

# Fundamentals of Business Statistics — STA 2023 — Section 17

Syllabus — Spring 2020

Florida State University — Statistics Department

## Instructor information

**Name:** Herman Autore

**Email:** [hautore@fsu.edu](mailto:hautore@fsu.edu)

**Office:** LOV 304B [Find in Google Maps](#).

**Office hours:**  
Tuesdays 2:15 to 3:15 PM

## Class information

**Day(s):** MWF

**Time:** 1:25 PM to 2:15 PM

**Room:** OSB 110 (OSB is AKA Roger's Building.) [Find in Google Maps](#).

## Required materials:

- Pencil or mechanical pencil
- Eraser
- [iClicker](#).
- Calculator. TI-84 or similar.
- Textbook. *The Practice of Statistics for Business and Economics*. Moore, McCabe, Alwan, Craig. 4<sup>th</sup> Edition. ISBN 978-1464125645. [Search for this book online](#).
- Something with which to access Canvas and other electronic classroom resources.

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## COURSE DESCRIPTION

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

Credit Hours: 3

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

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.

Fundamentals of Business Statistics  
Syllabus

**COURSE 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 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.
- (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.

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**Grading**

<b>Assesment</b>	<b>Percent of Grade</b>
<b>Exams</b>	80
<b>Pop Quizzes</b>	
Individual	10
<b>Homework</b>	
Individual	15
<b>Total</b>	105

**Homework**

Homework will be based on lectures

**Exams**

Exams will be based on homework and class lectures.

**Pop quizzes**

The quizzes will be based on the homework.

## Grading Scale

Grade	Percent of Points
A	$93 \leq x \leq 105$
A-	$90 \leq x < 93$
B+	$87 \leq x < 90$
B+	$83 \leq x < 87$
B-	$80 \leq x < 83$
C+	$77 \leq x < 80$
C	$73 \leq x < 77$
C-	$70 \leq x < 73$
D+	$67 \leq x < 70$
D+	$63 \leq x < 67$
D-	$60 \leq x < 63$
F	$x < 60$

## Rounding when grading

Grades are not rounded.

## Pacing schedule

Week	Topic	Date	Concurrent Events
1	Graphical description of data	1/6/20	
1	"	1/8/20	
1	"	1/10/20	
2	Numerical descriptions of data	1/13/20	
2	"	1/15/20	
2	"	1/17/20	
3	MLK Day	1/20/20	
3	Test	1/22/20	
3	Normal distribution	1/24/20	
4	"	1/27/20	
4	Correlation	1/29/20	
4	"	1/31/20	
5	"	2/3/20	
5	Simple linear regression	2/5/20	
5	"	2/7/20	
6	"	2/10/20	
6	Test	2/12/20	
6	Data collection	2/14/20	
7	"	2/17/20	

Fundamentals of Business Statistics  
Syllabus

7	"	2/19/20	
7	Elementary probability	2/21/20	Drop deadline
8	"	2/24/20	
8	"	2/26/20	
8	Normal distribution	2/28/20	
9	Test	3/2/20	
9	Random variables	3/4/20	
9	"	3/6/20	
10	"	3/9/20	
10	Binomial distribution	3/11/20	
10	"	3/13/20	
11	Spring Break	3/16/20	
11	Spring Break	3/18/20	
11	Spring Break	3/20/20	
12	"	3/23/20	
12	Test	3/25/20	
12	Sampling distributions	3/27/20	
13	"	3/30/20	
13	"	4/1/20	
13	Confidence intervals	4/3/20	
14	"	4/6/20	
14	"	4/8/20	
14	Hypothesis tests for a single sample	4/10/20	
15	"	4/13/20	
15	"	4/15/20	
15	"	4/17/20	
16	"	4/20/20	
16	"	4/22/20	
16	"	4/24/20	
17	Test	4/27/20	

**Final Exam**

Date: Wednesday April 29  
Time: 10:00 AM to 12:00 PM  
Room: TBD

For more information visit the [registrar](#).

**Religious Holidays**

If you will be absent or late because of a religious holiday, you must inform me during the first two weeks of class. With proper documentation your absence will be excused.

## Fundamentals of Business Statistics Syllabus

### Penalties

- Missed assessments from **excused absences** are guaranteed a make-up up only within one week of the original due date.
- Missed assessments from **excused tardies** are guaranteed a make-up only within one week of the original due date.
- Assessments that are not taken, and assignments that are not submitted, will receive a grade of zero. When a missed assessment/assignment is made up, the zero will be replaced with the earned grade.

### Appealing grades

If you think your assignment was incorrectly graded you may email me an explanation of why you think so or visit me during office hours.

### Classroom conduct

Do not distract me or your classmates. This implies arriving before class starts, not packing your bags (or leaving) before class ends, and being mindful when using electronics. E.g., making all electronics inaudible to those around you, and not displaying distracting images on your screens.

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### 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.

### Sexual Misconduct and Title IX Reporting

As an instructor, I am obliged to report all instances of sexual misconduct that I become aware of; 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/>), or University Health Services (<https://uhs.fsu.edu/>).

### Final Exam Rescheduling Policy

You may not take the final exam before final exams week. Individual students who need to reschedule the final exam for a different time during final exams week will need to talk to me about it first and get my permission to reschedule, fill out the "Request to Reschedule Final Examination" form at:

[artsandsciences.fsu.edu/students/undergraduate/forms-requiring-deans-approval/rescheduling-final-examination](https://artsandsciences.fsu.edu/students/undergraduate/forms-requiring-deans-approval/rescheduling-final-examination) and take it to the Dean of Arts and Sciences office at 010 LON to get it approved, and bring the approved form back to me by the last day of classes.

Fundamentals of Business Statistics  
Syllabus

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.

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### **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."<sup>2</sup> (Florida State University Academic Honor Policy, found at <http://fda.fsu.edu/academic-resources/academic-integrity-and-grievances/academic-honor-policy>.)

### **Americans With Disabilities Act**

Students with disabilities needing academic accommodation should:

- (1) register with and provide documentation to the Student Disability Resource Center; and
- (2) bring a letter to the instructor indicating the need for accommodation and what type. This can be accomplished by logging in to the AIM system and electing to receive academic accommodations in this class so that an email notification will be sent to the instructor.

Please note that instructors are not allowed to provide classroom accommodation to a student until appropriate verification from the Student Disability Resource Center 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:

Student Disability Resource Center  
874 Traditions Way  
108 Student Services Building  
Florida State University  
Tallahassee, FL 32306-4167  
(850) 644-9566 (voice)  
(850) 644-8504 (TDD)

Fundamentals of Business Statistics  
Syllabus

[sdrc@admin.fsu.edu](mailto:sdrc@admin.fsu.edu)

<http://www.disabilitycenter.fsu.edu/>