

**Syllabus**  
**Math 1342 - Online**  
**Elementary Statistics**  
**Western Texas College**

**I. BASIC COURSE INFORMATION**

A. Course description: Collection, analysis, presentation and interpretation of data, and probability. Analysis includes descriptive statistics, correlation and regression, confidence intervals and hypothesis testing. Use of appropriate technology is recommended.

B. Any required prerequisites: Successful completion of DMT 032 or Math 1332 or placement by college entrance exam scores.

Online course content is administered through the college's learning management system (LMS), D2L (BrightSpace) which is found at: [learn.wtc.edu](http://learn.wtc.edu).

**II. STUDENT LEARNING OUTCOMES**

A. The student will analyze a problem and identify an appropriate technique that leads to the correct solution by applying mathematical logic and problem-solving skills. Success will be measured using an assessment designed to measure this skill.

B. The student will apply very basic arithmetic and algebraic manipulation skills that are necessary to solve statistical problems. Success will be measured using embedded questions in exams. Students will be given multiple opportunities throughout the semester to show mastery.

C. The student will devise a plan to appropriately analyze a given set of data by applying, organizing and interpreting the statistical concepts learned in class. Success will be measured using a embedded questions on assessments. Students will be given multiple opportunities to show mastery.

D. The student will evaluate historical and current events in the field of statistics. Success will be measured using class discussion via forums and personal communication with instructor.

**III. TESTING REQUIREMENTS**

A. The midterm and final exam must be proctored by an approved testing organization. (Ask you instructor for more details.)

B. Students are NOT allowed to use their book or notes of any kind while taking their proctored midterm and final exam.

Students are allowed to use a calculator. However, the TI-89, TI-Inspire with CAS or any other calculator with CAS capability are not permitted.

#### IV. MAJOR COURSE REQUIREMENTS

- A. Major Requirement - There will be a midterm and final exam.
- B. Major Requirement - There will be numerous textbook and activity quizzes.
- C. Major Requirement - There will be a project.
- C. Major Requirements are timed.
- D. Textbook Quizzes (30%), Activity Quizzes (30%), Project (10%), Major Tests 30%

#### V. INFORMATION ON TEXTBOOK AND OTHER COURSE MATERIALS

A. Recommended Book: Elements of Statistics 9th Edition By Canada - BVT Publishing

ISBN 978-1-62751-339-5 (notebook version) 978-1-61882-125-6 (softback version)

The textbook is provided.

B. Online access: Students will access course materials via MOODLE (ecampus.wtc.edu. It is essential that students have reliable and frequent access to a computer.

C. Calculators: A standard calculator with square root and log function.

#### VI. OTHER POLICIES..

Please refer to the WTC Course Catalog (<http://www.wtc.edu/publications.html> then on the appropriate area) to find the following information:

- A. Campus Calendar
- B. Final exam schedule
- C. How to drop a class
- D. Withdrawal information
- E. Student Conduct/Academic Integrity
- F. Class Attendance
- G. Students with disabilities

## VII. COURSE ORGANIZATION AND SCHEDULE

### Course schedule

<b>Covered in Topic</b>	<b>Textbook</b>	<b>Topic</b>	<b>Major Test</b>
1/2	Chapter 1	Introduction, basic concepts, overview of course and statistical process	
3	Chapter 2	Summarizing and graphing data	
4	Chapter 3	Measures of central tendency and variability	
5	Chapter 4	Probability and Project Assignment #1	
6	Chapter 5	Probability distributions	
7	Chapter 6	Normal Probability Distribution	
8			Midterm
9	Chapter 7	Estimates and sample sizes / Project Assignment #2	
10	Chapter 8	Hypothesis Testing	
11	Chapter 9	Inferences from Two Samples	
12	Chapter 10	Regression/Correlation	
13	Chapter 11	Contingency Tables	
14		Project Assignment #3	Course Review
15	Final Exam	Review	Final Exam

**Disclaimer:** *"The above schedule, policies, procedures, and assignments in this course are subject to change in the event of extenuating circumstance."*