



Fall 2022

Session 0017: Aug 22, 2022 – Dec 9, 2022

Florida State University, Department of Statistics
Main office 214 OSB, phone 850-644-3218.

Course Information

Course Name: *Fundamental Business Statistics*

Course Code: *STA 2023, Section 0017*

Credit-hours: 3

Format: F2F

Class Meeting Days: Aug 22, 2022 - Dec 9, 2022

Times: TuTh 8:00AM - 9:15AM

Locations: OSB 0110

Prerequisites: None, but we recommend two years of high school algebra.

Special Note: High school students who earn a “3” or better on the AP Statistics exam can be given credit for STA 2023.

Please turn on the course notifications in Canvas by going to Account/Notifications and selecting the *Notify immediately* option for all of the items under Course Activities. Please check your FSU email and the course announcements every day. We will not use Honorlock.

Please note that, for each class period, if no students show up **within the first 15 minutes**, or if there is a 15-minute stretch of time when no students show up after the last student has left, then the rest of the period will be cancelled. The next lecture will begin where the cancelled lecture would have left off, and the next assessment will include the material that would have been taught in the cancelled lecture.

Instructor Information

Name: Yuhui Wang

Email: yw21e@fsu.edu (You may expect a response within two work days.)

Office Hours: Tuesday 1:00~2:00 AM, or by appointment.

Office Location: OSB 322

The 15-min cancellation policy applies to office hours and appointments.

Grader Information

Name: Lei Yan

Email: ly21a@fsu.edu (You may expect a response within two work days.)

Office Hours: Tuesday 11:10 AM ~ 12:10 PM, or by appointment.

Office Location: OSB 201E

The 15-min cancellation policy applies to office hours and appointments.

Course Description

The course covers statistical applications in business, involving graphical and numerical descriptions of data, data collection, correlation and simple linear regression, elementary probability, random variables, Binomial and Normal distributions, sampling distributions, and confidence intervals and hypothesis tests for a single sample. The purpose of this course is to prepare students for further study and job preparation in the field of Business. It will emphasize understanding of data and interpretation of statistical analyses. It will require students to think of data, and report the results of their analyses, in context.

Learning Objectives

This course has been approved to meet FSU's Liberal Studies **Quantitative and Logical Thinking** requirements and helps 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 demonstrate the ability to:

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 2023, which includes a written summary of results.

3. Use descriptive statistics and graphical methods to summarize data accurately.
4. Use inferential statistics to make valid judgments based on the data available.
5. Describe the goals of various statistical methodologies conceptually.
6. Apply statistical techniques in the context of business processes, everyday life, and further studies in their discipline.
7. Develop a healthy skepticism toward statistical studies and their results based on a sensible consideration of the techniques employed.

Grades

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.

If you believe that the grade you received on an assessment is incorrect, please bring it to the instructor's or the grader's attention **within 48 hours** after the grade has been made available to you. If no issues are raised during that 48-hour time frame, then it will be assumed that the grade is accepted and subsequent requests for a grade review may not be granted.

Liberal Studies Quantitative Assessment (LSQA)-----10%

- NO collaboration and internet sources (except the course Canvas) are permitted
- cannot be dropped
- two timed attempts are allowed, 60 min for each attempt
- the LSQA will be available from **Friday 12:00 AM to until Friday 11:59 PM** after the relevant chapter has been completed in lecture

Timed Quiz 65%

- NO collaboration and internet sources (except the course Canvas) are permitted
- the One-sample Confidence Intervals timed quiz and the One-sample Hypothesis Tests timed quiz cannot be dropped
- of the other timed quizzes, the lowest one percentage grades will be dropped

- two timed attempts are allowed for each quiz, 60 min for each attempt
- TQs will be available from **Friday 12:00 AM until Friday 11:59 PM** after the relevant chapter has been completed in lecture

Open Quiz 25%

- collaboration is allowed
- the One-sample Confidence Intervals open quiz and the One-sample Hypothesis Tests open quiz cannot be dropped
- of the other open quizzes, the lowest one percentage grades will be dropped
- unlimited attempts are allowed for each quiz, 120 min for each attempt
- OQs will be available from **Tuesday 12:00 AM until Friday 11:59 PM.**

You may expect a maximum of one OQ and TQ due every week. Quizzes will be published as the classes proceed. It is your responsibility to stay keen on the assignment due dates on canvas.

Extensions

- You are allowed with up to **one-time** extension for one timed quiz. That is, if you ask for an extension for Timed Quiz 1, for example, you don't get a second extension on Timed Quiz 1, and you forever lose the chance to get an extension on a different timed quiz.
- A maximum of **7 calendar days** could be allowed for the extension. We strongly encourage you to confirm that you will be ready to finish the assignment by the extended due date before the extended days starts counting.
- Be careful with accumulating multiple assignments. Manage your time well.
- NO extensions are allowed for the open quizzes.
- The Last Day of Classes is the ultimate deadline for an extension – this applies to all assessments given during this term.
- Only when everyone has completed a specific timed quiz could we discuss questions from that quiz in class.
- We can always discuss open quizzes questions in class.
- Please send the instructor or the grader an email or canvas message to address your reasons for extension/make-up on a specific timed quiz. No in-person oral agreement on gradings or extensions will be recognized.

Receiving a grade of “Incomplete”

A request for a grade of “Incomplete” will

- NOT be granted if you have completed the coursework, including the assessments that cannot be dropped and excluding the drops and 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 assessment, and
 - (2) your overall average excluding the final assessment is a passing grade (70% or above).

Grade Calculation:

Please note that canvas calculate grade in points instead of percentage. You may calculate your current grade by following the steps below.

(1) Calculate the average of your Open Quiz percentages - omit the lowest two out of OQ1-9 first. (OQ10 & OQ11 cannot be dropped.)

(2) Calculate the average of your Timed Quiz percentages - omit the lowest two out of TQ1-9 first. (TQ10 & TQ11 cannot be dropped.)

(3) Your current grade is now $(0.25 * \text{OQ average}) + (0.65 * \text{TQ average}) + (0.1 * \text{LSQA percentage})$.

At the end of the term, we will apply the same steps to assign your final grades.

Grading scale (percent)

A = [93, 100]

A- = [90, 93)

B+ = [87, 90)

B = [83, 87)

B- = [80, 83)

C+ = [77, 80)

C = [73, 77)

C- = [70, 73)

D+ = [67, 70)

D = [63, 67)

D- = [60, 63)

F = [0, 60)

Required Materials

- A personal computer, reliable internet connection, and Chrome or Firefox browser.
- A TI-84 Plus or equivalent calculator. We will teach you how to use a TI-84 series calculator, but we cannot promise to be able to help with any other type of calculator.
- A textbook is not required for this class. The instructor will provide all required course notes and exercises.

Please note that the materials provided by the instructor were put together for your individual use only. We ask that you do not share them, especially with third parties who are not enrolled in this class. If you seek help outside of class, then you may, of course, allow your helper to see the materials, but please do not allow them to make copies or in any other way take our material. We appreciate your co-operation in protecting our material. Thank you!

Additional Resource

The following **free online textbook** is an additional resource that you might find useful:

[Introductory Statistics from OpenStax, Print ISBN 1938168208, Digital ISBN 1947172050,](https://www.openstax.org/details/introductory-statistics)

www.openstax.org/details/introductory-statistics.

Lecture videos and/or other recordings provided by the instructor

Please note that the recorded lectures and/or other recordings are the property of Florida State University and are being made available only to the students enrolled in this class. Students are not permitted to share the recorded lectures or other recordings with any person or entity outside of this class. Copyrights of the recorded lectures and other recordings are reserved by the instructor and Florida State University.

Note on Technology-dependent Assessments

This course is 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.

Sexual Misconduct and Title IX Reporting

As an instructor, I am obliged to report all instances of sexual misconduct and other Title IX issues 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/>), Counseling & Psychological Services (<https://counseling.fsu.edu/>), the Employee Assistance Program (<https://eap.fsu.edu/>), University Health Services (<https://uhs.fsu.edu/>), or pastoral counselors. If you would like to submit a report to the University's Title IX Director, please go to <https://report.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.

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

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/academic-resources/academic-integrity-and-grievances/academic-honor-policy>)

Academic Success

Your academic success is a top priority for Florida State University. University resources to help you succeed include tutoring centers, computer labs, counseling and health services, and services for designated groups, such as veterans and students with disabilities. The following information is not exhaustive, so please check with your advisor or the Department of Student Support and Transitions to learn more.

Americans with Disabilities Act

Florida State University (FSU) values diversity and inclusion; we are committed to a climate of mutual respect and full participation. Our goal is to create learning environments that are usable, equitable, inclusive, and welcoming. FSU is committed to providing reasonable accommodations for all persons with disabilities in a manner that is consistent with academic standards of the course while empowering the student to meet integral requirements of the course.

To receive academic accommodations, a student:

- (1) must register with and provide documentation to the Office of Accessibility Services (OAS);
- (2) must provide a letter from OAS to the instructor indicating the need for accommodation and what type; and,
- (3) should communicate with the instructor, as needed, to discuss recommended accommodations. A request for a meeting may be initiated by the student or the instructor.

Please note that instructors are not allowed to provide classroom accommodations to a student until appropriate verification from the Office of Accessibility Services has been provided.

This syllabus and other class materials are available in alternative format upon request.

For 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>

Academic accommodations will be provided as soon as possible after verification is received. Academic accommodations are not retroactive, so they will not apply to lectures/lessons and assessments that took place before verification was received.

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	Counseling and Psychological Services 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/
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Disaster

At times of severe weather or other disasters, please check your FSU email, your text messages, the Seminole Safe App and FSU Alerts (<https://alerts.fsu.edu/>) as often as you can to keep yourself informed. Check them every day before you leave home so that you don't miss any last minute announcements. If the University closes due to a disaster, we will all be informed via the above means, and classes and office hours will be automatically cancelled even if I don't announce it. As long as the University remains open, classes will still be on. However, please practice safety first. If it will be unsafe for you to come to class due to the effects of a disaster, please do not attempt to come in. You will not be penalized, we will work with you.

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.

Public Health Protocols (as of March 2022)

As the number of positive COVID-19 cases continues to fall, the CDC recently updated the status of Leon and surrounding counties to "low" community levels, meaning that indoor masking is no longer routinely recommended. Everyone is encouraged to continue to stay up to date with vaccines and boosters, stay home and get tested if you have symptoms that may be COVID, and consider wearing a mask if you have significant concerns about potentially contracting or spreading COVID or other illnesses. Finally, please bear in mind that the COVID-19 situation is fast-moving, and that university guidance on the issue may change at any time.

Classes Subject to HB233 Recording

In this class, consistent with state law and university policy, students are permitted to make recordings of class lectures for personal use only. As noted, sharing, posting, or publishing classroom recordings may subject you to honor code violations and legal penalties associated with theft of intellectual property and violations of other state law. Moreover, students and educators have expressed concern that recording classroom activities may negatively impact the learning experience for others, especially in classes that involve questions, discussion, or participation. To protect a learning environment in which everyone feels free to experiment with ideas, we ask you refrain from recording in ways that could make others feel reluctant to ask questions, explore new ideas, or otherwise participate in class. Students must monitor their recording so that they do not include participation by other students without permission. Students with disabilities will continue to have appropriate accommodations for recordings as established by the Office of Accessibility Services.

