

# Fundamentals of Business Statistics — STA 2023 — Section 20

Syllabus — Spring 2019

Florida State University — Statistics Department

## Instructor information

**Name:** Herman Autore

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

**Office:** OSB 104-E (OSB is AKA Roger's Building) [Find in Google Maps](#).

**Office hours:** TBA. [Vote here for your desired office hours](#).

## Class information

**Day(s):** Tuesday, Thursday

**Time:** 5:15 PM to 6:30 PM

**Room:** OSB 108 (OSB is AKA Roger's Building)

## Required materials:

- Pencil or mechanical pencil
- Eraser
- Calculator. TI-84 or similar. I.e., one you can't use to cheat.
- Textbook. The Practice of Statistics for Business and Economics. Moore, McCabe, Alwan, Craig. 4<sup>nd</sup> Edition. ISBN 978-1464125645. [Search for this book online](#).

## Suggested materials:

- 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.

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**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**

<u>Assessment</u>	<u>Percent of Grade</u>
<b>Scheduled Quizzes</b>	
Individual	15
<b>Homework</b>	
Individual	15
<b>LSQA (mandatory)</b>	5
<b>Midterm Exams</b>	30
<b>Cumulative Final Exam</b>	30
<b>Total</b>	<b>105</b>

**Homework**

You will be instructed in detail during class on how to do the homework. The homework is to give you practice so that you thoroughly learn methods.

**Exams**

Exams will be based on homework and quiz questions.

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**Cumulative Final Exam**

The final exam will be based on homework and quiz questions.

**Individual in-class quizzes**

The quiz will be one question based on something from the homework.

**Grading Scale**

Grade	Percent of Points
	$94 \leq x \leq 105$
A	105
A-	$90 \leq x < 94$
B+	$87 \leq x < 90$
B+	$84 \leq x < 87$
B-	$80 \leq x < 84$
C+	$77 \leq x < 80$
C+	$74 \leq x < 77$
C-	$70 \leq x < 74$
D+	$67 \leq x < 70$
D+	$64 \leq x < 67$
D-	$60 \leq x < 64$
F	$x < 60$

**Rounding when grading**

When grading, percentages will be rounded up.

**Pacing schedule**

Week	Topic	Assessment Plan A	Date
1	Graphical description of data	HW1 assigned.	1/8/19
1	"	Quiz 1. HW1 due.	1/10/19
2	"	HW2 assigned.	1/15/19
2	Numerical descriptions of data	Quiz 2. HW2 due.	1/17/19
3	"	HW3 assigned.	1/22/19
3	"	Quiz 3. HW3 due.	1/24/19
4	Normal distribution	HW4 assigned.	1/29/19
4	"	Quiz 4. HW4 due.	1/31/19
5	Correlation	HW5 assigned.	2/5/19
5	"	Quiz 5. HW5 due.	2/7/19
6	Simple linear regression	HW6 assigned.	2/12/19
6	"	Quiz 6. HW6 due.	2/14/19
7	"	HW7 assigned.	2/19/19

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Week	Topic	Assessment Plan A	Date
7	Data collection	Quiz 7. HW7 due.	2/21/19
8	"	HW8 assigned.	2/26/19
8	Midterm Exam + LSQA	Quiz 8. HW8 due.	2/28/19
9	Elementary probability	Exam. HW due.	3/5/19
9	"	HW9 assigned.	3/7/19
10	Normal distribution	Quiz 9. HW9 due.	3/12/19
10	Random variables	HW10 assigned.	3/14/19
11	"	Quiz 10. HW10 due.	3/19/19
11	Binomial distribution	HW11 assigned.	3/21/19
12	"	Quiz 11. HW11 due.	3/26/19
12	"	HW12 assigned.	3/28/19
13	Sampling distributions	Quiz 12. HW12 due.	4/2/19
13	"	HW13 assigned.	4/4/19
14	Confidence intervals	Quiz 13. HW13 due.	4/9/19
14	"	HW14 assigned.	4/11/19
15	"	Quiz 14. HW14 due.	4/16/19
15	Hypothesis tests for a single sample	HW15 assigned.	4/18/19
16	"	Quiz 15. HW15 due.	4/23/19
16	"		4/25/19
17	Final Exam	Final Exam	?

### Final Exam

Date: Monday, 4/29/19  
Time: 3:00 pm to 5:00 pm  
Room: TBA

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.

### Penalties

- Missed assessments from **excused absences** can be made up only within one week of the original due date.
- Missed assessments from an **unexcused absence** cannot be made up.
- Missed assessments from **excused tardies** can be made up only within one week of the original due date.
- Missed assessments from **unexcused tardies** cannot be made up.

### Appealing grades

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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.

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.

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**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>.)

**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.

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)  
[sdrc@admin.fsu.edu](mailto:sdrc@admin.fsu.edu)  
<http://www.disabilitycenter.fsu.edu/>