STA2023 Fundamental Business Statistics (3 credits)

A. **Term:** Fall 2025
B. **Sections:** 0001-0019, 0035 & 0036
C. **Delivery Method(s)/Location:** Face-to-Face
   ~ Lecture: Mon & Wed 1:20-2:10pm HCB 101 (this is section 0001)
   ~ Recitations: Fridays, rooms and times are on page 3 (these are sections 0002-0019, 0035 & 0036)

D. **Instructor Information**
   Name: Ms. Radha Bose
   Contact Information: rbose@fsu.edu
   Office Hours: Mondays 3:00-4:00pm
   Office Location: OSB 209H

E. **Prerequisites or Co-requisites**
   Two years of high school algebra is recommended. Special Note: High school students who earn a "3" or better on the AP Statistics Exam may elect to be given credit for STA 2023.

F. **Course Description**
   In this course, students will utilize descriptive and inferential statistical methods in contextual situations, using technology as appropriate. The course is designed to increase problem-solving abilities and data interpretation through practical applications of statistical concepts. This course is appropriate for students in a wide range of disciplines and programs.

G. **Course Objectives**
   1. Students will visualize and summarize data using descriptive statistics.
   2. Students will apply basic probability concepts to draw reasonable conclusions.
   3. Students will employ concepts of random variables, sampling distributions, and central limit theorem to analyze and interpret representations of data.
   4. Students will choose an appropriate method of inferential statistics, including confidence intervals and hypothesis testing, to make broader decisions based on sample data.
   5. Students will model linear relationships between quantitative variables using correlation and linear regression.

H. **CoreFSU Syllabus Language**
   This course has been approved to meet FSU's CoreFSU Quantitative and Logical Thinking requirements and helps 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.

I. Required Texts, Readings, and/or other Resources

~ A personal computer, reliable internet connection, and Chrome or Firefox browser.
~ A TI-84 Plus or equivalent calculator or app.
~ A textbook is not required. Notes and exercises will be posted on Canvas.

J. Course Schedule/Topical Outline

The tentative pacing schedule is on the last page.

K. Grading/Evaluation

a.

Component / Category	Percentage Weight	Graded for	Help permitted	Number of submissions permitted	Done where
Daily Attendance	10%	Attendance	N/A	N/A	In class
Daily Comprehension	15%	Accuracy	Yes	1 each	In class
QLT Assessment	10%	Accuracy	No	2	Out of class, on Canvas
Quizzes, approx 1 per week	65%	Accuracy	No	2 each	Out of class, on Canvas
Total	100%	---	---	---	---

b. Letter grades will be selected from the table below after rounding the numerical course grade up to the next higher whole number.

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

c. The use of AI (artificial intelligence) and unsanctioned internet sources is not permitted on any of the assessments in this class. All internet sources (apart from the course Canvas) are considered unsanctioned unless the instructor specifically states in writing that a given source is sanctioned.

L. Syllabus Change Policy

Except for changes that substantially affect implementation of the evaluation statement, this syllabus is a guide for the course and is subject to change with advance notice.

M. University Policies and Syllabus Language

Visit link below to review

University Attendance Policy
Academic Honor Policy
Americans With Disabilities Act
Academic Success
Free Tutoring from FSU

Statement on Public Health Protocols
https://facsenate.fsu.edu/Curriculum-Resources/syllabus-language

Friday Recitations

Section	Room	Begin	End
0002	HCB_0215	09:20 AM	10:10 AM
0003	HCB_0215	10:40 AM	11:30 AM
0004	HCB_0215	12:00 PM	12:50 PM
0005	HCB_0205	01:20 PM	02:10 PM
0006	HCB_0205	03:05 PM	03:55 PM
0007	HCB_0216	09:20 AM	10:10 AM
0008	HCB_0216	10:40 AM	11:30 AM
0009	HCB_0216	12:00 PM	12:50 PM
0010	HCB_0216	01:20 PM	02:10 PM
0011	HCB_0207	03:05 PM	03:55 PM
0012	HCB_0312	09:20 AM	10:10 AM
0013	HCB_0307	10:40 AM	11:30 AM
0014	HCB_0307	12:00 PM	12:50 PM
0015	HCB_0307	01:20 PM	02:10 PM
0016	HCB_0208	03:05 PM	03:55 PM
0017	HCB_0313	10:40 AM	11:30 AM
0018	HCB_0312	12:00 PM	12:50 PM
0019	HCB_0312	01:20 PM	02:10 PM
0035	HCB_0205	01:20 PM	02:10 PM
0036	HCB_0216	12:00 PM	12:50 PM

Tentative Pacing Schedule

Wk	MON 1:20-2:10pm, HCB 101	WED 1:20-2:10pm, HCB 101	FRI Please check your class schedule for your room and time.
1	Aug 25 Preliminary Definitions* Frequency Tables & Graphs	27 Frequency Tables & Graphs	29 Recitation 1
2	Sep 1 Labor Day, no classes	3 Summary Statistics	5 Recitation 2
3	8 Summary Statistics	10 Summary Statistics	12 Recitation 3
4	15 Summary Statistics	17 Summary Statistics	19 Recitation 4
5	22 Simple Linear Regression	24 Simple Linear Regression	26 Recitation 5
6	29 Simple Linear Regression	Oct 1 Probability	3 Recitation 6
7	6 Probability	8 Probability	10 Recitation 7
8	13 Random Variables	15 Random Variables	17 Recitation 8
9	20 Random Variables	22 Binomial Distributions	24 Recitation 9
10	27 Binomial Distributions	29 Central Limit Theorem	31 Homecoming, no classes after 12:00pm (no recitations before 12:00pm)
11	Nov 3 Central Limit Theorem	5 Central Limit Theorem	7 Recitation 10
12	10 Central Limit Theorem	12 Confidence Intervals for Mu	14 Recitation 11
13	17 Confidence Intervals for Mu	19 Confidence Intervals for Mu	21 Recitation 12
14	24 Hypothesis Tests for Mu	26 Thanksgiving holiday, no classes	28 Thanksgiving holiday, no classes
15	Dec 1 Hypothesis Tests for Mu	3 Hypothesis Tests for Mu	5 Recitation 13
FE	**There is no final exam. The final quiz will be available on Canvas from 12:01am EST Monday Dec 8 to 11:59pm EST Wednesday Dec 10.**		

* This will be a video that you'll need to watch before Recitation 1.