



# SYLLABUS

## STA 2023: Fundamental Business Statistics

Florida State University • Department of Statistics • Fall 2017

This syllabus serves as an agreement between the students and the instructor with respect to the course information and policies. The contents of the syllabus will be used to resolve any issues or concerns that may arise during the course. Students are expected to be familiar with the contents of the syllabus and to abide by the information and policies in the syllabus.

### Class Information

Class Section: STA 2023 Fundamental Business Statistics, Section 19

Class Meeting Time: TuTh 3:35pm - 4:50pm

Class Meeting Dates: August 28, 2017 - December 8, 2017

Class Location: OSB 108

### Instructor Information

Instructor: Disa Yu

Instructor email: [disa.yu@stat.fsu.edu](mailto:disa.yu@stat.fsu.edu)

Office: OSB 210E

Office Hours: Tuesdays 11am - 1:00pm

### Grader Information

Grader: Shaokang Ren

Grader email: [sr17k@my.fsu.edu](mailto:sr17k@my.fsu.edu)

### 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 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.

### Required Materials

- Graphing Calculator (TI-83 family or TI-84 family recommended)
- Lecture notes will be provided on the university learning management system
- No textbook necessary

### Grading

*The Academic Honor Policy applies to all graded material in this class. Students are expected to follow the Academic Honor Policy when working on all graded material.*

- Homework 30%
  - Homework will be assigned on a weekly basis. Homework will be graded for completion according to the following 3-point scale: 3pt for "Complete", 2pt for

"Somewhat Complete", 1pt for "Marginally Complete", 0pt for "Not Complete or Not Submitted"

- Resources that may be used when doing the homework: class notes, working together with classmates, the internet, etc.
- Directly copying someone else's homework solution or directly copying a solutions manual is a violation of the Academic Honor Policy.
- Midterm Exam 25%
  - Students will be allowed one note sheet (front and back, on standard size 8.5" by 11" copy paper). The note sheet must be handwritten and written by the student who is using it. Students are also allowed their graphing calculator for the exam. No other resources may be used for the exam.
- Liberal Arts Quantitative Studies Quiz 10%
  - Students will be allowed one note sheet (front and back, on standard size 8.5" by 11" copy paper). The note sheet must be handwritten and written by the student who is using it. Students are also allowed their graphing calculator for the exam. No other resources may be used for the exam.
- Final Exam 25%
  - The STA 2023 block final exam will be on TUE Dec 12th at 7:30-9:30AM. The location of the final exam will be confirmed closer to the final exam date. (A block exam means that all sections of the course will have their final exam at this time, but each instructor will set his or her own exam paper.)
  - Students will be allowed two note sheets (front and back, on standard size 8.5" by 11" copy paper). The note sheets must be handwritten and written by the student who is using it. Students are also allowed their graphing calculator for the exam. No other resources may be used for the exam.
  - The final exam will be cumulative.
- Attendance 10%
  - There will be occasional attendance checks, where students will receive 1 point if they are present in class and 0 points if they are absent.
  - Students will not be penalized for excused documented absences; they will still receive the 1 point in this case.
  - The one lowest attendance grade will be dropped.

Grades will be posted as percentages in the University Learning Management System (i.e. Blackboard) in a timely manner. Note that the grades displayed in the ULMS will not yet be weighed according to the (30% - 25% - 10% - 25% - 10%) weight system described above. These weights will be added at the end of the course, and the final course percentage grade will be calculated accordingly. A final letter grade will then be assigned as outlined in the table below.

|                    |                    |                    |                   |
|--------------------|--------------------|--------------------|-------------------|
| A : 92.5% or above | A- : 92.5% - 89.5% | B+ : 89.4% - 86.5% | B : 86.4% - 82.5% |
|--------------------|--------------------|--------------------|-------------------|

|                    |                    |                    |                    |
|--------------------|--------------------|--------------------|--------------------|
| B- : 82.4% - 79.5% | C+ : 79.4% - 76.5% | C : 76.4% - 72.5%  | C- : 72.4% - 69.5% |
| D+ : 69.4% - 66.5% | D : 66.4% - 62.5%  | D- : 62.4% - 59.5% | F: 59.4% or below  |

### University Attendance Policy and Class Make-up 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.

**In order for absences to be considered excused absences, documentation of the excused absence must be provided to the instructor. This documentation must be provided to the instructor before an assignment or assessment make-up can occur. Note that the "Verification of Visit" document provided by the FSU Student Health Center is not adequate excused absence documentation.**

**For certain excused absence situations where documentation is difficult to obtain, such as absence due to religious holidays or absence due to the attendance of a funeral, a self-written and self-signed letter will suffice as adequate documentation. The instructor will decide, on a case-by-case basis, in which situations a self-written and self-signed letter will suffice as excused absence documentation, and in which situations more formal documentation will be required.**

**If adequate documentation does not accompany the absence due to an excused absence reasons listed above (e.g. documented illness, official university activities etc.) , then the absence will be considered an unexcused absence.**

**It is recommended that students submit excused absence documentation as soon as possible after the absence, in order to meet the make-up due-dates listed below, as documentation must be provided to the instructor before an assignment or assessment make-up can occur.**

- For **excused documented absences**, the midterm exam and LSQA quiz may be made up within 1 week of the original date at my OFH
- For **excused documented absences**, homework may be turned-in within 3 classes immediately after the date(s) of the documented excused absence
- Make-ups for **unexcused absences** are not guaranteed and will be considered on a case by case basis. If make-ups for **unexcused absences** are granted, they will likely be for partial credit.

- **No make-ups will occur after the last day of class**

### Grade Appeal Policy

If you disagree with a grade that you received, please email the grader with a re-grade request within 1 week of the day that the graded assignment was returned. Otherwise, the grade that you originally received will be used to compute your final grade. Exceptions will be made for grading errors on part of the instructor or grader.

### Classroom Conduct Expectations

- 1. Please note that consistently not coming to class or leaving class early is very rude to the instructor, especially in the privilege of a smaller class setting. Having your phone out and looking at it the whole time is likewise rude. Please act like respectable students who take their education seriously and who respect the time and effort that their instructor has dedicated to planning the class and teaching the class.**
- 2. If you are not performing as well as you would like to, or are concerned about your grade in the class, please be aware that you may come talk to me and we can discuss strategies for performing better or discuss your prospective class grade.**

### 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)  
sdr@admin.fsu.edu  
<http://www.disabilitycenter.fsu.edu/>

#### 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.