

Reedley College - Spring 2019 - Course Syllabus

Math 11, Elementary Statistics, Section #52364

Instructor: Ms. Monica Cuevas **Class time:** Mon. & Wed.; 6pm – 7:50pm **Class Location:** CCI-200
Office hours: by appointment or email **Email:** monica.cuevas1@reedleycollege.edu

Basic Skills Advisories: English 125 and 126 or equivalent

Subject Prerequisites: Math 103 or equivalent

Required Material:

- **Textbook (Optional):** Mario F. Triola. *Essentials of Statistics*, 6th edition.
- **Online Access Code (Required):** Students are required to purchase the MyMathLab access code. The access code can be purchase at the bookstore or online at www.pearsonmylabandmastering.com.
 - Students who do not create a temporary or permanent MyMathLab account by January 15 will be dropped from the course.
 - Students who do not have a permanent MyMathLab account by January 25 will be dropped from the course.
- **Technology:** Students are required to have access to a computer with high-speed internet. Your browser (i.e. Google Chrome, Firefox, etc.) must have specific plug ins. Clearing your cookies and always allowing pop-ups avoids issues. Most computer labs on campus have computer with high-speed internet. **Technology problems are not an excuse to missing homework.**
- **Additional Material:** A notebook, pencils, ruler, non-graphing scientific calculator, and a yellow highlighter.

Attendance and Tardy Policy:

- All students are expected to attend every class, be on time, and stay for the entire class.
- Any late arrival and leaving class early will be considered an absent.
- If a student is tardy or absent, it is his/her responsibility to catch up by obtaining notes from a fellow classmate.
- If a student is late it is their responsibility to inform the instructor, so that the absence can be changed to a tardy.
- If a student is absent for **3 or more days** (not necessarily consecutive days), then the student will be dropped from the class.
- If a student wants to drop the class, it is their responsibility to drop the class by going to WebAdvisor or Admissions and Records.

Behavioral, Campus, and Class Policy:

Students engaging in disruptive behavior which interferes with the learning of others will be asked to leave the classroom. Such behavior includes engaging in conversation with another student, regular tardiness, sleeping in the classroom, and not following directions. The use of technology in the classroom is prohibited. Cell phone, pagers, or any electronic device must be turned off or silence, and needs to be put away. No earphones/headphones can be worn during class. **Cell phones cannot be used as calculators.** No food or drinks will be allowed in the classroom, except for water.

Plagiarism and Cheating:

Reedley College rules on plagiarism will be enforced. Students that are caught cheating and students that allow others to copy their work will receive 0% on that assignment (homework, chapter exams, final exam, or any other assignment). Using a cell phone during the test will be considered cheating regardless of the reason using it.

Grading Policy: 25% - Homework 70% - Chapter Exams and Final 5% - Quizzes

- The Tutorial Center is located in the library. It provides free tutoring for all Reedley College students. Tutoring is available by appointment or on a drop-in basis. The days and times are listed below.

Monday – Thursday 8:00 am to 5:00 pm
 Friday 8:00 am to 3:00 pm

Important Dates (SPRING 2018):

- January 14 (M) - Start of Spring 2019 semester
- January 21 (M) - Martin Luther King, Jr. Day observed (no classes held, campus closed)
- January 25 (F) - Last day to drop a Spring 2019 full-term class for full refund
- February 1 (F) - Last day to register for a Spring 2019 full-term class in person
- February 1 (F) - Last day to drop a Spring 2019 full-term class to avoid a “W” in person
- February 3 (SU) - Last day to drop a Spring 2019 full-term class to avoid a “W” on WebAdvisor
- February 8 (F) - Last day to change a Spring 2019 class to/from Pass/No-Pass grading basis
- February 15 (F) - Lincoln Day observance (no classes held, campus closed)
- February 18 (M) - Washington Day observance (no classes held, campus closed)
- March 8 (F) - Last Day to drop a full-term class (letter grades assigned after this date)
- April 15-18 (M-Th) - Spring recess (no classes held, campus open)
- April 19 (F) - Good Friday observance (no classes held, campus closed) (classes reconvene April 22)
- May 20-24 (M-F) - Spring 2019 final exams week
- May 24 (F) - End of Spring 2019 semester/commencement
- **The final is scheduled for Monday, May 20, 2019 in room CCI-200.**

Accommodations for students with disabilities:

- If you have a verified need for an academic accommodation or materials in alternate media (i.e., Braille, large print, electronic, etc.) per the Americans with Disabilities Act (ADA) or Section 504 of the Rehabilitation Act, please contact the teacher as soon as possible.
- It is the student's responsibility to schedule their appointments (for tests, finals, etc.) with the DSPS office as soon as they are announced in class. Any special arrangements need to be done in advance and in writing. No last minute or same day arrangements will be tolerated.

Course Description:

This course is an introduction to statistical methods and techniques with applications in the fields of business, behavioral and social science, as well as in science, technology, engineering, and mathematics. 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.

Course Objectives:

By the end of this course students should be able to:

- Distinguish among different scales of measurement and their implications.
- Identify the standard methods of obtaining data and identify advantages and disadvantages of each.
- Interpret data displayed in tables and graphically.
- Calculate measures of central tendency and variation for a given data set.
- Apply concepts of sample space and probability.
- Calculate the mean and variance of a discrete distribution.

- Calculate probabilities using normal and t-distributions.
- Distinguish the difference between sample and population distributions and analyze the role played by the Central Limit Theorem.
- Construct and interpret confidence intervals.
- Determine and interpret levels of statistical significance including p-values.
- Interpret the output of a technology-based statistical analysis.
- Identify the basic concept of hypothesis testing including Type I and II errors.
- Formulate hypothesis tests involving samples from one and two populations.
- Select the appropriate technique for testing a hypothesis and interpret the result.
- Use linear regression and ANOVA analysis for estimation and inference and interpret the associated statistics.
- Use appropriate statistical techniques to analyze and interpret applications based on data from disciplines including business, social sciences, psychology, life science, health science, and education.

❖ Instructor reserves the right to make minor changes to the syllabus.