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. For more information, see 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. Visit https://registrar.uiowa.edu/final-examination-scheduling-policies.

Nondiscrimination in the Classroom

UI is committed to making the classroom a respectful and inclusive space for all people irrespective of their gender, sexual, racial, religious or other identities. Toward this goal, students are invited to optionally share their preferred names and pronouns with their instructors and classmates. 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 (diversity.uiowa.edu).

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/.