

MATH 11
(Section #51782)
MW 6:00-7:50 P.M.
CCI-206

Intermediate Statistics

REEDLEY COLLEGE
Spring 2022
1/10-5/20/2022

Instructor: Bob Rutherford
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COURSE DESCRIPTION: This is an introduction to statistical methods and techniques for business, behavioral, and social science majors. Topics include descriptive measures of central tendency and variability, probability, binomial and normal distributions, random variables, sampling, estimating, hypothesis testing (parametric and nonparametric), correlation and regression.

BASIC SKILLS ADVISORIES: Eligibility for ENGL 126

SUBJECT PREREQUISITES: Math 103

OBJECTIVES: In the process of completing this course, students will:

- A. Summarize and describe given data sets
- B. Apply the methods of descriptive statistics to determine the measures of central tendency and variability to a variety of problems.
- C. Apply basic principles of probability to determine probabilities of a variety of events.
- D. Analyze discrete and continuous probability distributions.
- E. Explore the basics of sampling theory.
- F. Estimate population parameters through studying confidence intervals.
- G. Examine hypothesis testing for small and large samples and multiple populations.
- H. Determine if a relationship exists between quantitative variables.

Text: Ron Larson and Betsy Farber, Elementary Statistics, Picturing the World, 7th edition, Pearson

Text and MyStatLab Access Code:

You can buy the bundled textbook (which includes the textbook and access code for MyStatLab at the Reedley College Bookstore. Be careful, once you open the kit you will not be able to return the book for a full refund. You can also purchase the access code by itself, without the book. The book is available electronically through the website. If you are using the temporary access code, it is your responsibility to pay for access by the expiration date or you will not be able to input assignments for credit.

MATERIALS REQUIRED: Pencil, paper, ruler, graph paper, Texas Instruments TI-30XIIS calculator

ATTENDANCE: Students are expected to attend all class meetings, be on time, and be in class the entire class session. Students are required to participate in all class discussions and activities. Each evening will count as two (2) class sessions. Arriving late or leaving early will be counted as an absence. Missing an entire evening will count as two (2) absences. Eight (8) absences (which is missing four evenings) may result in a drop from the course. If you

decide to drop the course it is your responsibility to make the drop official in the Administration and Records Office or you could receive an F grade. The drop deadline is March 11, 2022. There is no class on January 17 or February 21. Spring break is April 11-15.

Online Homework:

Online homework assignments are completed on the MyStatLab website. You may work ahead if you like. You can access and complete any past due assignments and earn 60% credit on the past due problems up until the chapter exam. It is important to stay current to be successful in the course! I strongly suggest you keep good notes of the work you do online. They will come in handy at test time. Homework not turned in because of absence is considered late.

Written Homework:

There may be written homework assignments for the semester. All work must be shown in order to receive full credit for these assignments. Your homework will be graded on completeness, neatness, and effort. If you come to class after the HW has been collected or are absent it will not be accepted for full credit. You can turn it in by the next class period for 60% credit.

In-Class Assignments:

There may be in-class assignments and possibly group projects assigned throughout the semester. No in class assignments can be made up so attendance is very important.

TESTS: There will be chapter tests, occasional quizzes, and a comprehensive final exam. The final exam is scheduled for Monday, May 16, 2022, during the regular class time. All make up exams must be arranged for and taken ahead of time. Missing any test without prior arrangements will result in a zero on the test.

SPECIAL NEEDS REQUESTS: If you have special needs as addressed by the Americans with Disabilities Act (ADA) including alternate media requests, please notify your course instructor immediately. Reasonable efforts will be made to accommodate your special needs.

GRADING: Tests and quizzes account for approximately 70% of your grade, homework will account for approximately 25% of your grade, and class projects will account for approximately 5% of your grade. A lack of participation in class activities will result in a deduction of your grade.

The grading scale will be:

<u>Percent of Total Points</u>	<u>Grade</u>
90-100	A
80-89	B
65-79	C
55-64	D
0-54	F

Please turn off cell phones, pagers, etc. during class. Cell phones are not allowed to be used as calculators. Also, children are not allowed in class.