STAT:1020:0100/PSQF:1020:0100
Elementary Statistics and Inference
Spring 2017 - evening class

Instructor: M. Russo, 269 SH, 353-2295, mary-russo@uiowa.edu

Class Time/Location: Eve Class (Sec 0100) Wed., 5:30 PM - 8:30 PM, 40 SH

Office Hours: Tues. 10:30 AM - 12:30 PM, Wed. 2:30 PM – 3:20 PM, and by appointment. Occasionally, hours may be rescheduled to accommodate students who wish to attend -- announcements of changes will be made in class and posted on the instructor’s door (269 SH). Students seeking office-hour help are expected to have excellent attendance in the lectures and discussions.

Communication: Students should use only their University of Iowa email address, when corresponding with me via email.

Approved GE: Quantitative or Formal Reasoning. Courses approved in this area have as their primary purpose the development of the analytical powers of the student as they might be exercised in the presentation and evaluation of mathematical or other formal symbolic systems.

Course Objectives: This course introduces the major ideas of probability and statistics. Topics include descriptive statistics, the normal distribution, correlation and regression, elements of probability, chance error, expectation, standard error, sampling, logic of statistical inference, confidence intervals & hypothesis tests.

Prerequisite: MATH:0100 or MATH:1005 or equivalent
Students should be comfortable with math at the level of elementary algebra (e.g., equation of a straight line, plotting points, taking powers & roots, percentages).


Additional course materials will be posted in CANVAS content. Students are required to print out these materials & bring them to class and discussions, as needed.

The Lectures: Topics from the text will be covered. Some additional material will be covered. Notation, theory, problems, and procedures will be explained in detail. Notes should be taken. Bring your printed course materials from CANVAS, and a calculator. Note that restrictions concerning calculators will be announced.

Attendance is required. A record of attendance will be made. Illness/injury is a legitimate reason to miss class; feeling a little under the weather is not. Note that a missed class is equivalent to a missed week and absences usually lead to lower scores on quizzes and exams.

The classroom environment: Students have the right to a classroom environment that encourages learning. Arriving late or leaving early or conversing with
Fellow students during the lecture is discourteous and distracting to the instructor and to fellow students. The learning environment is diminished when students engage in inappropriate classroom behavior such as reading newspapers or other non-class material, working on homework, using a cell phone, and using personal computers for non-class purposes such as web-surfing and facebook. More information concerning student rights and responsibilities in the classroom can be found at http://clas.uiowa.edu/students/handbook

Homework assignments will consist of online and supplemental problems.

The online problems and due dates will be posted on MY STAT LAB. These problems must be completed and submitted using MY STAT LAB.

Supplemental assignments and due dates will be posted on CANVAS. These assignments will be collected at the beginning of class, on the due date.

For each supplemental problem, show the necessary work and clearly indicate your answer. Include enough detail to demonstrate your method for finding the answer. Sketches and graphs are helpful. Please use a dark pencil (#2) or a black or blue pen.

Supplemental problems MUST BE completed directly on the pages printed from CANVAS.

Each supplemental assignment MUST include your name as it appears on CANVAS, date, and section number, printed in INK, in the top right hand corner. In addition, you may include your preferred name or nickname in parentheses. Please DO NOT write your student ID number on your homework papers.

Working Together on Homework: You are encouraged to study, discuss, and work on homework problems with others. However, you are required to complete and submit the online homework ON YOUR OWN. And, you are required to write the solutions to supplemental problems ON YOUR OWN, rather than copying the work of others.

Late Homework: Online homework must be submitted on time, for full credit. The points earned for online problems submitted late, but not more than 24 hours late, will be subject to a 50% reduction. Online homework submitted more than 24 hours late will not be accepted.

Supplemental homework is officially due at the beginning of class on the due date. Supplemental homework submitted after that time, but prior to 3 PM of the Friday following the due date, is subject to a 50% penalty. Supplemental homework submitted after that time, but prior to 3 PM of the Monday following the due date, is subject to a 75% penalty. All other submissions are subject to a 100% penalty.

If you are unable to make it to class on a supplemental homework due date, you should arrange to have your homework delivered on time (that is, by the beginning of the class on the due date). Please note that supplemental homework will NOT be accepted electronically.
Quizzes (approximately 5), lasting about 15 minutes each, will be given during the class. Quiz dates and topics will be announced in class, the week before. Quizzes are "closed book" and consist of several "show your work" type problems. For each student, the lowest quiz score will be dropped.

Exams will be "closed book" and multiple choice (or a combination of "show your work" and multiple choice.) For some of the exams, a small note sheet may be used. Details concerning note sheets and other exam policies, will be announced in class, one week before an exam.

The exams will cover material from the lectures, textbook, and handouts.

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<thead>
<tr>
<th>Exam</th>
<th>Date</th>
<th>Time</th>
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<tbody>
<tr>
<td>#1</td>
<td>Wednesday, February 22</td>
<td>(during class)</td>
</tr>
<tr>
<td>#2</td>
<td>Wednesday, April 5</td>
<td>(during class)</td>
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Cumulative Final Exam DATE/TIME/ROOM(S) to be announced

The final exam will be held during finals week, as scheduled by the university. My UI and the Registrar's webpage have links to the final exam schedule: http://www.registrar.uiowa.edu/default.aspx

Any changes in the exam schedule will be announced in class and/or by email.

Exam Protocol: About one week before an upcoming exam, a memo containing information about the exam will be posted on CANVAS or given out in class. TA review sessions will be held. Attendance at the review sessions is optional.

Single-purpose calculators only (no smart devices) are to be used during quizzes and exams. Restrictions on calculators will be announced. Sharing calculators in NOT allowed. Students should not talk to other students during the exams. If you leave an exam early, you risk missing a clarification, hint, or correction.

When you leave an exam, your question paper, math tables, scrap paper (which will be given with the exam), note sheet (if allowed), and bubble sheet (if given with the exam), MUST be handed directly to the instructor or proctor. Then, your University of Iowa ID card must be presented. You must wait for an "OK" before leaving.

Cheating in all forms is taken very seriously. Cheating could result in the assignment of an "F" grade and disciplinary action by the college and/or university.

Absences and Make-ups: If you know that you will miss a quiz or exam, or if something unexpected comes up (emergency, illness, etc.) please let me (instructor) know as soon as possible prior to the exam, and we will discuss your situation and possibly schedule a make-up. Please be prepared to show documentation of your situation. Not all situations are university approved. Additional information concerning the policy on missed exams and class work can be found at http://clas.uiowa.edu/students/handbook

Grading: The course grade will be calculated using the following weights: attendance = 2%, HW = 8%, quizzes = 10%, exam 1 = 25%, exam 2 = 25%, final = 30%
The final course percent is a weighted sum of attendance, HW, quiz, midterm, and final exam grades:

\[
\text{Course } \% = (\text{attendance fraction})(2\%) + (\text{Homework fraction})(8\%) + (\text{quiz frac})(10\%) + (\text{E1 frac})(25\%) + (\text{E2 frac})(25\%) + (\text{final frac})(30\%)
\]

As a rough guide, 90-100\%=A- to A+, 80-90\%=B- to B+, 65-80\%=C- to C+, 50-65\%= D- to D+

Throughout the semester, grades will be recorded on CANVAS. If you feel that a grade you have received on a paper or on CANVAS is incorrect, and you wish to have your paper reviewed, you must contact the instructor and resubmit the paper within 8 days of the first day that the relevant paper was made available in class or the relevant grade was posted on CANVAS.

**Help** is available during instructor office hours and TA review sessions. The Statistics Tutorial Lab is open to all students enrolled in the class; the Lab will post open hours for drop-in sessions. Students sometimes hire independent tutors. A list of tutoring resources is kept on the Statistics Dept. homepage: [http://www.stat.uiowa.edu/resources/tutoring](http://www.stat.uiowa.edu/resources/tutoring)

Note that for qualified students, tutoring may be available through The Center for Diversity and Enrichment: [http://diversity.uiowa.edu/cde](http://diversity.uiowa.edu/cde)

**Information for students with disabilities:** I would like to hear from anyone who has a disability which may require seating modifications or testing accommodations or accommodations of other class requirements, so that appropriate arrangements may be made. Please contact me during my office hours or by email.

**Departmental Home:** The Department of Statistics and Actuarial Science is the departmental home of this course. The department office is in 241 SH, phone 335-0712, web address: [http://www.stat.uiowa.edu/](http://www.stat.uiowa.edu/)

The Department Executive Officer (DEO) is Professor Lang, 241 SH, phone 335-0712, [joseph-lang@uiowa.edu](mailto:joseph-lang@uiowa.edu)

**Teaching Policies & Resources - College of Liberal Arts - Syllabus Insert**

**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 [http://clas.uiowa.edu/students/handbook](http://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 [http://sds.studentlife.uiowa.edu/](http://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 ([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 with the instructor (and the course supervisor), and then with the departmental DEO. Complaints must be made within six months of the incident ([CLAS Academic Policies 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 [Office of the Sexual Misconduct Response Coordinator](#) 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 [Department of Public Safety website](#).