

## STA 2023: Statistics (eLearning)

### I. Semester Information

Course Information: STA 2023: Statistics

CRN: 51082

Credit Hours: 3 hours lecture, 3 hours credit

Pre-Requisites: Math placement test score (PERT: 114-122 (or) Accuplacer Algebra: 72-87 (or) SAT Math: 24.0 (or) ACT Math: 19) or minimum grade of "C" in MAT 0012 or Flexible Placement

Current Semester: Summer 2023

The syllabus is subject to change. The syllabus for the course will be posted in Canvas and available the first day of the semester.

### II. Contact Information

Instructor: Hadley Pridgen, BS Mathematics, MS Mathematics/Applied Statistics, EdS Mathematics Education. I have been teaching at Gulf Coast State College since 2008 and primarily teach statistics and calculus. Prior to teaching at GCSC, I taught physics and mathematics at Mosley High School. I am a graduate of both Mosley and Gulf Coast. I have been teaching eLearning statistics since 2013.

Instructor Phone: 850-769-1551x3345

Instructor Email: [hpridgen@gulfcoast.edu](mailto:hpridgen@gulfcoast.edu)

Division Chair: Angelia Reynolds, [areynolds@gulfcoast.edu](mailto:areynolds@gulfcoast.edu); 850-872-3852

Division Administrative Assistant: Scott Spencer, [sspencer@gulfcoast.edu](mailto:sspencer@gulfcoast.edu); 850-747-3229

### III. Approved Course Materials and Resources

Required Textbook/Access Code: Elementary Statistics with MyLab Access, Larson, 7th edition, 2019, Pearson, ISBN 9780135989296 (18 week) or 9780134683577 (24 month).

Optional Textbook: You may purchase a physical textbook to go along with the required MyLab access. Packages of both are available at the bookstore.

Required Materials: TI-83/84 family calculator.

### IV. Curriculum

Course Description: Topics include summarization of data, probability, probability distributions, normal distribution, statistical estimation, testing hypotheses, linear correlation/regression, and non-parametric statistics. (The combination of STA2023 and STA2122 will not meet the six-hour math General Education requirement. An additional three hours in math will be required.)

Method of Instruction: This course is offered through e-Learning and requires students to complete the course through self-study with proctored examinations. Students are expected

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to view a video on each topic within the unit, complete MyLab assignments, and take a proctored test at the end of each unit during specified windows. At the end of the course, students will take a proctored comprehensive final exam. The tests and final exam can be taken at a GCSC campus or with an approved proctor. The Statistics videos and study guide are available on Canvas.

### Broad Goals of this Course:

- To gain knowledge of elementary statistics
- To be aware of the capabilities and limitations of statistical methods
- To develop mathematical problem-solving skills
- To enhance calculation skills
- To acquire skills necessary to apply statistical reasoning to real-world applications

### Student Learning Outcomes:

- Apply the definitions of statistical terms.
- Compute, display, and interpret descriptive statistics using graphs and numeric measures.
- Apply the principles of probability to given situations including discrete and continuous random variables.
- Apply the concept of confidence intervals and the underlying theory.
- Perform hypothesis tests for one population, two population, and non-parametric small sample situations.
- Compute the components of linear correlation and linear regression.

## **V. Student Expectations of the Instructor**

Office Hours: I am available for office hours each week. The specific hours will be posted in Canvas the first week of classes. You may arrange to meet with me outside of official office hours with advanced notice.

Email/voicemail response time: I respond to emails normally within 24-48 hours with the exception of weekends and holidays. I will respond to voicemails upon return to my office. Email is the fastest way to get in contact with me.

Learning Management System Usage: I use Canvas as a repository of information and communication with my eLearning students. Each unit will have information posted on the material covered as well as outside resources that I find beneficial for student reference, including calculator guides and course videos. Canvas is integrated with MyLab so that students can access their MyLab assignments directly through Canvas. The gradebook will be set up to calculate current averages. Course evaluations will also be administered via Canvas.

## **VI. Expectations of the Student**

Academic Integrity: Honest participation in academic endeavors fosters an environment in which optimal learning can take place and is consistent with the college's mission. Academic misconduct, including cheating or plagiarism, is destructive to the spirit of an

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educational environment and therefore will not be tolerated. "Cheating" includes, but is not limited to, the use of any unauthorized assistance in completing course work. "Plagiarism" includes, but is not limited to, the use by paraphrase or direct quotation of the published or unpublished work of another person without full and clear acknowledgment. Sanctions for incidences of academic misconduct, depending on the severity of the incidence and/or its repetition, may range from receiving an F grade (or zero) for the test, assignment, or activity, to failure of the course, to suspension or dismissal from the program or the College.

Accessibility Statement: Gulf Coast State College supports an inclusive learning environment for all students. If there are aspects of the instruction or design of this course that hinder your full participation, reasonable accommodations can be arranged. Prior to receiving accommodations, you must register with Student Accessibility Services. Appropriate academic accommodations will be determined based on the documented needs of the student. For information regarding the registration process, email [sar@gulfcoast.edu](mailto:sar@gulfcoast.edu) or call 850-747-3243.

Recording of Lectures: In accordance with federal and state privacy laws, students may record class lectures for their own personal educational use, in connection with a complaint to the college, or as evidence in internal or external legal proceedings. Students may not publish or upload the recordings or any components thereof without the knowledge and written permission of the faculty member. Failure to obtain permission to publish could lead to the students' having to pay damages, attorney fees, and court costs. For more information about what can be recorded, please see the guidelines on pages 36-38 in the GCSC Student <https://www.gulfcoast.edu/current-students/student-handbooks/2022-2023-student-handbook.pdf>.

Attendance Policy: Students are expected to complete homework and tests by specified due dates. The course is divided into four units and all unit activities must be completed by the unit's due date. The final exam must be completed by its due date during the last week of the semester. Within each unit, students may organize the activities based on their own schedule with a suggested pacing schedule provided in Canvas. If a student misses both Test 1 and Test 2 without contacting the instructor, they may be withdrawn. Additionally, if the student does not complete an academic assignment during the first two weeks of class, they will be marked as a no-show.

Withdrawal Policy: Two withdrawals are permitted per course. After that, a grade will be assigned. Please be concerned about withdrawals. When admitting students into certain programs, universities may calculate withdrawals as grades. There are two kinds of withdrawals.

- **Student Withdrawal:** Students may withdraw from a course prior to the scheduled withdrawal deadline published in the college catalog. The form is on the Internet.
- **Administrative Withdrawal:** This withdrawal is completed by an instructor for excess absences. Withdrawals initiated prior to the published withdrawal deadline

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will be recorded as "W". After the withdrawal deadline, a student cannot be withdrawn from the course and will receive a grade.

Grade Forgiveness: A student may repeat a course when a grade of "D" or "F" has been earned. The last grade counts. However, universities may count forgiven grades in calculating the grade point average. Forgiven grades may also be calculated in determining financial aid eligibility.

Attempts: This course, which is a college credit course, may be attempted three times. On the third attempt, 100% of the full cost of instruction will be charged. Students with major extenuating circumstances may submit a letter of appeal stating the circumstances to Counseling Center. All grades from the third and subsequent attempts will be calculated in the grade point average.

### **VII. Measures of Student Performance**

Method of Assessment: There will be four proctored tests and one proctored final exam for this course. Each test will be worth 15% of your final grade and cover material from the previous unit. After completing the test, students will be eligible for partial credit for reworking missed problems completely and fully. The final exam is comprehensive and will be worth 20% of your final grade. The remaining 20% of your grade will be formative assignments from MyLab over each unit. If no unit exams are missed, the final exam may substitute for the lowest unit test grade.

GCSC Grading Scale: The college catalog will be used to convert the numerical average to a letter grade. The college grading scale is: A (100-90), B (89-80), C (79-70), D (69-60), and F (59-0).

Make-up Work: If a unit test is missed, the final exam may replace it if a mutually agreeable make-up time cannot be determined. Approximately 10% of possible points earned by MyLab formative assignments will be omitted.