

**The University of Iowa
The College of Liberal Arts and Sciences
Spring 2025**

Title of Course: *STAT:3510:BBB Biostatistics*

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 \(ICON\)](#) 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, 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, Wednesday and Friday: 11:00-11:30 AM in 372 SH

Wednesday: 2:00-3:30 PM in 372 SH

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: 319-335-0816E-mail: joyee-ghosh@uiowa.edu

DEO: Professor Kung-Sik Chan, Office: 241 SH

Email: kung-sik@chan@uiowa.edu

Teaching Assistant: *Mr. Shamriddha De*

Office Location: 350 SH

Student drop-in hours: Tuesday and Thursday 1:30-3:00 PM

E-mail: shamriddha-de@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, 5-18.

Computing:

You will mainly use your calculators for this course. Any standard calculator is permitted but the calculators on your phones cannot be used during exams.

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 [college's standards 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 DEO (Chair) of the department, school or program offering the course. Sometimes students will be referred to the department or program's Director of Undergraduate Studies (DUS) or Director of Graduate Studies (DGS).

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 Dean's Office](#) when additional support is needed.

Drop Deadline for this Course:

You may drop an individual course before the drop 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. To discuss how dropping (or staying in) a course might affect your academic goals, please contact your Academic Advisor. 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 CLAS courses [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, to get full credit please 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.

The midterm exams will be in the weeks of March 5, 2025 and April 16, 2025, or in the weeks before those, tentatively.

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%

Final course grades for PhD students in Genetics will be assessed based on the following:

- Two Midterm exams (30% each)
- Final exam (40%)
- 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 the 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 scheduled for the same day (see the [policy](#) here).

Calendar of Course Assignments and Exams:

A tentative list of reading assignments is available on ICON -> Modules -> Reading. A list of exams with dates is available on ICON -> Modules → Syllabus.

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.

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

University regulations require that students be allowed to make up examinations that have been missed due to illness, religious holy days, military service obligations (including service-related medical appointments), or other unavoidable circumstances or University-sponsored activities. Students with UI-authorized activities must discuss their absences with the instructor as soon as possible. Religious obligations must be communicated within the first three weeks of classes.

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. For the privacy and the protection of student records, UI faculty and staff can only correspond with UI email addresses.

Where to Get Academic Support for this Course

Tutor Iowa central academic support site: <https://tutor.uiowa.edu/>.

Mental Health Resources and Student Support

Students are encouraged to be mindful of their mental health and seek help as a preventive measure or if feeling overwhelmed and/or struggling to meet course expectations. Students are encouraged to talk to their instructor for assistance with course-related concerns. For additional mental health support, please see the guidance and resources at mentalhealth.uiowa.edu, including the 24-7 [UI Support and Crisis Line](#).

Additionally, the Office of the Dean of Students can help students navigate personal crisis situations. They can provide one-on-one support, help with identifying options, and access to [basic needs resources \(such as food, rent, childcare, etc.\)](#). Student Care and Assistance: 132 IMU, dos-assistance@uiowa.edu, or 319-335-1162 and more info: dos.uiowa.edu/assistance

University Policies

Accommodations for Students with Disabilities

The University is committed to providing an educational experience that is accessible to all students. If a student has a diagnosed disability or other disabling condition that may impact the student's ability to complete the course requirements as stated in the syllabus, the student may seek accommodations through [Student Disability Services](#) (SDS). SDS is responsible for making [Letters of Accommodation \(LOA\)](#) available to the student. **The student must provide an LOA to the instructor as early in the semester as possible, but requests not made at least two weeks prior to the scheduled activity for which an accommodation is sought may not be accommodated.** The LOA will specify what reasonable course accommodations the student is eligible for and those the instructor should provide.

Free Speech and Expression

Absences for Religious Holy Days

Classroom Expectations

Non-discrimination

Sexual Harassment/Misconduct and Supportive Measures

Sharing of Class Recordings (if appropriate)