

STA2023

Elementary Statistics

I. Course Information

Course Title: Elementary Statistics

Course No. and Section: STA2023_06

Instructor Name: Melissa Quigley

Credit Hours: 3 hours

Course Location: TRADITIONAL LECTURE

Meeting Dates: Tuesday & Thursday—2:00 p.m. to 3:15 p.m.

Meeting Location: Building 7 Room 104

Office Location: *Building 2 Room 207* (temporary office)

Office Hours:

- Monday: 9:00 a.m.—9:30 a.m. and 11:50 a.m.—2:00 p.m.
- Tuesday: 9:00 a.m.—9:30 a.m. and 12:30 p.m.—2:00 p.m.
- Wednesday: 9:00 a.m.—9:30 a.m., 11:50 a.m.—3:30 p.m.
- Thursday: 9:00 a.m.—9:30 a.m. and 12:30 p.m.—2:00 p.m.
- I am still available through email and canvas (virtually) throughout the day!

Telephone No.: 352-873-5800 ext. 1639

Email: quigleym@cf.edu

Extended Emergency Closure

“For emergency campus closings (natural disasters, etc.) call 352-291-4499 or 800-831-9244 or check our [website](#) (CF.edu).”

II. Course Description

This course includes a study of descriptive statistics, probability theory, random and binomial variables, linear correlation and regression, normal distributions, confidence intervals and hypothesis tests.

Required Text Title: MyLab Statistics, Triola

Author of Text: Pearson

Edition: 14th edition

ISBN No.: 9780136803102

Required Materials: [TI 30XS Multiview Scientific Calculator](#)

Optional Materials: [Graphing Calculator](#)

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.

CF Learning Outcomes

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

IV. Course Information & Assessment

Assignment Weights:

Assignment Weights		
Assessment		Points
Homework—5 points	x 25	125
Skills Checks—1 point	x 9	9
Attendance—50 points		50
Chapter Quizzes—10 points	x 9	90
Exams—150 points	x 5	750

Extra Credit Opportunities: Test Reviews (5 points each for **25 points total**), Learning Outcome quizzes (5 points each for **20 points total**), and Integrated Homework (1 point each for **9 points total**).

Grading Scale:

The grading scale is based on 1,000 points.

a C or greater is required to pass

Letter Grade	Points Required
A	900+ points
B+	870-899.9 points
B	800-869.9 points
C+	770-799.9 points
C	700-769.9 points
D	600-699.9 points
F	< 600 points

Assignments:

HOMEWORK ASSIGNMENTS

120 points (12% of the grade)

For each homework, the highest attempt counts. Each is worth 5 points. If you submit a partially completed paper, the grade will reflect the % completion.

SKILLS CHECKS

9 points

These quizzes check for understanding of prerequisite skills needed to be successful in each chapter. Each quiz is connected to an integrated homework assignment. Once you complete the skills check quiz, you will be directed to the homework assignment where the questions linked to outcomes you have already mastered will automatically be marked correct. This way, you only focus on non-mastered standards. You must get a 70% on each skills quiz/integrated homework to open up all assignments for that chapter. If you are struggling to get passing scores, you might need to consider setting aside some time for extra tutoring or utilize additional resources.

ATTENDANCE

50 points (5% of the grade)

Attendance is mandatory and part of your grade. It is proven that students who attend class (are present AND participate) frequently are more successful both in class and ultimately earn the intended degree. Including attendance in the grade calculations is not a punishment but rather a form of motivation and establishing good habits. Please communicate with your professor as soon as possible if you have extenuating circumstances. Timely communication is essential!

- 90% or more of classes = 50 points
- 80%-89% of classes = 40 points
- 70-79% of classes = 35 points
- 60-69% of classes = 30 points
- Fewer than 60% = 0 points

CHAPTER QUIZZES

90 points (9% of the grade)

For each quiz, the highest attempt counts. Each is worth 20 points. If you submit a partially completed paper, the grade will reflect the % completion.

PROCTORED TESTS (IN-CLASS)

750 points (74% of the grade)

There will be five proctored exams. Exams will be given in class during designated class time.

All Exams are CLOSED NOTE AND CLOSED BOOK. Use of a personal calculator, statcrunch and instructor provided formula sheet are allowed. Exam reviews (counted as extra credit) are posted with questions *very* similar to the exam questions. A conscientious effort on these reviews will leave you very well prepared for the exams. Each Exam is worth 150 points. There will be **NO MAKEUPS** and **NO RETAKES** of any proctored exam without prior notification and certified personal or family emergency. Any missed exam will count as a **ZERO**.

EXTRA CREDIT

54 points

- Test Reviews: Exam reviews are posted on Pearson with questions *very* similar to the exam questions. A conscientious effort on these reviews will leave you very well prepared for the exams.
- Learning Outcomes Quizzes: There are 4 Learning Outcome quizzes (problem solving, number sense, visual representations and order of operations) on Pearson. These quizzes are strictly for data collection and hold no weight towards your final grade.
- Integrated Homework

Additional Policies & Information:

Late Work Policy:

Homework assignments and chapter quizzes can be turned in late for a grade deduction. The last day to turn in any late assignments is at the time of the final exam. No make-up tests 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 due unless the emergency prohibits it and you will 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. 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.

Canvas & Patriots Mail:

Canvas is the main mode of communication for this course. Any important and immediate information will be posted in the announcements or through the canvas inbox. You are expected to log-in at least one per day to check announcements and work on assignments. Typically, Canvas messages are sent to your Patriots mail, therefore you will want to check this daily as well.

Supplemental Websites:

If you need more examples or a different way of approaching the problem try using YouTube or [Khan Academy](#) (not supported by Internet Explorer). Once on the website, search for the topic that you are having trouble with. YouTube will have countless videos of people all over the world answer questions and showing calculator steps. Khan Academy has videos as well, but within each unit, there are also practice problems that you can use to supplement your Math Lab practice.

Statcrunch:

Much of this course can be done using Statcrunch. It is like excel, but more stat friendly. Your StatLab access code comes with **free** access to Statcrunch. You can create box plots, scatterplots, confidence intervals, perform hypothesis testing, and so much more! Within each lesson presentation, videos showing Statcrunch steps will be included. These videos will take you through the process of using Statcrunch to answer questions from that chapter or section. This tool will be available during exams.

How to be Successful in This Course

The general rule for a three-credit class is that you spend approximately 3 hours per credit hour (9 hours total) per week interacting with the material and studying **outside** of class. However, you may find that you need to spend more than 9 hours per week interacting with the material.

V. Course Schedule/Outline

Class Date	Sections Covered	Topic	Assignments	Due Date
Aug 16		Syllabus		
Aug 18	Chapter 1	Sampling & Bias	HW: Chapter 1 Quiz: Chapter 1	Aug 22
Aug 23	2.1,2.2,2.3	Frequency Distributions	HW: 2.1,2.2	Aug 29
Aug 25	2.3,2.4	Graphics and Correlation	HW: 2.3	Aug 29
Aug 30	2.4,3.1	Measures of Center	HW: 3.1,2.4 Quiz: Chapter 2	Sept 5
Sept 1	3.2	Measures of Variance	HW: 3.2	Sept 5
Sept 6	3.3	Measures Variance & Relative Standing	HW: 3.3 Quiz: Chapter 3 Test 1 Review	Sept 12
Sept 8	Ch 1-3	Review	Test 1 Review	Sept 13
Sept 13	Ch 1-3	Test 1: Chapter 1-3		
Sept 15	4.1, 4.2	Probability	HW: 4.1	Sept 19
Sept 20	4.2, 4.3	Probability	HW: 4.2	Sept 26
Sept 22	4.3, 4.4	Probability, Perm & Combinations	HW: 4.3, 4.4 Quiz: Chapter 4	Sept 26
Sept 27	5.1, 5.2	Binomial Distribution & Expected Value	HW: 5.1,5.2 Quiz: Chapter 5 Test 2 Review	Oct 3
Sept 29	Ch 4 & 5	Exam 2 Review	Test 2 Review	Oct 6
Oct 4	No Class—Professional Development Day			
Oct 6	Ch 4 & 5	Test 2: Chapters 4 & 5		
Oct 11	6.1	Normal Probability	HW: 6.1	Oct 17
Oct 13	6.2	Normal Probability	HW: 6.2	Oct 17
Oct 18	6.4	Central Limit Theorem	HW: 6.4 Quiz: Chapter 6	Oct 24
Oct 20	8.1	Hypothesis Testing	HW: 8.1	Oct 24
Oct 25	8.2	Hypothesis Testing	HW: 8.2	Oct 31
Oct 27	8.3	Hypothesis Testing	HW: 8.3 Quiz: Chapter 8 Test 3 Review	Oct 31
Nov 1	Ch 6 & 8	Test 3 Review	Test 3 Review	Nov 8
Nov 3	Ch 6 & 8	Test 3: Chapters 6 & 8		
Nov 8	7.1	Confidence Intervals	HW: start 7.1	Nov 14
Nov 10	7.1	Confidence Intervals	HW: finish 7.1	Nov 14
Nov 15	7.2	Confidence Intervals	HW: 7.2 Quiz: Chapter 7	Nov 21
Nov 17	9.1	Two Proportions	HW: 9.1	Nov 21

Class Date	Sections Covered	Topic	Assignments	Due Date
Nov 22	9.2, 9.3	Two Means (independent & dependent)	HW: 9.2,9.3 Quiz: Chapter 9 Test 4 Review	Nov 28
Nov 23—25	No Classes—Campus Closed for Break			
Nov 29	Ch 7 & 9	Test 4 Review	Test 4 Review	Dec 1
Dec 1	Ch 7 & 9	Test 4: Chapters 7 & 9		
Dec 6	Final Exam from 2:00 p.m.—4:00 p.m.			

All missing work must be turned in prior to the final exam!!!

Notes: All assignments (except test reviews) are due on Monday nights! 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.

VI. Additional statements for this course

Additional Tutoring:

Tutoring is FREE for CF students! There are 3 options available:

- Ocala Campus—Mathematics Lab
 - Building 7, Room 106 (drop in only)
 - Monday—Friday from 8:00 a.m. to 4:30 p.m.
- Ocala Campus-Learning Support Center
 - Building 3, Room101 (appointment only)
 - 352-854-2322 ext. 1246
 - Monday—Thursday from 9:00 a.m. to 6:00 p.m.
- Smarthink Tutoring Online
 - Available through Canvas and as a “Question Help” option on Pearson HW assignments

****Citrus and Levy have on-campus tutoring available as well****

Do You Need Financial Aid?

Attendance Verification is submitted each semester, generally in the third week of the term. Federal Student Aid requires that attendance is based on academic attendance or attendance at an academically-related activity. For this class, your attendance is verified based on **Chapter 1 Skills Check** on Pearson MyLab Statistics.

Early Support Program (ESP)

The College of Central Florida is committed to helping you succeed and achieve your academic, personal and career goals. One of the ways we can accomplish this goal with you is through an Early Support Program. Our philosophy, based on extensive research and practice, is that 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. Therefore, you may be contacted by your First Year Success Specialist, program Advisor and/or other resources on our campus if there is a time during the semester I feel it would be beneficial to your continued success. I am always your first point of contact for any concerns that affect your success or with course content, so I encourage you to come to me to discuss those issues. Also, be assured that I will first communicate any concerns I have with you and will then connect you with the other areas on our campus to help develop a network of support for you.

Technology Requirements

This course uses Canvas to post course materials. Go to [MyCF](https://mycf.cf.edu/ICS/) (mycf.cf.edu/ICS/), login, click on the Academics tab, and follow the link to Go to Canvas. If you are not familiar with Canvas, you may access a self-tutorial by hovering over the Courses tab in Canvas and clicking on the Getting Started in Canvas course. Additional Canvas tutorials can be found under the help menu in the upper-right corner of your Canvas page. If you have any questions or encounter any problems logging on to Canvas or within the system, contact the Distance Learning Help Desk Monday through Friday, 8 a.m.-4:30 p.m. (fall and spring hours), or Monday through Thursday, 8:00 a.m.-4:30 p.m. (summer hours), at dlhelp@cf.edu or at 352-854-2322, ext. 1317. You may also use the 24/7 Canvas help desk by clicking the Help link in the upper right corner of Canvas.

Library Resources

The CF Libraries are here to help with your research and information needs. Search the library catalog (library.cf.edu), or contact the Ocala campus library (library@cf.edu, 352-854-2322 x1345) or the Citrus campus library (citruslb@cf.edu, 352-249-1205) with questions. Learn more about research help, online and database searching, and citing your sources by visiting the CF Virtual Library (cf.libguides.com) or by visiting the Ocala library (Building 3) or Citrus library (Building C2, Room 202) for one-on-one help. Course reserves: Course textbooks and/or supplemental course material may be on reserve at the Library. Please call to inquire. If the item you are looking for is not on reserve, ask your instructor if they are able to place a copy on reserve.

Correspondence

Please allow 24 hours for a response Monday morning through Friday afternoon and up to 48 hours for a response Friday evening through Sunday evening. Scheduled holidays may extend the response time.