

Stat 1010: Statistics and Society

Lecture location: Due to COVID-19, this is a blended course. Main lecture material will be recorded and posted at the start of the week. I will record them in smaller sections (20 - 30 minutes each) based on the topic. You can watch them at your convenience, but I would recommend staying current with the material. During Friday's class from 1:30 - 2:20 we will have a live session over Zoom where I will take questions and clarify material from the past week.

Discussion: Discussion sections will be live over Zoom. In discussion section you will work on additional problems and extra examples that reinforce the main lecture videos. Our TA, Xun Li, will run the discussions.

Instructor: Professor Colin Lewis-Beck

Office: 256 Schaeffer Hall

Email: colin-lewis-beck@uiowa.edu

Zoom office hours: Monday 3:30 - 5 PM, Tuesday 9:00 - 10:30 AM

Teaching assistant: Xun Li

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Zoom office hours: TBD

Grader: Haiyang Zhu

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DEO: Dr. Kung-Sik Chan, 241 Schaeffer Hall, 319-335-0712

Prerequisites: Math 1860 or 1560

Course description: This course is intended to introduce the student to the fundamental concepts of statistics, as well as, provide the student with reasoning skills that can be applied to statistical information that may be encountered on a daily basis. Students should learn how to draw conclusions from analyses and also communicate analysis results.

Text: The required textbook for this class is: Bennett, Briggs, and Triola (2018). *Statistical Reasoning for Everyday Life, 5th edition*, Pearson.

Course webpage: ICON (<http://icon.uiowa.edu>) has course information, notes, assignments, solutions, exam preparation materials, and access to grades.

Assessment: Your final course grade is computed based on the following proportions:

- 25% Homework
- 5% Discussion
- 40% Two in-semester exams
- 30% Final exam

Homework: Ten homework assignments will be assigned throughout the semester. Late homework submissions will **not** be accepted unless permission to turn in the homework late has been granted by the

instructor prior to the due date. Such permission will be given at the discretion of the instructor and will only be given in extraordinary circumstances. The worst homework score will be dropped. Homework is to be completed and submitted individually. Group work is encouraged but all answers must be unique to the student.

Submitting Homework: Because of COVID-19, all homework will be submitted through ICON. In order for the homework to be graded you **must** upload the assignment as a pdf document.

Participation: Five percent of your grade comes from Discussion Section, which will be determined by the TA.

In-semester exams: There will be two in-semester exams, each of the two worth 20% of your final course grade. The tentative dates for these exams are March 5 (Friday), April 16 (Friday), but these dates are subject to change. The exams will be take home and open book/open note. They will be posted on Friday and due the following Monday on ICON.

Final exam: The final exam will also be a take home exam. It will be posted during finals week.

Email Etiquette:

- Check the syllabus/announcements/slides before emailing; try to figure things out yourself first.
- Start your email by addressing me (Dear/Hi Professor Lewis-Beck).
- Be clear and concise.
- Use correct spelling and proper grammar.
- Be polite when making requests - do not make demands.
- End your email with a closing and your name.

Dates of Interest:

January 25: First day of class

March 5: Exam 1

April 14: No class (official non-instruction day per the University)

April 16: Exam 2

TBD: Final exam

Tentative Course Topics:

Week	Topics
1	Sampling Techniques & Types of Studies (Chapter 1)
2	Sampling Techniques & Types of Studies (Chapter 1)
3	Measurement, Data Types, & Dealing with Errors (Chapter 2)
4	Measurement, Data Types, & Dealing with Errors (Chapter 2)
5	Visual Displays of Data, Statistical Graphics (Chapter 3)
6	Visual Displays of Data, Statistical Graphics (Chapter 3)
7	Describing Data (Chapter 4)
8	Describing Data (Chapter 4)
9	Normal Distribution (Chapter 5)
10	Normal Distribution (Chapter 5)
11	Probability in Statistics (Chapter 6)
12	Probability in Statistics (Chapter 6)
13	Correlation (Chapter 7)
14	Sampling Distributions (Chapter 8)
15	Sampling Distributions (Chapter 8)

UI and the College of Liberal Arts and Sciences Information for Undergraduates

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 COVID19. 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/>;
+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).

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>.

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>.

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>; +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/>.