



STA 1013 Spring 2021  
Department of Statistics  
Florida State University

## **STA 1013: Statistics Through Example**

*Spring 2021 – Sections 0003 & 0004*

*3 credit hours*

### **Course Information**

Instructor: Shengjie Jiang

Email: [sjiang2@fsu.edu](mailto:sjiang2@fsu.edu)

Office Hours: on Zoom, class time or by appointment. Please email me to set up a meeting.

Office Location: OSB 329A

Section 3:

Class Time: Mon, Wed, Fri 1:20pm ~ 2:10pm

Classroom: HCB 310

Section 4:

Class Time: Mon, Wed, Fri 3:05pm -3:55pm

Classroom: HCB 312

### **Required Course Resources**

Prerequisite: None.

Textbook: There is no required textbook for this class. I will post 8 sets of notes online. These notes will take the place of a textbook.

References: Statistical Reasoning for Everyday Life, Fifth Edition 2018, by Bennet Briggs Triola, Publisher: Pearson

Computer and Network: A personal computer, reliable internet connection, and Chrome or Firefox browser.

Required Materials: TI-84 Plus or equivalent calculator is required. Cell phones are not permitted as calculators during quizzes.

### **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.

### **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.

### **Learning Objectives**

This course has been approved to meet FSU's **Liberal Studies Quantitative and Logical Thinking** requirements and is designed to help you become a critical analyst of quantitative and logical claims. **In order to fulfill the State of Florida's College mathematics and computation requirement the student must earn a "C-" or better in the course.**



By the end of the course, students will:

(1) Select and apply appropriate methods (i.e., mathematical, statistical, logical, and/or computational models or principles) to solve real-world problems.

(2) Use a variety of forms to represent problems and their solutions.

The above two competencies will be assessed in the Liberal Studies Quantitative Assessment for STA 1013, which includes a 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.

### Lecture Videos

Watching the lecture videos is equivalent to attending class and listening to lectures. We acknowledge that the lecture videos are not short, but remember that class time would have been 50 or 75 mins – not short either. On the bright side, however, you may pause the video at any time and return to it later - you would not have been able to do that with live lectures. Therefore, we fully expect you to watch the lecture videos in their entirety. Pause whenever you need to, but always be sure to return and finish watching the video. Please note that the recorded lectures are FSU properties and only available to students enrolled in your class. Students are not allowed to share the recorded lectures to any other people outside the class. Copyright of the recorded lectures are reserved by the instructors and FSU.

### Email and Communication

~ **Please turn on the course notifications on Canvas** by going to Account/Notifications/and checking the *Notify me right away* option for all of the items under Course Activities.

~I will communicate with you by sending emails to your [@my.fsu.edu](mailto:my.fsu.edu) account and posting announcements on the course website. **Please check your FSU email and the Canvas announcements every day.**

~If you email me, please send from your [@my.fsu.edu](mailto:my.fsu.edu) account.

~Please send assessment-related enquiries least 24 hours before the assessment is due.

~Always **include your name and section number** when email me. I need to know this information in order to answer your query and if you have not provided it, you may not get a response.

~You may expect a response to your email within two workdays. But if you email me with an enquiry that was previously addressed in the syllabus, in a class email or in a course announcement, you may not get a response.

### Assessment and Grading

We will allow absolutely no make-ups, no extra credit assignments, and in general, no opportunities for grade improvement, after the Last Day of class, so please do your best during the term.

Assessments that are not submitted will receive a grade of zero. When a makeup is submitted, the zero will be replaced with the earned grade. All assessment will be open-notes.



**Note on Technology-dependent Assessments**

This course is heavily technology-dependent. While we will do our best to work with you on technology issues, please be aware that if you take an assessment but we can find absolutely no record of the fact, then we will not be able to give you credit for it. Please **DO NOT USE SAFARI** when you take assessments on Canvas – **please use Chrome or Firefox.**

**Your overall course grade will consist of the following:**

- 1. Quiz (60%):** There will be 7 Quizzes (4 Timed Quizzes and 3 Open Quizzes), each worth 10% of your final grade. Your lowest quiz grade will be dropped. **Quizzes make-ups must be scheduled within one week of the original quizzes due date.**
- 2. LSQA (10%):** Note that, STA 1013 has been certified as one of FSU’s Liberal Studies Quantitative and Logical Thinking courses. As a requirement, administer the appropriate Liberal Studies Quantitative Assessment (LSQA) during the semester. This will be a common assessment (not final exam).
- 3. Final Quiz (30%):** There will be a cumulative final quiz during the FSU final exam week. You will have 2 attempts to finish this final quiz.

**Overall Course Grade**

Please ignore the grade totals or averages that you may see on the course website; they are not correct. In this class, we only store and display individual assessment grades on the course website, we do not do grade calculations there. All grades will be recorded as percentages, and these percentages (not points) will be used in your overall course grade calculation. Your letter grade will be selected from the table below after rounding the overall numerical course grade UP to the next higher whole number.

		<b>B+</b>	90-87	<b>C+</b>	80-77	<b>D+</b>	70-67		
<b>A</b>	100-93	<b>B</b>	87-83	<b>C</b>	77-73	<b>D</b>	67-63	<b>F</b>	0-59
<b>A-</b>	93-90	<b>B-</b>	83-80	<b>C-</b>	73-70	<b>D-</b>	63-60		

**How to complete this class successfully**

**For each topic:**

- ~watch the relevant lecture video(s),
- ~if you are able to, fill in the blank notes (on paper or on tablet) as you watch the video(s),
- ~study thoroughly the information and examples in class notes,
- ~attempt the relevant Open Quizzes,
- ~take the relevant Timed Quiz,
- ~do all of the try-on-your-own exercises in the notes,
- ~study the solutions even if you get the answers right because the solutions can provide insights to the problems,
- ~make sure you know how to use your calculator appropriately.

**Remember that you can email me if you need help.**



### **Grade Review**

If you believe that a correct was counted as incorrect on a quiz, **please email me about it within 24 hours after you submit the quiz.** If it turns out that your answer was correct, you will be given credit for it.

### **Receiving a grade of “Incomplete”**

A request for a grade of “Incomplete” will

~NOT be granted if you have completed the coursework, including the final quiz and excluding the allowable absences.

~be granted only if both of the following conditions are satisfied:

- (1) The only assessment that you have yet to take is the final quiz, and
- (2) Your overall average excluding the final quiz is a passing grade (70% or above).

### **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." (Florida State University Academic Honor Policy, found at <http://fda.fsu.edu/Academics/Academic-Honor-Policy>)

### **Attendance, Absence and Drop/Withdrawal**

~Drop and Withdrawal deadlines are given in the University's academic calendar at <https://registrar.fsu.edu/calendar/>

~First-day attendance will be taken electronically on the course website.

~You are expected to adhere to all assessment deadlines.

~Lack of future planning, or mismanagement of time and other resources, are not acceptable reasons for missing assessment deadlines.

~Bear in mind that the opportunities presented in this class are made equally available to all students in the class and it is up to each individual to make the most of these opportunities.

~In the interests of fairness, we will not do for one student what we cannot do for all students who are likely to request the same.

~Documentation for missing assessment deadlines will not be accepted after the Last Day of Class.

### **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.



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### **Final Exam Rescheduling Policy**

You may not take the final exam before final exams week. Individual student who need to reschedule the final exam for a different time during final exams week will need to

- (i) talk to me about it first and get my permission to reschedule,
- (ii) fill out the “Request to Reschedule Final Examination” form

at <https://artsandsciences.fsu.edu/students/undergraduate/forms-requiring-deans-approval/rescheduling-final-examination> and get it approved by the Dean of Arts and Sciences office, and

(iii) let me have the approved form by the last day of classes. If you experience a documented emergency that prevents you from observing the above deadline, contact me as soon as you are able to, and we’ll take it from there.

### **Sexual Misconduct and Title IX Reporting**

As an instructor, I am obliged to report all instances of sexual misconduct that I become aware of to the University’s Title IX Director; I cannot hold such information confidential. If you would like to discuss your situation in confidence, you may contact the Victim Advocate Program (<https://dos.fsu.edu/vap/>), the University Counseling Center (<https://counseling.fsu.edu/>), the Employee Assistance Program (<https://eap.fsu.edu/>), University Health Services(<https://uhs.fsu.edu/>), or pastoral counselors.

### **Americans With Disabilities Act**

Students with disabilities needing academic accommodation should:

- (1) register with and provide documentation to the Office of Accessibility Services; and
- (2) request a letter from the Office of Accessibility Services to be sent to the instructor indicating the need for accommodation and what type; and
- (3) meet (in person, via phone, email, skype, zoom, etc...) with each instructor to whom a letter of accommodation was sent to review approved accommodations. This syllabus and other class materials are available in alternative format upon request.

For the latest version of this statement and more information about services available to FSU students with disabilities, contact the:

Office of Accessibility Services  
874 Traditions Way  
108 Student Services Building  
Florida State University  
Tallahassee, FL 32306-4167  
(850) 644-9566 (voice)  
(850) 644-8504 (TDD)  
oas@fsu.edu  
<https://dsst.fsu.edu/oas/>



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Please note that instructors are not allowed to provide academic accommodations to a student until they receive the letter mentioned in item (2) above. Academic accommodations will be provided as soon as possible after the letter is received. Academic accommodations are not retroactive, so they will not apply to lectures/lessons and assessment that took place before the letter was received.

Academic Problems Flow Chart could help students solve problems in academic realm.

(<https://fda.fsu.edu/academic-resources>)

### CONFIDENTIAL CAMPUS RESOURCES

Various centers and programs are available to assist students with navigating stressors that might impact academic success. These include the following:

Victim Advocate Program

University Center A, Rm. 4100

(850) 644-7161

Available 24/7/365

Office Hours: M-F 8-5

<https://dsst.fsu.edu/vap>

University Counseling Center

Askew Student Life Center, 2nd floor

942 Learning Way

(850) 644-8255

<https://counseling.fsu.edu/>

University Health Services

Health and Wellness Center

(850) 644-6230

<https://uhs.fsu.edu/>