STAT:3510:BBB Biostatistics Spring 2019

This syllabus is subject to change; the final version will be made available for enrolled students at the start of the semester.

Instructor: Prof. Joyee Ghosh

Contact Information:

- Office: 372 SH
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Teaching Assistant: TBA

Contact Information:

- Office: TBA

Time & Location: 12:30 - 1:20 PM MWF 1505 SC

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

Departmental Executive Officer: Joseph B. Lang, 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/.

Instructor Office Hours: MW 10:00-11:30 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.

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>
</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-: 77-80%, C+: 74-77%, C: 65-74%, 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 one hour evening 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.
Exam Date Location Time

1. Midterm One: Thursday, February 28 C20 PC 6:30-7:30 pm
2. Midterm Two: Thursday, April 11 C20 PC 6:30-7:30 pm
3. Final: TBA TBA TBA

To compensate for the extra time required for the two evening midterms there will be no class on: March 15 and April 12.

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

Administrative Home

The College of Liberal Arts and Sciences is the administrative home of this course and governs matters such as the add/drop deadlines, the second-grade-only option, and other related issues. Different colleges may have different policies. Questions may be addressed to 120 Schaeffer Hall, or see the CLAS Academic Policies Handbook at https://clas.uiowa.edu/students/handbook.

Electronic Communication

University policy specifies that students are responsible for all official correspondences sent to their University of Iowa e-mail address (@uiowa.edu). Faculty and students should use this account for correspondences. (Operations Manual, III.15.2, k.11.)

Accommodations for Disabilities

The University of Iowa is committed to providing an educational experience that is accessible to all students. A student may request academic accommodations for a disability (which includes but is not limited to mental health, attention, learning, vision, and physical or health-related conditions). A student seeking academic accommodations should first register with Student Disability Services and then meet with the course instructor privately in the instructor’s office to make particular arrangements. Reasonable accommodations are established through an interactive process between the student, instructor, and SDS. See https://sds.studentlife.uiowa.edu/ for information.

Academic Honesty

All CLAS students or students taking classes offered by CLAS have, in essence, agreed to the College’s Code of Academic Honesty: “I pledge to do my own academic work and to excel to the best of my abilities, upholding the IOWA Challenge. I promise not to lie about my academic work, to cheat, or to steal the words or ideas of others; nor will I help fellow students to violate the Code of Academic Honesty.” Any student committing academic misconduct is reported to the College and placed on disciplinary probation or may be suspended or expelled (see CLAS Academic Policies Handbook).

CLAS Final Examination Policies

The final examination schedule for each class is announced by the Registrar generally by the fifth week of classes. Final exams are offered only during the official final examination period. No exams of any kind are allowed during the last week of classes. All students
should plan on being at the UI through the final examination period. Once the Registrar has announced the date, time, and location of each final exam, the complete schedule will be published on the Registrar’s web site and will be shared with instructors and students. It is the student’s responsibility to know the date, time, and place of a final exam.

**Making a Suggestion or a Complaint**

Students with a suggestion or complaint should first visit the instructor, then the course supervisor, and then the departmental DEO. Complaints must be made within six months of the incident. See the CLAS Student Academic Handbook.

**Understanding 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 have a responsibility to uphold this mission and to contribute to a safe environment that enhances learning. Incidents of sexual harassment should be reported immediately. See the UI Comprehensive Guide on Sexual Harassment for assistance, definitions, and the full University policy.

**Reacting Safely to Severe Weather**

In severe weather, class members should seek appropriate shelter immediately, leaving the classroom if necessary. The class will continue if possible when the event is over. For more information on Hawk Alert and the siren warning system, visit the Public Safety web site.