

Math 11-55651

Mr. Jim Gilmore

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Elementary Statistics

REEDLEY COLLEGE

Fall 2018

Meeting Room: FEM 4

Office Hours: T, Th 8:00-9:50

Welcome to Elementary Statistics

I look forward to spending the semester with you. Over the semester, you will experience a range of feelings, including: success and failure; challenge and boredom; accomplishment and frustration. Please know that I and your fellow students will be here to help you through it. Having persistence, working hard, putting in time and effort will help you succeed.

As your instructor, I will do what I can to give you the resources and support to help you succeed. Please reach out to me if I can help you.

There are many excellent resources available to you on our campus. Other students in class are a good resource and I would encourage you to form small groups to study and do homework together. If you have an unanswered question, come by my office (FEM 1M) which is in the FEM building located in the Math Center. I am available Tuesday and Thursday from 8:00-9:50.

Other available resources are:

- The Math Center in the FEM building, room 1. Hours: M-Th 8:00 AM - 4:00 PM and F 8:30 AM - 12:00 PM. (559) 638-0300 ext. 3158

What is the STEM Math Study Center?

The STEM Math Study Center is a free tutoring resource available to all Reedley College math students. The services available in the MSC are focused on increasing our students' ability to understand and enjoy mathematics. We hope to bridge the gap that keeps our students from pursuing majors and careers in math-related fields. The MSC has a study area in which students can receive services or study alone. In addition to its study area, the MSC contains the offices of most of our mathematics instructors.

What services are available in the STEM Math Study Center?

The MSC offers drop-in tutoring facilitated by our math faculty and well-qualified student tutors. The MSC has 20 computers and online access available to students with online math homework. The MSC offers workshops on specific math topics throughout the semester to enhance and augment the math education offered to students. The MSC offers bilingual tutoring to Spanish speaking students.

How can I use the STEM Math Study Center?

To use the MSC, students must enroll in INTDS 300, a non-credit course. Enrollment forms are available in the center. Once enrolled in the class, students need only to log-in to the MSC computer when they arrive and log-out when they leave.

- Tutorial Learning service located in the library, LRC room 111. Their hours are M-Th 8:00 AM-5:00 PM and F 8:00 AM - 3:00 PM. Phone (559) 638-0358.
- YouTube also has many good videos for help.

[Video for the Academic Support Centers](#)

Course Description: Math 11 is an introduction to statistical methods 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, correlation and regression.

Basic Skills Advisories: English 125 or English 130 and English 126 or 128

Subject Prerequisites: Math 103 or Equivalent

TEXT: Allan Bluman, Elementary Statistics: A Step by Step Approach. A Brief Version, McGraw Hill, 7th Edition, 2015.

Notes: Notes for this class are available in the Bookstore and are **required**. You will need to bring them with you each day to class.

ATTENDANCE: Everyone can learn math, but don't do it alone! Come to class! In class we will be working on developing your understanding of key concepts and we'll be doing a lot of problem solving. Participating in class activities will help prepare you for exams and is truly an integral part of your learning process. Complications can arise during the semester that can impede making it to class on time or even attending, whether that is due to a traffic delay, a child being ill, or missing your ride. If you miss class, before you do anything else contact me by email. You can watch the video of the class and keep up with your notes. If you have trouble with anything in the notes or video, get help in the Math center, tutorial and learning services center, my office, or a friend. It is important that you know the absence policy. If you miss three classes you may be dropped. You are expected to attend all class meetings, be on time, and be in class the **entire** class session. Calling me to tell me you will be absent **does not** excuse you. If you decide to drop the course, it is **your** responsibility to make the drop official in the Administrations and Records office or else possibly receive a grade of **F**.

Behavioral Standards: Your classmates and I would greatly appreciate that you take care of any personal needs (i.e., using the restroom, getting a drink, sharpening a pencil) before class begins. Please turn your phone off, put it out of sight, and remove any earbuds when you come into class. You may **not** use your phone as a calculator. I would appreciate that you not bring guests to class.

NOTE: The drop deadline is October 12.

HOMEWORK: **NO LATE HOMEWORK WILL BE ACCEPTED!** When a student has not satisfactorily completed 3 homework assignments they will be dropped. Any assignment that is not done on time will receive a grade of 0%.

TESTS: There are no makeup exams for missed tests.

GRADING:

- *Homework:* All of your homework scores will be worth the same percentage. Homework worth 10 points and homework worth 15 points will count the same. Each discussion on the discussion board will count as two homework scores. Homework percentages will be averaged to obtain a chapter homework grade. The homework will be worth 35% of the overall grade.
- *In Class Tests:* All of your in-class test percentages will be averaged. In-class tests are worth 65% of the overall grade.

Example: If your homework grade 75% and your in-class test grade is 80%, then you would compute your grade as follows:

$$(75 \times 0.35) + (80 \times 0.65) = 78.25\%$$

This would give you a grade of “C.”

<u>Percent of Total Points</u>	<u>Grade</u>
90-100	A
80-89	B
68-79	C
55-67	D
0-54	F

WHERE TO FIND YOUR GRADE:

- Canvas - Grades.

SPECIAL NEEDS REQUESTS: If you have a verified need for an academic accommodation or materials in alternate media (i.e., Braille, large print, electronic text, etc.) per the Americans with Disabilities Act (ADA) or Section 504 of the Rehabilitation Act, you are encouraged to provide me with your notification of authorized services form from DSP&S and consult with me immediately so that arrangements can be made.

Academic Integrity

You are expected to be honest. In this course, that primarily means you should never submit work that is not your own. This does not mean that you are not allowed to work with other students. I encourage you to collaborate on homework problems! It is often more fruitful and enjoyable to work with other people when trying to figure something out. They can give you a fresh insight or different perspective on the problem. Conversely, explaining your idea to another person forces you to clarify your thoughts and can help to highlight flaws you may have previously overlooked. However, if you work with others to come up with a solution, afterward you should write up your work on your own. You should not base your homework on another's student's homework, and never put your name on something you do not understand.

Below is the official School policy on academic dishonesty, cheating and plagiarism.

Academic Dishonesty

Students at Reedley College are entitled to the best education that the college can make available to them, and they, their instructors, and their fellow students share the responsibility to ensure that this education is honestly attained. Because cheating, plagiarism, and collusion in dishonest activities erode the integrity of the college, each student is expected to exert an entirely honest effort in all academic endeavors. Academic dishonesty in any form is a very serious offense and will incur serious consequences.

Cheating is the act or attempted act of taking an examination or performing an assigned, evaluated task in a fraudulent or deceptive manner, such as having improper access to answers, in an attempt to gain an unearned academic advantage. Cheating may include, but is not limited to, copying from another's work, supplying one's work to another, giving or receiving copies of examinations without an instructor's permission, using or displaying notes or devices inappropriate to the conditions of the examination, allowing someone other than the officially enrolled student to represent the student, or failing to disclose research results completely.

Plagiarism is a specific form of cheating: the use of another's words or ideas without identifying them as such or giving credit to the source. Plagiarism may include, but is not limited to, failing to provide complete citations and references for all work that draws on the ideas, words, or work of others, failing to identify the contributors to work done in collaboration, submitting duplicate work to be evaluated in different courses without the knowledge and consent of the instructors involved, or failing to observe computer security systems and software copyrights.

Incidents of cheating and plagiarism may result in any of a variety of sanctions and penalties, which may range from a failing grade on a particular examination, paper, project, or assignment in question to a failing grade in the course, at the discretion of the instructor and depending on the severity and frequency of the incidents.

Course Objectives

In the process of completing the course, the student 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.

COURSE CONTENT OUTLINE:

- A. Introduction to Statistics
 1. Statistical data
 2. Frequency distributions
 3. Graphs
- B. Population Parameters and Sample Statistics
 1. Measures of central tendency.
 - a. Mean
 - b. Median
 - c. Mode
 2. Measures of Variability
 - a. Standard deviation
 - b. Quartiles
 - c. Range
- C. Probability
 1. Rules of probability, random variables, and expected value.

2. Discrete and continuous probability distributions.
 - a. Binomial Distribution
 - b. Hypergeometric Distribution
 - c. Poisson Distribution
- D. Sampling Theory
 1. Simple random sample
 2. Central Limit Theorem
- E. Estimating Population Parameters
 1. Estimating from a small or large sample.
 2. Sample size.
- F. Hypothesis Testing (Parametric/Nonparametric)
 1. One population, one and two sided tests.
 - z-test for means and proportions.
 - t-test for means (independent and dependent samples)
 2. Two populations, sampling distributions
 3. Chi-squared (Goodness of Fit and Contingency Tables)
 4. Analysis of Variance (ANOVA) (as time permits)
- G. Correlation and Simple Linear Regression (as time permits)
 1. Correlation coefficient
 2. Regression coefficient
 3. Test of hypothesis about the value of correlation/regression coefficient.

Important Dates

August 13	Class Begins
September 2	Last day to drop and avoid a "W"
September 3	Labor Day
October 12	Last day to drop and not receive a grade
November 12	Veterans Day
November 22-23	Thanksgiving
Wednesday, December 12	Class Final is 11:00-12:50

The final is a test. Be sure you plan to be there!

How to Send an Email to Mr. Gilmore

Read the syllabus. Often, the question you would like to ask has already been answered in the material I have provided for you.

Use your Reedley College email through Canvas. I am deluged with emails every day, and by using your school account, you'll have a better chance of avoiding the spam filter. Last semester I received about 800 emails from students.

Your Subject line should be the class name and time of the class only.

- Example: Math 103 8:00 AM

This information helps me organize and prioritize student emails. The section information is especially important since I often teach multiple sections of the same course.

Always use a greeting. Do not begin with "Hey" or similar colloquialisms. You should use "Dear Mr. Gilmore:"

Briefly and politely state the reason you are emailing. Offer only as much information as is relevant to the situation. Get to the point right away.

- Name the assignment or projects you are referring to instead of using pronouns or phrases, such as "this assignment".
- Example: Homework problem number 7 in section 7.1.

If you are emailing with a problem, suggest a solution. Be considerate, however, of how your solution might create additional work for me.

Sign it with your name and your student ID number (but never your Social Security number). Use your first and last name, even if you know that I know you.

Your email should be professional. It is important to use punctuation, capitalization, and complete sentences in all email correspondence to me.

Read it over. If you do not have spell-check on your email, then you can copy the message, paste it into a word-processing program, and run spell-check there. Consider not only the mechanics, but also what you have said. Strive for a polite tone, concise language, and clear purpose.

- **Allow adequate time for a reply.** Follow up if more than a few days have passed and you have not gotten a response, then it is appropriate to politely ask if I received your email and had time to consider what you wrote.

If you are simply sending me information then I may not consider a reply necessary. In this case, you are done.

Example: "I have the flu and will not be in class on Tuesday, but Sue will turn my paper in for me."

If your issue is not resolved then consider an office visit.

Often the tone in emails cannot be properly judged. Rather than becoming upset, a visit in person can often remedy the situation.

To...	Jim Gilmore
Cc...	
Bcc...	
Subject:	Math 103 8:00

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Dear Mr. Gilmore:

I will not be in class on Tuesday because I am not feeling well tonight. I will ask John [Smoltz](#) to take notes for me. I will also watch the video that is located in Blackboard and then do the assigned homework in [CourseCompass](#).

[Greg Maddux](#)
0123456