

**The University of Iowa
The College of Liberal Arts and Sciences
Spring 2023**

Title of Course: STAT:3510:BBB

Course meeting time and place: 12:30-1:20 PM MWF 1505 SC

Department of Statistics and Actuarial Science: <https://stat.uiowa.edu>

Course ICON site: To access the course site, log into [Iowa Courses Online \(ICON\)](https://icon.uiowa.edu/index.shtml) <https://icon.uiowa.edu/index.shtml> using your Hawk ID and password.

Course Home:

For Undergraduate Courses: The College of Liberal Arts and Sciences (CLAS) is the home of this course, and CLAS governs the add and drop deadlines, the “second-grade only” option (SGO), academic misconduct policies, and other undergraduate policies and procedures. Other UI colleges may have different policies.

For Graduate Courses: The College of Liberal Arts and Sciences (CLAS) is the home of this course, and CLAS governs the policies and procedures for its courses. Graduate students, however, must adhere to the [academic deadlines set by the Graduate College](#).

Prerequisites: MATH:0100 or MATH:1005 or ALEKS score of 30 or higher

Instructor: *Professor Joyee Ghosh*

Office location: 372 SH

Student drop-in hours:

Monday and Friday: 10:30-11:30 AM by Zoom

Wednesday: 10:30-11:30 AM at 241B SH in person

Students are invited to drop by during these hours to discuss questions about the course material or concerns. I am available by appointment if you are unable to attend my drop-in hours.

Phone: 319-335-0816

E-mail: joyee-ghosh@uiowa.edu

DEO: Professor Kung-Sik Chan, **Office:** 241 SH, **Email:** kung-sik-chan@uiowa.edu

Teaching Assistant: *Ms. Yilin Wang*

Office Location: 257 SH

Student drop-in hours: **Tuesday and Thursday 9:00-10:30 AM in person**

E-mail: yilin-wang-1@uiowa.edu

Description of Course and Learning 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 1-2, 5-12, 14-18.

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://users.stat.umn.edu/~geyer/r.html#rweb> or R can be downloaded on your computer from <https://posit.co/download/rstudio-desktop/> and it is also available on computers in 41 SH.

Textbook/Materials:

Principles of Biostatistics (edition: 3rd) Required
ISBN: 9780367355807
Author: Pagano, Gauvreau, and Mattie

Academic Honesty and Misconduct:

All students in CLAS courses are expected to abide by the [CLAS Code of Academic Honesty](#). Undergraduate academic misconduct must be reported by instructors to CLAS according to [these procedures](#). Graduate academic misconduct must be reported to the Graduate College according to Section F of the [Graduate College Manual](#).

Student Complaints:

Students with a complaint about a grade or a related matter should first discuss the situation with the instructor and/or the course supervisor (if applicable), and finally with the Director or Chair of the school, department, or program offering the course.

Undergraduate students should contact [CLAS Undergraduate Programs](#) for support when the matter is not resolved at the previous level. Graduate students should contact the CLAS [Associate Dean for Graduate Education and Outreach and Engagement](#) when additional support is needed.

Drop Deadline for this Course:

You may drop an individual course before the deadline; after this deadline you will need collegiate approval. You can look up the [drop deadline for this course](#) here. When you drop a course, a "W" will appear on your transcript. The mark of "W" is a neutral mark that does not affect your GPA. Directions for adding or dropping a course and other registration changes can be found on the [Registrar's website](#). Undergraduate students can find policies on dropping and withdrawing [here](#). Graduate students should adhere to the [academic deadlines](#) and policies set by the Graduate College.

Homework assignments:

Homework will be usually assigned on Wednesdays and due on the following Wednesday via ICON. Homework should have 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 grades are posted. The two lowest homework scores will be dropped.

You can discuss homework assignments with me, your TA, or other students, but the final write-up should be from your own understanding. While assignments do not have to be type-written, please provide figures or R code, when applicable. To get full credit always show your work, not just the final answer.

Exams: There will be two midterm exams during class 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 (Tentative)	Location
Midterm-I	March 1	TBA
Midterm-II	April 12	TBA
Final	TBA	TBA

Attendance:

Regular attendance at lecture and discussion is expected.

Grading System and the Use of +/-:

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+: 70-75%, C: 65-70%, C-: 60-65%,
 D+: 55-60%, D: 52-55%, D-: 50-52%,
 F: less than 50%.

I may lower the cut-offs depending on the difficulty of the exam. The A+ grade is rarely awarded.

Course Grades:

Final course grades will be assessed based on the following:

- Homework assignments (15%)
- Two Midterm exams (25% each)
- Final exam (35%)
- Total 100%

Date and Time of the Final Exam:

The final examination date and time will be announced by the Registrar generally by the fifth week of classes and it will be announced on the course ICON site once it is known. **Do not plan your end of the semester travel plans until the final exam schedule is made public. It is your responsibility to know the date, time, and place of the final exam.** According to Registrar's final exam policy, students **have a maximum of two weeks after the announced final exam schedule** to request a change if an exam conflict exists or if a student has more than two exams in one day (see the [policy](#) here).

Calendar of Course Assignments:

A tentative list of reading assignments is available on ICON -> Modules -> Reading.

College of Liberal Arts and Sciences (CLAS) Course Policies:**[Attendance and Absences](#)**

University regulations require that students be allowed to make up examinations which have been missed due to illness or other unavoidable circumstances. Students with mandatory religious obligations or UI authorized activities must discuss their absences with me as soon as possible. Religious obligations must be communicated within the first three weeks of classes.

Barring illness and family emergencies, credit will not be given for late work. If you have to miss a class, please read the material covered on that day before coming to the next class. This will help you get the most out of lectures.

[Exam Policies](#)**Communication: UI Email**

Students are responsible for all official correspondences sent to their UI email address (uiowa.edu) and must use this address for any communication with instructors or staff in the UI community.

Other Expectations of Student Performance

Activities which are unacceptable are (1) prolonged conversation with a fellow student, (2) the use of cell phones, and (3) the use of laptops/tablets etc. in class.

Please remember to switch your phones to silent mode before class starts and put away laptops/tablets/phones etc. when in class. If you are using a laptop/tablet to take notes, that is acceptable.

Where to Get Help

Tutor Iowa: <https://tutor.uiowa.edu>

University Policies

[Accommodations for Students with Disabilities](#)

[Basic Needs and Support for Students](#)

[Classroom Expectations](#)

[Exam Make-up Owing to Absence](#)

[Free Speech and Expression](#)

[Mental Health](#)

[Military Service Obligations](#)

[Non-discrimination](#)

[Religious Holy Days](#)

[Sexual Harassment/Misconduct and Supportive Measures](#)

[Sharing of Class Recordings](#)