Math 11, Elementary Statistics, Section #52084

Welcome To Math 11! Looking forward to having you in class!

Instructor: Ms. Lina Obeid   **Class Time:** M to TH; 11:00 am to 11:50 am   **Class Location:** CCI206   **Office:**   FEM 4A
Office Hours: M, T, TH at 9am or by apt   **Phone:** 638-0300, ext. 3184   **E-Mail:** lina.obeid@reedleycollege.edu
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Advisories: English 125 and 126   **Prerequisites:** Mathematics 103
Students stand may not be as successful or may drop from the class if they have not fulfilled the pre-requisites before enrolling.

Optional Textbook (Paperback): Mario Triola, Essentials of Statistics, 5th Edition **(e-book required)**
Optional Reading Material: Huff, Darrell. (1993). *How To Lie With Statistics*. Other good books: *Freakonomics*; *Outliers*.

Required Materials:
To succeed, it is important to have the needed materials. Please make sure to get them as soon as possible.
- Online access code: This course **requires** students to purchase Pearsonmylab access code (includes e-book and homework assignments). This access code may be purchased at the bookstore or online at pearsonmylabandmastering.com , also called "mymathlab".   This site gives you access to the homework assignments, your grades, e-book, and other resources. *Assignments and grades are posted on* pearsonmylabandmastering.com *site and NOT on Canvas. The syllabus, the lectures, and other documents are posted on Canvas.*
- Temporary access code: The Pearsonmylab site offers students a *temporary* access code which allows students to sign up and work for a few days without paying. The deadline for that grace period is posted on the login page every time a student logs in to pearsonmylabandmastering.com. The publisher will deny access to students who do not pay by the grace period's deadline. It is the student's responsibility to pay to ensure access to their assignments. Class policy requires students to pay for a permanent access code before the deadline, preferably the first week of school. (Please note that financial reasons or procrastination is not an excuse to missing assignments, exams, or tests.)
- Required technology: This class might require students to access and/or to print materials from pearsonmylabandmastering.com or Canvas. This class requires access to a computer with a high-speed connection. Your browser (i.e. Google Chrome, firefox, etc.) must have specific plug-ins. Avoid using Internet Explorer. "Always" allow cookies and allow pop-ups to avoid issues. *Students need to make sure they have access to the proper technology. Most labs on campus as well as the Math Center have the proper technology. If you are having issues accessing the site at home, then immediately go to the MATH CENTER in FEM1 to get help and complete the work.* **(Please note that technology problems are not an excuse to missing assignments.)**
- Additional required materials: Students need to come to class ready with printed outlines of the lectures, Cambridge spiral graph notebooks for homework, yellow highlighter, ruler, sharpened pencils, eraser, scantrons, and a scientific **TI 83/84calculator; Other calculators will not have the Statistics package needed.** Class assignments are on pearsonmylabandmastering.com.

Attendance and Tardy Policy:
Please make your education a priority. To succeed and to help us help you, please attend and participate on daily basis.
- Students who miss the first day of class may be dropped as a "No Show".
- Attendance is not optional. Emailing or calling does not excuse an absence or tardy. Students are expected to attend every class, arrive on time, and stay for the entire class period. **Late work is not accepted**.
- If a student arrives late, it is his/her responsibility to inform the instructor after class, so the absence can be changed to a tardy. Two tardies or two partially missed lectures count as an absence.
- **Students are expected to print the lecture outlines from CANVAS and take notes on them in class.**
- A student who is absent or late is responsible to get him/herself updated on the missed materials. The student will need to ask a fellow student for a copy of the notes, the missed assignments or information. Students can use the math/tutorial center available at Reedley College if they need help understanding the missed material.
- A student *may* be dropped by the instructor after 10 absences (not necessarily consecutive class periods) or if the students does not sign up and work on MYMATHLAB in a timely manner. If a student decides to no longer be enrolled in the class, it is then the student's responsibility to drop in a timely manner to avoid receiving a "W" or an "F", following the Reedley College course schedule or catalog's deadlines.

Behavioral, Campus, and Academic Policy:
To foster a good and safe classroom environment, it is important that students adhere to class and college policies.
- Reedley College campus policies and academic regulations will be implemented in this class.
- By enrolling in this class, the student agrees to adhere to any and all class policies, rules, regulations and guidelines and to Reedley College campus' policies and academic regulations.
- Students not following directions or engaging in behavior the instructor deems disruptive may be asked to leave or may be removed for the remainder of that class. Food or drink (except bottled water) is **not** allowed in the classroom as per college rules.

- Teacher reserves the right to assign seats.
- Students must act and communicate professionally in class and online/in emails.
- <u>This class has an electronic device use policy:</u>
    1) The use of electronic devices in the classroom is prohibited. Electronic devices including but not limited to apple watches, cell-phones, pagers, recording devices, CD/DVD/MP3 players are prohibited in the classroom. Such devices must be turned off, silenced, and put away before entering the classroom. Headphones are not allowed. Students are not allowed to use or operate a recording device at any time in this classroom. Students with disabilities must make arrangements ahead of time for the approved use of a device.
    2) The use of cell phones in the classroom is prohibited and is considered disruptive behavior. Phones need to be silent, out of reach, and out of sight. Students are not allowed to place their cell phones on the desks or in plain view at any time during class, even if set to "silent" or "off". Texting or emailing in class is prohibited regardless of the device. Students using a cell phone or apple-type watches during an exam are considered to be cheating.
    3) Students must make the instructor aware of any electronic device they are using in class, otherwise they are in violation of the policies of this class.

- **Grading Policy:**

Students are graded in <u>two major categories</u> according to the following:

      Homework grades constitute **30%** of the student's overall grade.

      Chapter and Final exams grades constitute **70%** of the student's overall grade.

Grades are posted and updated on pearsonmylabandmastering.com site. It is the student's responsibility to put in the effort needed to get the desired grade. A student struggling to get a desired grade must get tutoring. Free tutoring is available at Reedley College.

- **Homework:** This category includes homework grades.

Your success is very important, so please spend the time and effort needed to study and to do well on your homework.
    - <u>HOMEWORK ONLINE</u>: Homework is assigned on regular basis at pearsonmylabandmastering.com. It is to be completed online at pearsonmylabandmastering.com. Students will be given several tries on each question to get the question right. Homework deadlines must be observed. Late work affects the grades negatively: It loses 30% of the points possible for every day it is late. Each assignment has a due date and the assignment might not be available to the student after the due date.
    - <u>HOMEWORK NOTEBOOKS</u>: In addition to entering answers online, homework exercises must be worked out in pencil step-by-step, thoroughly, completely and neatly. This is a good habit intended to help you study for the exams. Box or highlight answers. **Write the section numbers at the top of each page.** Graphs need to be drawn on graph paper, labeled, titled, and scaled accurately and neatly using a ruler.
    - <u>EMERGENCIES</u>: Personal, financial, professional, or technological problems cannot be used as excuses to get extensions or retakes on homework. **The lowest homework assignment score will be dropped to account for such emergency or issue.**

- **Chapter Exams**: This category includes chapter exams administered throughout the semester.

To succeed, study as much as needed to earn a better grade.
    - All chapter exams are weighted equally. Students are not allowed to leave and return to an exam once started.
    - Exam questions must be answered step-by-step, thoroughly, completely, and neatly to receive full credit. Final answers must be highlighted or boxed. Graphs need to be drawn, labeled, titled, and scaled accurately and neatly using a ruler.
    - Students who are not present will receive a score of zero on that chapter exam regardless of why they were absent. No make-up or retake exam will be given for any reason. *Students are <u>not</u> allowed to take the exam after the scheduled time for any reason.*
    - <u>EMERGENCIES</u>: In case a student has a known unavoidable business on the scheduled exam date or time, he/she will be given the chance to take the chapter exam **before the scheduled date/time** *if and only if* the student makes the appropriate arrangements with the instructor ahead of time (with at least a two business days advance notice). Personal or professional issues will not be accepted as excuses to retake, make-up, or get extension on any exam. **To account for emergencies, the final exam's score may be used to replace the lowest chapter exam score.**
- **The Final exam:** The final exam is a mandatory comprehensive final - it might contain any of the material covered from the entire semester. The final exam weighs as a regular exam. Students are not allowed to leave and return to an exam once started. The final exam score may be used to replace the lowest chapter exam score, but a chapter exam score cannot be used to replace the final exam score. The final exam score will not be dropped or replaced. Students who miss the final exam will receive a 0% on their final exam with no chance of retake or make-up.
    - ➢ **The Final exam will be administered on Wednesday, May 16 at 11am sharp to 11:50am in room CCI206.**

Grading Scale: **Grade and Percent Range**

A=90% - 100%   B=80% - 89%   C=70% - 79%   D=60% - 69   F=Below 60%

Plagiarism: Reedley College rules on plagiarism will be enforced. Students cheating and students allowing others to cheat off of their assignment will receive a 0% on that assignment (whether it is a chapter exam, a final, or any other assignment). Students using a cell phone during a test regardless of the reason are considered to be cheating. <u>Students using or getting unauthorized assistance are considered cheating.</u>

What can you do to improve your grade and your learning outcome?

- Come to class prepared and on time; Attend daily.
- Read the book before attending class.
- Study on average 2 hours for every hour you are in class. Put in the maximum effort daily in every aspect of your work.
- Avoid procrastinating.
- Know what your grade. Talk to your instructor.
- Turn in well thought-out assignments on time with the completed work shown step-by-step.
- Working with others is good for you, so join a study group. Ask fellow students, and tutors for help.
- Attend MATH CENTER (in FEM1) OR the TUTORIAL CENTER (in the Library) for help and tutoring.
- Strong math and pre-algebra skills, as well as excellent study habits, are required to be successful. If you don't have strong math skills, you can compensate for that by having good study habits and putting extra effort into your work.

▶ Important Dates at Reedley College:

January 8	(M)	Start of Spring 2018 semester
January 15	(M)	Martin Luther King, Jr. Day observed (no classes held)
January 19	(F)	Last day to drop a Spring 2018 full-term class for full refund
January 26	(F)	Last day to drop a Spring 2018 full-term class to avoid a "W" in person
January 28	(SU)	Last day to drop a Spring 2018 full-term class to avoid a "W" on WebAdvisor
February 16	(F)	Lincoln Day observance (no classes held)
February 19	(M)	Washington Day observance (no classes held)
March 9	(F)	Last Day to drop a full-term class (letter grades assigned after this date)
March 26 - 30	(M-Th)	Spring break (no classes held)
May 14-18	(M-F)	Spring 2018 final exams week

<p align="center"><strong style="color:red">The Final exam will be administered on Wednesday, May 16
at 11am sharp to 11:50am in room CCI206.</p>

May 18	(F)	End of Spring 2018 semester/commencement

- It is the student's responsibility to ask *the Admissions and Records office or check course schedule for any other dates that pertain to financial aid or drop deadlines of any kind.*

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 test, 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 soon as they are announced in class. **Any special arrangements need to be done in advance and in writing.**

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:

- A. Distinguish among different scales of measurement and their implications;
- B. Identify the standard methods of obtaining data and identify advantages and disadvantages of each;
- C. Interpret data displayed in tables and graphically;
- D. Calculate measures of central tendency and variation for a given data set;
- E. Apply concepts of sample space and probability;
- F. Calculate the mean and variance of a discrete distribution;
- G. Calculate probabilities using normal and t-distributions;
- H. Distinguish the difference between sample and population distributions and analyze the role played by the Central Limit Theorem;
- I. Construct and interpret confidence intervals;
- J. Determine and interpret levels of statistical significance including p-values;
- K. Interpret the output of a technology-based statistical analysis;
- L. Identify the basic concept of hypothesis testing including Type I and II errors;
- M. Formulate hypothesis tests involving samples from one and two populations;
- N. Select the appropriate technique for testing a hypothesis and interpret the result;
- O. Use linear regression and ANOVA analysis for estimation and inference, and interpret the associated statistics; and
- P. 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.*