

STA 2023-19 Fundamental Business Statistics

Professor: Jason Cleveland

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Office Location: OSB 201.G
Office Hours: MW 11:00am – 12:00pm

Course Information

Course Code: STA 2023
Section Number: 19
Course Name: Fundamental Business Statistics
Credit Hours: 3
Class Meeting Time: 9:30am – 10:45am
Class Meeting Place: HCB 208

Required Materials

Textbook: The Practice of Statistics for Business and Economics, 3rd Edition, by Moore, McCabe, Alwan, Craig, and Duckworth.
Calculator: Any simple scientific calculator.
Other: Blackboard account.

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 L.S. 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.

Teaching Philosophy

The teaching style of the instructor is to lecture through a topic and then provide an activity to emphasize the topic. Students should take notes, pay attention, and participate in class. Students should also ask questions when they feel lost or if they do not understand the material covered. It is my responsibility to convey the course material, in a complete and simple to comprehend manner, to the student.

Student Responsibilities

1. You should check your FSU email every day, as this is how you will receive course related email sent by me.
2. When emailing me, you should include the course name and section number in the subject line. Also, sign your name at the end of the email. Allow 48 hours for a response to your email.
3. You should make sure that your grade on blackboard matches the grade you get handed back. If you find that there is a mistake, notify me within one week of the assignment being returned.
4. Cell phones should be turned off or turned to silent during class.
5. You should arrive on time and prepared for class.
6. Do not wait until the last day or minute to finish your homework.

Assessments

- Homework (5 each at 5% = 25%)
Homework assignments will be given to you via blackboard and will come from your textbook. The purpose of the homework is to make sure you practice statistics problem solving on a regular basis to help you keep up with the material. Homework due dates will be posted online. If Homework assignments are due after the time of an assessment (Quiz or Exam) it is highly recommended that the assignment is attempted/finished prior to the assessment.
- Activities/Attendance (10%)
Although there will not be activities every day, when they happen your participation will be the key factor in your activity grade. There will be eight activities during the semester and the lowest three will be dropped. Attendance during these activities are required for a grade. Activities are due by the end of the class period in which they are given.
- Tests (2 each at 10% = 20%)
The tests are non-cumulative exams. No formulas will be provided for the exam but you are allowed one (8.5"x11"), front and back, sheet of paper with handwritten notes. The test dates are on the pacing schedule and will take place in the regular classroom.

- Midterm (15%)
The midterm is a non-cumulative exam. No formulas will be provided for the exam but you are allowed one (8.5"x11"), front and back, sheet of paper with handwritten notes. The midterm exam date is on the pacing schedule and will take place in the regular classroom.
- L.S. Quantitative Assessment (5%)
The L.S. Quantitative Assessment is a non-cumulative exam. No formulas will be provided for this exam but you are allowed one (8.5"x11"), front and back, sheet of paper with handwritten notes. The L.S.Q.A. exam date is on the pacing schedule and will take place in the regular classroom.
- Final (30%)
The final is a cumulative exam. No formulas are provided for this exam but you are allowed two (8.5"x11"), front and back, sheets of paper with handwritten notes. The location and date of the final is to be announced and will be posted in the course blackboard website when it is known.
Final Exam Data: Tuesday December 8th
Final Exam Time: 7:30am – 9:30am
Final Exam Location: TBA

Grading Method & Scale

- Your final grade will be calculated in the following way.
 - $Final\ Grade = .25*(average\ homework\ grades) + .10*(average\ activity/attendance\ grade) + .20*(average\ of\ quiz\ grades) + .15*(midterm\ grade) + .05*(L.S.Q.A.\ grade) + .30*(final\ exam\ grade)$
 - Normal rounding rules will apply to your Final grade (i.e. .0-.4 rounds down, .5-.9 rounds down).
 - Notice that there is 5% extra credit already built into the grading distribution and therefore no extra credit will be awarded beyond that.

- Grading Scale

A: 93 or higher	B: 83-86.99	C: 73-76.99	D: 63-66.99
A-: 90-92.99	B-: 80-82.99	C-: 70-72.99	D-: 60-62.99
B+: 87-89.99	C+: 77-79.99	D+: 67-69.99	F: below 60

Essential Policy Information

- **Penalties:**
Late homework assignments will receive a cumulative 10% penalty for the each day after the specific due date. There will be no penalties for missed activities, as there are eight and only five of them count towards receiving full credit, the grade will simply be a zero if missed. A missed exam, of any type in the assessment list, will be given a grade of zero if they are missed AND there is not an excuse for the absence.
- **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.

- **Excused Absence Policy:**
Late homework assignments with an excused absence for the due date will negate the penalty applied for late admission; however if it is turned in multiple class days after the excuse, the penalty will still apply. Missed activities will be given the grade of zero and students can miss up to three of them without harm to their grade; however if more than three are missed and the student provides an excused absence for all missed activities, then the student will be allowed to make up the that activity to receive full credit. If you miss a test, you must notify me within two days of the missed exam. Make-ups will only be allowed with a documented excuse (please ask your instructor what he might require for certain situations, i.e. Religious Holidays, Death in the family, etc.). Make-ups must be completed within one week of the missed test, provided that the absence from the test is excused. If you are not sure that your absence will be excused, ask me prior to the test – not after.

- **Unexcused Absence Policy:**
Late homework assignments without an excused absence will get the previously mentioned penalty applied to them. Missed activities without an excused absence will receive a grade of zero. Make-up exams will not be given for an unexcused absence. If you are not sure your absence will be excused, ask me prior to the test – not after.

- **Attendance Policy:**
If you miss class for any reason, it is your responsibility to acquire and review the material covered in class and then come to me with questions. I will gladly answer your questions but I will not re-teach the lesson that you missed.

- **Classroom Policy:**
Cell phones should be turned off or turned to silent during class. You should arrive on time and prepared for class. If you do arrive late or leave early, do so in a manner that does not disturb the class.

- **Students Completing an “Incomplete” or “Auditing”:**
If you are auditing this course or taking it to complete an “Incomplete” earned in a previous term, make yourself known to me so that I may let you have access to our current Blackboard websites. If you are completing an “Incomplete”, let me know who your former instructor was so that I may inform them of your grade at the end of the semester.

- **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/Academics/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 should be done during the first week of class.

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/>

Grading Appeals

During the course of the term, if you believe that a paper was improperly graded then you can email me to set up an appointment to discuss the grade. I promise to go over the paper and listen to your concerns. This should be done within one week after the assignment's grade has been posted or returned.

LIBERAL STUDIES FOR THE 21st CENTURY:

Quantitative and Logical Claims

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 offers a transformative experience; this course has been approved as meeting the Liberal Studies requirements 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.

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 presence of your name on your section roster after the first week of class indicates that you have read and understood the entire syllabus, you have had your questions about it answered, and you accept and will abide by its policies.
- Please understand, that in the interests of fairness, we will not do for one student what we cannot do for all students who are likely to request to 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.

Fall Term 2015-Main Session (August 24-December 11, 2015)

Monday	Tuesday	Wednesday	Thursday	Friday
August 24 Introduction	25	26 3.1	27	28
31 1.1, 1.2	September 1	2 Activity 1	3	4
7 Labor Day No Classes	8	9 2.1, 2.2	10	11
14 2.3	15	16 Activity 2, Review	17	18
21 Test 1	22	23 1.3	24	25
28 Activity 3	29	30 4.1, 4.2, 4.3	October 1	2
5 Activity 4	6	7 4.3, 4.4, Review	8	9
12 L.S.Q.A. Exam	13	14 4.4, Activity 5	15	16
19 Activity 6	20	21 Review	22	23
26 Midterm	27	28 5.1, 5.2	29	30
November 2 5.2, 5.3	3	4 6.1, 6.2	5	6
9 6.2	10	11 Veterans' Day Holiday No Classes	12	13
16 6.3, 6.4, Review	17	18 Test 2	19	20
23 Activity 7	24	25 Thanksgiving Holiday	26 Thanksgiving Holiday	27 Thanksgiving Holiday
30 7.1, Activity 8	December 1	2 Review for Final	3	4
7	8 FINAL EXAM 7:30am – 9:30am	9	10	11
14	15	16 Grades available online	17	18