
STA 2023: Fundamental Business Statistics
Fall 2018

Section 15: OSB 110 MoWeFr 12:20-1:10

Section 20: HCB 207 MoWeFr 11:15-12:05

Instructor: Dr. Justin Shows

Email: jhshows@stat.fsu.edu

Office: OSB 104A

Office Hours: 1:30-2:30 p.m. MoTuWeTh or by appointment

COURSE DESCRIPTION

Prerequisite: 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 will be given credit for STA2023.

Credit Hours: 3

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) 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 STA2023, 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.

REQUIRED MATERIALS

Textbook: No book is required, but *The Practice of Statistics for Business and Economics*, 4th ed, by Moore, McCabe, Alwan, and Craig is a good source.

Class notes: Guided note outlines as Word documents will be posted on Canvas. You should either print them before class or have them available on a computer. The notes are given as Word documents specifically so that you can type notes directly into the document.

Calculator: TI-84 Plus or equivalent.

Software: Minitab 18 may be used for assignments. Instructions for use will be given. You can access Minitab (among other programs) through the university's vpn at myFSUvLab. Sign in with your FSUID and password at:

<https://myfsuvlab.its.fsu.edu/vpn/index.html>

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.

The syllabus is intended to be an agreement between you (student) and I.

The presence of your name on your section roster after drop/add ends indicates that you have read and understood all of the information and documents posted on the course Canvas site, you have had your questions about them answered, and you accept and will abide by my policies.

Please understand that I deal with hundreds of students each term, and in the interests of fairness, I will not do for one student what we cannot do for all students who are likely to request the same.

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 best of them.

LIBERAL STUDIES FOR THE 21st CENTURY:

Quantitative and Logical Thinking

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.

ATTENDANCE, ABSENCE AND DROP/WITHDRAWAL

Attendance will be taken on the first day of class. If you are not present, the Registrars Office will drop you from the course. Students are expected to attend all class meetings and stay for the duration of the class period. If you must miss class or leave early or arrive late, please let me know beforehand or as soon as possible. If you miss class, I expect you to keep up-to-date with the lessons, activities and announcements by getting in touch with a classmate or with me, **and** by reading the course site on Canvas. Drop and withdrawal deadlines are given in the University's academic calendar at https://registrar.fsu.edu/registration_guide/fall/academic_calendar/

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. Recognized religious holy days are listed at <https://diversity.missouri.edu/religions/holidays.php>

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

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

EMAIL & COMMUNICATION

E-mail will be used as the primary method of communication.

All e-mails will be sent to fsu.edu addresses

If you send me an e-mail, send it from your fsu.edu address and put ST 2023 in the subject line

ASSESSMENT AND GRADING

- Assignments will be posted on Canvas along with a due date. You may work together on these assignments, but you must formulate and write your own solutions. No credit will be given for answers without supporting work.
- When collected, assignments are due at the beginning of class. Late assignments will not be accepted for any reason. Only hard copies may be submitted unless otherwise noted. The lowest assignment score will be dropped
- Exams: During an exam, everything except a calculator and writing utensil must be stowed under the desk or chair.
- Calculators may not be shared. Phones may not be used as calculators.
- No early or late exams will be given for any reason. If you miss an exam due to an excused absence (as defined in the University Attendance Policy), the final exam score will replace the missed exam score.

Grade disputes must be made within 24 hours of the class period in which graded exams are first returned.

You will be allowed to bring one 8.5 by 11 inch sheet (front and back) of notes for each in-class exam. These notes must be handwritten without the assistance of anyone else.

Privacy: I strictly follow FERPA rules and guidelines. For example, grades cannot be given out in e-mail or over the phone and you cannot take a graded assignment or exam to another student. For more information, read <https://registrar.fsu.edu/records/ferpa/>

Cell phone policy: Please show consideration for others by putting your phone in silent mode during class. You may not use your phone during class.

The grades are posted in Canvas only so you can see them. The average given by Canvas is not calculated using the correct formula, so please disregard it.

Grading:

In-Class Exam I	20%
In-Class Exam II	20%
In-Class Exam III	20%
Assignments	10%
LSQA	5%
Final Exam	25%

Weighted Average is rounded up to the next integer.

Grading Scale:

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

Exam Schedule:

Exam I: Wednesday September 26

Exam II: Wednesday October 24

Exam III: Wednesday November 28

Final Exam: This course has a block final exam. All sections will take the final Tuesday December 11, 12:30-2:30. Location to be announced.