NORTHWEST FLORIDA STATE COLLEGE

STA 2023 Course Syllabus

Course Name: Statistics
Course Number: STA 2023
Section (CRN): 10677
Credit Hours: 3
Instructor Name: Ramses Diaz
Instructor Office Location: (DS - 501) / 217
Instructor Email: diazr3@nwfsc.edu

Course Curriculum

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.

Broad Goals

The goal of this course is to (1) introduce the student to basic statistical terms and concepts; and (2) provide students with the skills necessary to apply statistical analysis and reasoning to real-world applications.

Objectives

Student Learning Outcomes:

- Students will visualize and summarize data using descriptive statistics.
- Students will apply basic probability concepts to draw reasonable conclusions.
- Students will employ concepts of random variables, sampling distributions, and central limit theorem to analyze and interpret representations of data.
- Students will choose an appropriate method of inferential statistics, including confidence intervals and hypothesis testing, to make decisions about a population based on sample data.
- Students will model linear relationships between quantitative variables using correlation and linear regression.
- Students will use calculators and/or software to apply statistical analysis and reasoning to real-world applications.

Expectations of the Instructor and Course

a. Office Hours: I am available during scheduled office hours at least 10 hours each week. I can also be available at other times. You can contact me via email (preferred) at diazr3@nwfsc.edu or phone 850-200-4118 to schedule an appointment. My office hours will be posted on my office door and in Canvas once the semester begins.

b. Expected email/voicemail response times: I anticipate responding to inquiries and questions within 24-48 hours of receipt, except on weekends and holidays.

c. Learning Management System Usage: Many (if not all) assignments in this course are completed and/or submitted via ALEKS and/or Canvas. Access to a computer is therefore required for this course, with Chrome being the recommended browser. Canvas and ALEKS list minimum computer specifications and supported browsers to ensure compatibility. Canvas and ALEKS resources are available for students to learn more about these systems. Students have free access to computers at all campuses.

d. ALEKS: This system is utilized for assignments and/or assessments and provides students with immediate feedback in learning mode.

Expectations of the Student

a. ACADEMIC INTEGRITY: Active and honest engagement in academic pursuits contributes to an environment conducive to optimal learning, aligning with the college's mission. Conversely, academic misconduct, such as cheating or plagiarism, undermines the integrity of the educational atmosphere and will not be tolerated. "Cheating" encompasses any unauthorized aid in completing coursework. Depending on the severity and frequency of such misconduct, sanctions may range from receiving a failing grade or zero on a test, assignment, or activity, to course failure, or possible suspension or dismissal from the program or college.

b. Attendance Policy: Regular attendance and participation are significant factors that help to promote success in college. Students are expected to attend ALL class meetings of all courses for which they are registered.

Attendance Confirmation

Active participation and academic engagement are expectations of enrollment in this course. Faculty confirm each student's attendance in class after the schedule adjustment period ends. Students who have not attended class or otherwise engaged academically in the course through the submission of an academic assignment or through participation in a curricular activity may be withdrawn from the course for nonattendance.

Students who are withdrawn for nonattendance or nonparticipation early in the course may request to be reinstated in the course by contacting their instructor by email. Reinstatement in the course is at the instructor's discretion during the first three weeks of class and is not guaranteed. Reinstatement requests occurring after this three-week period may be submitted to the instructor for consideration; however, additional administrative approval will be required to grant the reinstatement. If you are withdrawn from a course due to nonattendance and are not granted reinstatement in the course, please contact a Student Success Navigator for assistance.

A. Students are expected to attend all of their scheduled classes, as attendance is one of the strongest predictors of success.
B. Because this is a pre-professional program, students are expected to demonstrate the same professionalism in the classroom as is expected in the workplace.
C. Students are expected to participate regularly in this class.
D. This class may involve frequent class discussions and group work. Students will neither benefit from these activities nor contribute to the class as a whole if frequently absent. Therefore, 3 absences may result in the penalty of zero points in the participation element of the final course grade. Please note that your instructor may drop students who have 3 consecutives absences.

How Student Performance Will be Measured

This course uses various summative assessments to measure student performance toward the student learning outcomes listed above. Grading Scale: A (100-90), B (89-80), C (79-70), D (69-60), and F (59-0).

A breakdown of the final grade is shown below.

Grading Scheme and Procedures
You will achieve the course objectives through interactive lecture, in class practice problems, class participation, homework assignments, and assessments. The grade for this course will be based on homework, five equally weighted exams, and a Final Exam.

Assessment	Percent of Final Grade
Homework	10%
4 Exams	70%
Final Exam	20%
Total	100%

Average of 90 - 100%	A
Average of 80 – 89.9%	B
Average of 70 – 79.9%	C
Average of 60 – 69.9%	D
Average below 60%	F

$$Grade = 0.7 \cdot \frac{Q1 + Q2 + Q3 + Q4}{7} + 0.2 \cdot Final + 0.1 \cdot Homework$$

Incomplete Grades

At the discretion of the instructor, an incomplete grade ("I") may be awarded when the student is unable to finish the required work because of unforeseen extenuating circumstances such as illness or TDY assignment. To receive an "I" grade, the student must have successfully completed a significant portion of the required coursework and be able to finish the remaining work without attending class. An "I" grade will automatically convert to a grade of "F" if the student does not complete the remainder of the coursework by the established deadline.

Make-up Work

If a student misses an exam, the final exam grade will be used to replace this grade. For any further missing exams, the grade will be zero. **There will not be any make-ups**.