

Elementary Statistics

Syllabus Spring 2023

January 9 – May 4

I. Course Information

Course Title: Statistics

Course No. and Sect.: STA2023-06

Credit Hours: 3

Meeting Day & Time: Thurs 6-7:15PM

Course Location: Room 7-109

Meeting Dates: 1/9/23-5/4/23

Instructor Name: Karen McRae

Office Location: Room 7-108A

Office Hours: Virtual by appointment
MT 3:30-4:30 & TH 12:15-1:45pm

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Extended Emergency Closure

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II. Course Description

This onsite/live online lecture combination course is designed to provide students with a study of descriptive statistics, probability theory, random variables, hypothesis tests, confidence intervals, correlation, simple linear regression, and nonparametric statistics. It is expected that students attend all lectures during meeting dates and times. Students will be required to show a proficiency in interpreting and relating a set of data or circumstances to a definition equation or mathematical concept. This course fulfills the requirement for a college level mathematics course. The Gordon Rule applies.

Textbook (optional): Elementary Statistics

Author: Triola

Edition: 14th

ISBN No.: 9780136803102

Required Materials: MyMathLab access code and a Graphing Calculator, TI-84 plus

You do not need to buy a hard copy of the book. The textbook is online on the MyMathLab website. When you buy your access code you will have access to the textbook online.

III. Student Learning Outcomes/Course Objectives

The following list offers students a consistent way to see how CF's global learning outcomes are assessed in each class. This is for information purposes only and does not change the grading system used in this class. Only those learning outcomes relevant to this course are included below.

Learning Outcomes & How Measured

Learning Outcome	Quiz	Exam
Quantitative and Analytical Reasoning: The student will understand and apply mathematical and scientific principles and methods.		
1. Perform accurate computations using order of operations with and without technology.	X	X
2. Identify and organize relevant information and complete the solution of an applied problem.	X	X
3. Interpret and communicate understanding of visual representations of data.	X	X
4. Demonstrate mathematical number sense and unit sense.	X	X

IV. Assessment

Attendance: Each student is required to attend all class meetings. Attendance is required for all tests and **there will be no make-up tests**. Non-attendance does not constitute withdrawal from this course. It is the student's responsibility to complete the withdrawal forms by the appropriate date. (Attendance accounts for 5% of Final Grade.)

Grading Information: Homework, quizzes and tests will be assigned online through Pearson's MyMath Lab. They must be completed by the due date.

1. During class we will discuss each section. Students are expected to take notes (Guided Notes are provided in Canvas), and then read each section as needed. There are practice problems at the end of each section (the answers to the odd problems are worked out in the Student Solutions Manual) as well as online.
2. Each section will have assigned homework problems. The graded homework problems are online and will be checked as you finish each problem. You can use the help on MyMath Lab to do these problems. If you get a problem wrong you can try a similar problem and work until you get that problem type correct. You can retry homework problems until the due date and there are additional practice problems available in the online text book. Your lowest homework score will be dropped at the end of the semester.
3. There will be at least one online quiz for each chapter. The quiz problems will be similar to homework problems. You will not have the help buttons available when taking a quiz. You will have two attempts at each quiz; the better of the two scores will count towards your grade. The quiz must be completed before the questions are graded. If you use the second attempt you will need to do the whole quiz over, not just one particular problem. The problems will be similar but probably not exactly the same. Each quiz must be completed by the due date. Your lowest quiz score will be dropped at the end of the semester.
4. There will be five online tests. You must schedule your tests at the Testing Center on or before the due date. Please go to www.cf.edu/testing to schedule an appointment. Please schedule your exam at least two weeks in advance, the Testing Center tends to fill up quickly. Test questions will be similar to those you have worked on for homework and quizzes and lecture notes. **If you are caught cheating, your grade on the test will be a 0.** Your lowest of these five tests will be dropped at the end of the semester.
5. There will be a comprehensive online final exam. You must schedule your test at the Testing Center on or before the date of your scheduled final. Please schedule your exam at least three weeks in advance, the Testing Center tends to fill up quickly. The exam will include questions from each of your previous tests. Your test reviews will serve as your final exam review, so you will know the topics that will be covered on the exam. This exam is required and cannot be your dropped test.

Tests	70%
Quizzes	15%
Homework	15%

Grading scale (see current catalog):

A	90%-100%
B+	87%-89%
B	80%-86%
C+	77%-79%
C	70%-76%
D	60%-69%
F	Below 60%

Make-up policy: No make-up work will be given unless there is an emergency or prior approval has been given by the instructor. In such an event, you must notify your professor before the exam or item is due unless the emergency prohibits it and you may be asked to bring proof of the emergency. A make-up exam must be taken within one week of the original exam date unless the emergency prohibits it. Go to www.cf.edu/testing to schedule your exam and provide the testing date to your professor, so the password may be forwarded. While you do not need to disclose personal details, let your professor know as soon as possible if something is preventing you from participating online or completing work.

Proctoring: In order to verify student identity on assessments, this course requires proctored assessment. Assessments are proctored online at a CF Testing location.

V. Course Schedule Outline:

STA2023-06 Thurs. 6-7:15PM

Week	Dates	Section	Activities	Due Date
Week 1	1/12	1.1 1.2 1.3	Statistical & Critical Thinking Types of Data Collecting Sample Data Chapter 1 Quiz Practice Exam Chapter 1 Exam, Testing Ctr.	1/26
Week 2	1/16		MLK Holiday No Classes	
	1/19	2.1 2.2	Frequency Distributions Histograms	2/9
Week 3	1/26	2.2 2.3 2.4	Histograms Other Graphs Scatterplots Chapter 2 Quiz	2/9
Week 4	2/2	10.1-2	Correlation & Regression Chapter 10 Quiz Practice Exam Chptrs 2 & 10 Exam, Testing Ctr.	2/9
Week 5	2/8		Prof. Development No Classes	
	2/9	3.1 3.2	Measures of Center Measures of Variation	3/9
Week 6	2/16	3.2 3.3	Measures of Variation Boxplots Chapter 3 Quiz	3/9
Week 7	2/23	4.1 4.2	Probability Addition & Multiplication Rules	3/9
Week 8	3/2	4.3 4.4	Conditional Probability Counting Chapter 4 Quiz Practice Exam Chptrs 3 & 4 Exam, Testing Ctr.	3/9
Week 9	3/9	5.1 5.2	Probability Distributions Binomial Probability	4/13
	3/13-19		Spring Break	

Week 10	3/23	5.2 5.3	Binomial Probability Poisson Probability Chapter 5 Quiz	4/13
Week 11	3/30	6.1 6.2	Normal Distribution Normal Distribution Applications	4/13
Week 12	4/6	6.4 6.6	Central Limit Theorem Normal as Approximation to Binomial Chapter 6 Quiz Practice Exam Chptrs 5 & 6 Exam, Testing Ctr.	4/13
Week 13	4/13	7.1 7.2	Confidence Interval for Population Proportion Confidence Int. for Small Mean Chapter 7 Quiz	4/30
Week 14	4/20	8.1	Hypothesis Testing	4/30
Week 15	4/27	8.2 8.3	Test a Claim about a Proportion Test a Claim about a Mean Chapter 8 Quiz Practice Exam Chptrs 7 & 8 Exam, Testing Ctr.	4/30
Exam Week	5/4		Practice Exam Final Exam, Testing Ctr.	

STATEMENT: Due to unforeseen happenings, it may be necessary for the course assignment schedule to be altered. The instructor will always strive to be fair about any changes.

The College of Central Florida is committed to helping you succeed and achieve your academic, personal and career goals. There are a wide range of resources and support services available to you. When students are connected early to resources and support systems on campus they are more likely to stay in classes, perform better in those classes, and complete their path more quickly. One example is through an Early Support Program, where you may receive an email indicating your

professor or advisor is reaching out directly to help connect you to support services. This may include connecting you to tutoring, financial support, psychological support services, and disability services just to name a few. Be aware, you can also reach out to these services on your own as well. Additionally, we offer free tutoring, disability services, a testing center, and many other resources which are all available to you. [Please refer to the College Resources, Dates, and Policies document in your Canvas course to learn more about these supports and policies.](#)