



STAT: 1010 – Statistics and Society

Fall, 2017

MWF 12:30P – 1:20P W151 **PBB**

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Office Location: SH 256

Office Hours: MWF 10:30A – 11:30A

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Department

Statistics and Actuarial Science, 241 SH

DEO

Prof. Lang, 241 SH, 335-0712

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## Course Description:

This course focus on the fundamental concepts of statistics. Students are expected to learn the reasoning skills that can be applied to statistical information that may be encountered on a daily basis. Also, students are expected to learn how to draw conclusions from analyses and also communicate analysis results. This course is approved for General Education in the Quantitative and Formal Reasoning category.

## Course Webpage:

log into ICON at <https://icon.uiowa.edu>. Check the "Announcements" page and the "Modules" page regularly for updates.

## Tutorial Lab:

Students can get additional help at the Statistics Tutorial Lab, located in University Library Commons, Room 1113 Red. The tutorial lab schedule can be found at <https://stat.uiowa.edu/resources/tutoring>

**Textbook:** *Statistical Reasoning for Everyday Life*, 4<sup>th</sup> Edition

**Authors:** Bennett, Briggs and Triola

## Course Policies:

- **General**

- Students are expected to learn how to input data and do some analyses using the statistical software package *Minitab*. Minitab is available in the campus computer labs and at <http://virtualdesktop.uiowa.edu>.
- A calculator is highly recommended. Calculators that have capabilities beyond the standard graphing calculator will not be allowed on exams.

- **Attendance and Absences**

- Attendance is expected and will be taken at random dates. You are allowed to miss **1** class during the semester without penalty. Any further absences will result in point and/or grade deductions.
- If you must miss class due to illness or other valid excuse, please send the instructor an email with explanation prior to the class date/time.
- Students are responsible for all missed work, regardless of the reason for absence. It is also the absentee's responsibility to get all missing notes or materials.

- **Homeworks and Quizzes**

- Students are encouraged to study with others. But submitted work must reflect independently write up using students own words.
- Students are expected to show all work to get full points.
- No late homework will be accepted, only as required by university policy: “academic conflicts, family emergencies or medical reasons (you must have documentation)”.
- No makeup quizzes will be given. The lowest quiz score for the semester will be dropped.

- **Exams**

- There will be two midterm exams and one final exam. Only final exam will be comprehensive and every student must take it.
- Missed exams may be made up only with documentation of reasons required by university policy
- For each exam (including the final) you are allowed one 8½ by 11 sheet of paper with whatever you wish to hand-write on it front and back (everything must be handwritten, no photocopies).

Midterm 1    September 22 (tentative date)

Midterm 2    October 27 (tentative date)

Final        TBA by the University.

## Grade Distribution:

Discussion	5%
Quizzes	10%
Homeworks	20%
Midterms	40% (20% each)
Final Exam	25%

## Letter Grade Distribution:

90% or above	A
80%–89.9%	B
70%–79.9%	C
60%–69.9%	D
below 60%	F

## 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/forinformation>.

### Nondiscrimination in the Classroom

The University of Iowa is committed to making the classroom a respectful and inclusive space for all people irrespective of their gender, sexual, racial, religious or other identities. Toward this goal, students are invited to optionally share their preferred names and pronouns with their instructors and classmates. 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, [diversity@uiowa.edu](mailto:diversity@uiowa.edu), or visit [diversity.uiowa.edu](http://diversity.uiowa.edu).

## **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](#).

## Tentative Course Outline:

The weekly coverage might change as it depends on the progress of the class. However, you must keep up with the reading assignments.

Week	Content
Week 1	<ul style="list-style-type: none"><li>• Chapter 1</li><li>• Sampling Techniques, &amp; Types of Studies</li></ul>
Week 2	<ul style="list-style-type: none"><li>• Chapter 1</li><li>• Sampling Techniques, &amp; Types of Studies</li></ul>
Week 3	<ul style="list-style-type: none"><li>• Chapter 2</li><li>• Measurement, Data Types, &amp; Dealing with Errors</li></ul>
Week 4	<ul style="list-style-type: none"><li>• Chapter 2</li><li>• Measurement, Data Types, &amp; Dealing with Errors</li></ul>
Week 5	<ul style="list-style-type: none"><li>• Chapter 2</li><li>• Measurement, Data Types, &amp; Dealing with Errors</li></ul>
Week 6	<ul style="list-style-type: none"><li>• Chapter 3</li><li>• Visual Displays of Data, Statistical Graphics</li></ul>
Week 7	<ul style="list-style-type: none"><li>• Chapter 3</li><li>• Visual Displays of Data, Statistical Graphics</li></ul>
Week 8	<ul style="list-style-type: none"><li>• Chapter 4</li><li>• Describing Data</li></ul>
Week 9	<ul style="list-style-type: none"><li>• Chapter 4</li><li>• Describing Data</li></ul>
Week 10	<ul style="list-style-type: none"><li>• Chapter 5</li><li>• Normal Distribution</li></ul>
Week 11	<ul style="list-style-type: none"><li>• Chapter 6</li><li>• Probability in Statistics</li></ul>
Week 12	<ul style="list-style-type: none"><li>• Chapter 6</li><li>• Probability in Statistics</li></ul>
Week 13	<ul style="list-style-type: none"><li>• Chapter 7</li><li>• Correlation</li></ul>
Week 14	<ul style="list-style-type: none"><li>• Chapter 8</li><li>• Sampling Distributions</li></ul>
Week 15	<ul style="list-style-type: none"><li>• Chapter 8</li><li>• Sampling Distributions</li></ul>