



Florida State University
Statistics Department
STA 2023 Fundamental Business Statistics
Fall 2017

INSTRUCTOR INFORMATION:

Mr. Bradley Hupf

- Email: bradley.hupf@stat.fsu.edu
- Office: OSB Room 104 F

Office Hours:

- Monday 12:20-1:20 PM
- Wednesday 10:15-11:00 AM
- Or by appointment, please email me at the above address to setup a time to meet

COURSE INFORMATION:

STA 2023, Fundamental Business Statistics, Section 16, 3 Credit Hours

Class meets Monday and Wednesday 11:00 AM to 12:15 PM in OSB 110

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

REQUIRED MATERIALS:

- Lecture Notes will be posted online, on the blackboard website. I may add or skip portions of the notes, so regular classroom attendance is important to obtain all notes. If you miss class you ARE still responsible for what was taught during the lecture
- A graphing calculator, preferably a TI-84 as that is what I will be giving direct instructions for. This will be used for quizzes and tests
- Access to blackboard, the site will be updated frequently and will be the location of notes and grades.
- You DO NOT need to purchase a textbook for this class

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.

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 or principles.
- (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 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.

LIBERAL STUDIES FOR THE 21st CENTURY:

Quantitative and Logical Thinking

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 thus offers a transformative experience. This course has been approved as meeting the Liberal Studies requirements for Quantitative and Logical Thinking and thus is designed to help you become a **critical analyzer 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.

GRADING:

Quizzes

- There will be 5 quizzes throughout the semester, if you take all of the quizzes I will allow you to make-up points on the quiz you scored lowest on. All quizzes will be equally weighted
- On quiz days you will need to bring a calculator and a pencil. You may also bring one 3" x 5" note card of handwritten notes to use throughout the quiz.
- If you miss a quiz, due to a university excused absence (These can be found at the end of the syllabus), you need to email me or talk to me within 1-week of the missed quiz to schedule a time for you to make-up the quiz. If you do not communicate with me within 1-week you will not be able to make up the quiz and you will receive a 0.

Attendance/Activities

- Attendance will be taken randomly and unannounced throughout the semester.
- If you have an excused absence, you must show me the documentation within 1 week of the missed class. You are still responsible for the material covered during your absence. You may either come to my office hours or setup a time to meet with me to go over any material you missed
- If you are missing class for a religious holiday, please either send me an email or give me a written document 1-week in advance of the holiday. The absence will be excused, but students are still responsible for the topics covered in the class.

Final Exam

- The Final Exam will take place on Tuesday December 12th 7:30 AM to 9:30 AM, the location of the final exam will be given closer to the date of the exam
- The Final Exam is cumulative, so there will be material from the entire semester on it.
- On the day of the Final Exam you will need to bring a calculator and a pencil to write with. You may also bring 1-page of handwritten notes to use throughout the exam

Grading Scheme 1

Graded Assessment	Percentage of Total Grade
Quizzes	50%
Attendance/Activities	15%
Final	35%

Grading Scheme 2

Graded Assessment	Percentage of Total Grade
Quizzes	60%
Final	40%

At the end of the semester I will see which of the two grading schemes gives you the highest grade and that will be your final grade.

Requesting a Re-Grade

- If you disagree with a grade you obtained on a quiz you have one week to come to my office or contact me about a re-grade. If you do not approach me within one week the grade you received is final.

Grade	Cutoff	Grade	Cutoff	Grade	Cutoff	Grade	Cutoff
A	100-93	B	86-83	C	76-73	D	66-63
A-	92-90	B-	82-80	C-	72-70	D-	62-60
B+	89-87	C+	79-77	D+	69-67	F	59-0

This is the strictest the grade cutoffs will be. I reserve the right to lower the cutoffs. All grades will be rounded up i.e. if you have a 89.1 in the online gradebook you would be awarded a 90 as your final grade.

(1) 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.

(2) 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>.)

(3) Americans With Disabilities Act:

Students with disabilities needing academic accommodation should:

- (1) register with and provide documentation to the Student Disability Resource Center;
 - (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: Student Disability Resource Center

874 Traditions Way

108 Student Services Building

Florida State University

Tallahassee, FL 32306-4167

sdrc@admin.fsu.edu

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

(850) 644-9566 (voice)

(850) 644-8504 (TDD)

Tentative Class Schedule

Week	Date	Monday	Wednesday
1	8/28-9/1	Syllabus/ Summary Statistics	Summary Statistics
2	9/4-9/8	Labor Day *No Class*	Probability
3	9/11-9/15	Probability	Probability
4	9/18-9/22	Probability	Quiz 1
5	9/25-9/29	Random Variables	Random Variables
6	10/2-10/6	Random Variables	Quiz 2
7	10/9-10/13	Binomial Distribution	Simple Linear Regression
8	10/16-10/20	Simple Linear Regression	Simple Linear Regression
9	10/23-10/27	Quiz 3	Normal Distribution
10	10/30-11/3	Normal Distribution	Normal Distribution
11	11/6-11/10	Central Limit Theorem	Quiz 4
12	11/13-11/17	One Sample Confidence Intervals	One Sample Confidence Intervals
13	11/20-11/24	One Sample Confidence Intervals	Thanksgiving break *No Class*
14	11/27-12/1	One Sample Hypothesis Testing	One Sample Hypothesis Testing
15	12/4-12/8	Quiz 5	Review for Final

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