

Florida Stat University
Department of Statistics
STA1013 Statistics Through Examples - Section 9
Spring 2015
Syllabus

Instructor: Xue (Sue) Huang

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Lectures: MW 3:35pm - 4:50pm HCB 312
 (3 credit hours)

Office Hours: MW 12:30 - 2:30pm in Room OSB208B or by appointment.

Required Materials:

1. **Textbook:** Bennett, Briggs and Triola: Statistical Reasoning for Everyday Life, 4th edition.
ISBN: 0321890132
2. Calculator with statistical functions.
3. No wireless devices such as a cell phone or PADs may be used.

Blackboard:

1. Blackboard web-based tool will be used in this class. The website is used to post notes, homework, announcements and your grades.
2. You are responsible for homework and announcements posted on Blackboard, as well we those sent through your FSU email.
3. Blackboard postings should **not** be used as a substitute for class attendance.

Liberal Studies for the 21st century:

The Liberal Studies for the 21st Century Program at Florida State University builds an educational foundation that will enable FSU graduates to thrive both intellectually and materially and to support themselves, their families, and their communities through a broad and critical engagement with the world in which they live and work. Liberal Studies offers a transformative experience; this course has been approved as meeting the Liberal Studies requirements and thus is designed to help you become a critical analyzer of quantitative and logical claims.

In order to fulfill the State of Floridas College mathematics and computation requirement the student must earn a C or better in the course.

Course Description:

This course provides students with a background in applied statistical reasoning. Fundamental topics are covered including *graphical and numerical description of data, understanding randomness, central tendency, correlation versus causation, line of best fit, estimation of proportions, and statistical testing.*

Statistical thinking, relevant ideas, themes, and concepts are emphasized over mathematical calculation. In this class students learn many of the elementary principles that underlie collecting data, organizing it, summarizing it, and drawing conclusions from it.

Course Objectives:

By the end of the course, students will demonstrate the ability to:

1. Analyze and address problems drawn from real world scenarios by applying appropriate mathematical, statistical, logical, and/or computational models.
2. Interpret and evaluate data and information as presented in a variety of modes (such as tables, graphs, and charts), using appropriate technology. They will also be able to clearly communicate a summary of their findings to peers.

The above two competencies will be assessed in the L.S. Quantitative Assessment for STA 1013, which includes a written summary of results.

3. Apply sound concepts of sample selection and experimental design in producing data.
4. Use statistical thinking in the context of work processes, academic endeavors, and everyday life.
5. Describe how inferential statistical methods are used to make valid judgments based on the data.
6. Evaluate the validity of statistical results with skepticism based on sensible considerations.

Examination:

1. There will be two in-class one hour and fifteen exams, each one worth 150 points, and a final exam worth 200 points.
2. You may use a handwritten formula sheet which will be collected along with your paper: **one letter-size $8\frac{1}{2}'' \times 11''$ two-sided self-handwritten self-planned sheet with your name on it.**
3. You may use calculator, but may not share your calculator with anyone while you are still working on your paper.
4. Communication of any kind is not permitted so please do not ask anyone for explanations or assistance.
5. Graded papers will not be returned to you, contact me if you wish to view your graded paper.
6. No test grade will be dropped.

Pop-quiz:

1. There will be 12 close book pop-quiz, each one worth 10 points.
2. You could drop two of the lowest grades, and 10 quiz grades are counted.

Activity:

1. There will be two activities, you are not required but highly recommended to attend the activities.
2. 2.5 extra points will be awarded per participation.

Make-up policy:

1. **NO make-up pop-quiz.**
2. **Make-up exams will be offered in this course only in the case of serious and unavoidable circumstances**, such as a death in the family or treatment of an injury/illness at a medical facility and can only be granted by the instructor.
3. Mismanagement of resources is **not** grounds for an excused absence, such as running out of gas, oversleeping, or computer problems at the last minute.
4. Only if your request to take a make-up examination is presented to your instructor before the exam is given to the class.
5. Make-ups must be completed **within one week** of the missed assignment, and **official documentation for the absence must be provided.**
6. If this condition is **not** satisfied, it is understood that the opportunity to take a make-up exam is voided and the missed exam will be graded as a zero.

Final Exam Schedule:

Two Mid-Exams:

Feb 9 (Monday), Mar 18 (Wednesday), in class

Final Exam:

May 1 (Friday) 3:00pm-5:00pm HCB 312

Homework: Homework problems for each chapter covered in lecture will be posted on Blackboard. It is the responsibility of the student to remain current. Homework problems will not be collected, but very similar problems may appear on the quizzes and exams.

Grade Policy: Grade Composition:

Mid-Exam 1: 150 points

Mid-Exam 2: 150 points

Final-Exam: 200 points

Pop-quiz: 100 points

Total: 600 points

Aside: In order to encourage your innovative ideas and answers, I will give the *Griffindor Points* 1-3 points for the challenging problems I assign in class. The maximum *Griffindor points* for each person in this semester is 25 points.

Table 1: Total Points Obtained

A: 558-600	A-: 540-557	
B+: 522-539	B: 498-521	B-: 480-497
C+: 462-479	C: 438-461	C-:420-437
D+: 402-419	D: 378-401	D-:360-377
F: 0-359		

Attendance: As university regulations, first day attendance is mandatory. After that, attendance is not required, but highly encouraged. Keep in mind that quizzes and exams are highly dependent on the content covered during class, and you may find it difficult to obtain a good grade on a quiz if you miss lecture.

Classroom Policies: The classroom environment is an important factor for effective learning. In order not to distract or cause interruption in the attention of other students, please follow the following policies, in addition to all University policies:

- Turn off all audible alarms (cell phones, pagers, watches, etc.). Using cell phones in class shows a lack of respect and gives suspicions of cheating.
- **Please come on time to class.** Opening and closing the door in the middle of class is distracting to both the students and the teacher.
- Please do not talk or distract others during lecture.
- Please show respect for everyone in the classroom. I promise to give you the same measure of respect that I expect from you.

Extra Helps:

- Do not hesitate to come to my office during office hours or by appointment to discuss a homework problem or any aspect of the course.
- If your schedule conflicts with my office hours, you can make an appointment.
- You may also ask me questions by e-mails at *xhuang@stat.fsu.edu*.

University Attendance Policy: Excused absences include documented illness, deaths in the family and other documented crises, call to active military duty or jury duty, religious holy days, and official University activities. These absences will be accommodated in a way that does not arbitrarily penalize students who have a valid excuse. Consideration will also be given to students whose dependent children experience serious illness.

Academic Honor Policy: The Florida State University Academic Honor Policy outlines the University's expectations for the integrity of students' academic work, the procedures for resolving alleged violations of those expectations, and the rights and responsibilities of students and faculty members throughout the process. Students are responsible for reading the Academic Honor Policy and for living up to their pledge to “. . . be honest and truthful and . . . [to] strive for personal and institutional integrity at Florida State University.” (FSU Academic Honor Policy, found at <http://dof.fsu.edu/honorpolicy.htm>.)

Students with Disabilities: Students with disabilities needing academic accommodation should:

- Register with and provide documentation to the Student Disability Resource Center; and
- bring a letter to the instructor indicating the need for accommodation and what type.

This should be done during the first week of class. For more information about services available to FSU students with disabilities, contact the:

Student Disability Resource Center
97 Woodward Avenue, South, 108 Student Services Building
Florida State University, Tallahassee, FL 32306-4167
(850) 644-9566 (voice) (850) 644-8504 (TDD)
sdrc@admin.fsu.edu
<http://www.disabilitycenter.fsu.edu/>

Syllabus Change Policy:

Except for changes that substantially affect implementation of the evaluation (grading) statement, this syllabus is a guide for the course and is subject to change with advance notice. I reserve the right to change the syllabus at any time.

Table 2: Tentative Schedule: Spring 2015

	Monday	Wednesday
Week 1	No Class	Jan 7: Syllabus, 1.1
Week 2	Jan 12: 1.2, 1.3	Jan 14: 2.1
Week 3	Jan 19: MLK, No Class	Jan 21: 2.2, 2.3
Week 4	Jan 26: Activity 1	Jan 28: Chapter 3, 4.1
Week 5	Feb 2: 4.2, 4.3	Feb 4: 4.3
Week 6	Feb 9: Exam 1(in class)	Feb 11: 5.1
Week 7	Feb 16: 5.2	Feb 18: 5.2, 5.3
Week 8	Feb 23: 6.1	Feb 25: 6.2
Week 9	Mar 2: 6.3, 7.1	Mar 4: 7.1, 7.2
Week 10	Mar 9: Spring Break, No Class	Mar 11: Spring Break, No Class
Week 11	Mar 16: 7.2, 7.3	Mar 18: Exam 2(in class)
Week 12	Mar 23: 8.1	Mar 25: 8.2
Week 13	Mar 30: Activity 2	Apr 1: 8.3
Week 14	Apr 6: 9.1	Apr 8: 9.1
Week 15	Apr 13: 9.1, 9.2	Apr 15: 9.2
Week 16	Apr 20: 9.2	Apr 22: 9.3
Week 17(Final week)	Apr 27: No Class	Apr 29: No Class

Note: Final Exam is scheduled on May 1st (Friday): 3:00pm-5:00pm in HCB 312.