

COURSE SYLLABUS

CONTACT INFORMATION

Julie Kehoe

Email:

Julie.kehoe@reedleycollege.edu

Phone: ext #3420

Office: FEM -1N

Office Hours: M-W 10-11am

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Course Description Course Objectives

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.

Advisories: ENGL 125 and 126

Prerequisites: Math 103 or equivalent

Student Learning Outcomes

Upon completion of this course, students will be able to:

1. Organize, analyze, and utilize appropriate methods to draw conclusions based on sample data by using tables, graphs, measures of central tendency, and measures of dispersion.
2. Apply concepts and terminology of statistics.
3. Implement the rules of probability.
4. Collect data, interpret and communicate the results using statistical analyses such as confidence intervals, hypothesis tests, and regression analysis.

In the process of completing this course, students will:

1. Distinguish among different scales of measurement and their implications;
2. Identify the standard methods of obtaining data and identify advantages and disadvantages of each;
3. Interpret data displayed in tables and graphically;
4. Calculate measures of central tendency and variation for a given data set;
5. Apply concepts of sample space and probability;
6. Calculate the mean and variance of a discrete distribution;
7. Calculate probabilities using normal and t-distributions;
8. Distinguish the difference between sample and population distributions and analyze the role played by the Central Limit Theorem;
9. Construct and interpret confidence intervals;
10. Determine and interpret levels of statistical significance including p-values;
11. Interpret the output of a technology-based statistical analysis;
12. Identify the basic concept of hypothesis testing including Type I and II errors;
13. Formulate hypothesis tests involving samples from one and two populations;
14. Select the appropriate technique for testing a hypothesis and interpret the result;
15. Use linear regression and ANOVA analysis for estimation and inference, and interpret the associated statistics; and
16. 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.

Course Materials

- ⇒ Graphing Calculator (TI 83 or TI 84 recommended)
 - ⇒ Introductory Statistics by OpenStax
- Recommended Apps/Websites**
- ⇒ Khan Academy
 - ⇒ Canvas App





Attendance and Participation

Regular class attendance is expected. It is your responsibility to withdraw from the class with Admissions and Records if you find that you can no longer attend or possibly receive an F.

You **may** be dropped for excessive tardiness or after 4 absences.

If you reach 6 absences, **for any reason**, you will be dropped from the class.

Being an active participant in class is key to your success. Therefore, If you are tardy, leave early, or leave class and return later, this will affect your attendance count, as will doing unrelated work, homework or using electronic devices during class. (i.e. cell phones, MP3 players, etc.)

You will be considered late if you arrive after attendance has been taken.

Each tardy is equal to one half of an absence, i.e. 2 tardies = 1 absence

If you do not sign the attendance sheet you will likely be marked absent.

“I have discovered a truly marvelous proof of this, which however the margin is not large enough to contain.”

-Pierre de Fermat (referring to his ‘last theorem’)

Assignments & Exams

Worksheets, Participation, and Practice Exams

You will be working in groups regularly in this class. Worksheet grades will be based on completeness and participation in your group. **Most worksheets missed due to absence can be found on Canvas but participation grades cannot be made up.**

Homework

Homework is assigned on Thursday each week and is

due the following Wednesday. We will be using a FREE online homework system through Canvas. The textbook is also available online for free. **You may purchase a physical copy of the textbook but it is not required.**

Late Work

Turning an assignment in late for **any reason** will result in a 40% point reduction. Late work must be turned in within a week of the original due

date. Late extra credit assignments will not be accepted.

Exams

There will be four exams and a cumulative final exam in this course. **No make-ups will be allowed for exams.** If absent on the day of an exam, **one** missed exam score will be replaced with your final exam percentage. Being unprepared for the exam is not a legitimate excuse.

Academic Honesty



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, including but not limited to receiving a grade of F on the assignment or in the course. For the college policy on cheating and plagiarism see the college catalog.

Grading

Grading Scale:

A	89.5% - above
B	79.5%-89.4%
C	69.5%-79.4%
D	59.5%-69.4%
F	59.4% and below

Grading:

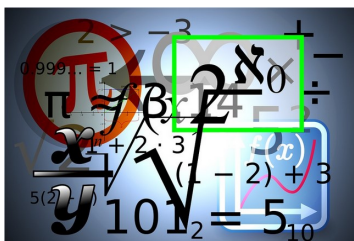
50% Tests
20% Final Exam
20% Homework
10% Worksheets, Participation, and Practice Exams

Finding your Grade:

I will be recording your grades and attendance on Canvas.

I strongly recommend you check it regularly for accuracy so there are no surprises at the end of the semester.

Tip: Use the 'What if' option to see how possible assignment scores will effect your grade.



“Do not worry to much about your difficulties in mathematics, I can assure you that mine are still greater.” - Albert Einstein

Resources

Other Students in Class

I strongly encourage you to form study groups of 3 to 5 students and work together outside of class. It is more productive and enjoyable to work with others when studying. I know this is more challenging in an online class but the discussion board is available to meet with other student online.

Your Instructor

I will be happy to help you at the beginning of class or in my office. My office hours are listed at the beginning of this syllabus. If you cannot come during my office hours you can make an appointment to come at a different time. You may also ask questions through email and Canvas.

Math Study Center, FEM 1

The STEM Math Study Center is a free tutoring resource available to all Reedley College math students. 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.

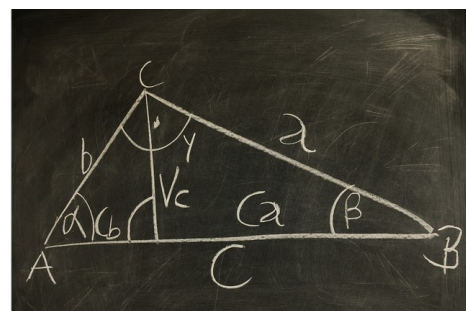
Open M-Th 8am-4pm, F 8am-12pm

Accommodations for Students with Disabilities

Disabled Students Programs & Services (DSP&S) is designed to provide specialized services and accommodations that assist students with documented physical, psychological and learning disabilities reach their maximum potential while achieving their educational goals. Staff specialists interact with all areas of the campus to eliminate physical, academic and attitudinal barriers. Disabled Stu-

dents Programs & Services takes a personal interest in meeting the special needs of students with disabilities.

If you have a verified need for an academic accommodation or materials in alternate media (i.e., Braille, large print, electronic tex, etc.) per the Americans with Disabilities Act (ADA) or Section 504 of the Rehabilitation Act, please contact me as soon as possible.





Important Dates *

August 13	(M)	Start of Fall 2018 semester
August 13 - October 12	(M-F)	Short-term classes, first nine weeks
August 24	(F)	Last day to drop a Fall 2018 full-term class for full refund
August 31	(F)	Last day to register for a Fall 2018 full-term class in person
August 31	(F)	Last day to drop a Fall 2018 full-term class to avoid a "W" in person
September 2	(SU)	Last day to drop a Fall 2018 full-term class to avoid a "W" on WebAdvisor
September 3	(M)	Labor Day Holiday (no classes held, campus closed)
September 14	(F)	Last day to change a Fall 2018 class to/from Pass/No-Pass grading basis
October 12	(F)	Last Day to drop a full-term class (letter grades assigned after this date)
October 15 - December 14	(M-F)	Short-Term classes, second nine weeks
November 12	(M)	Veterans Day observed (no classes held, campus open)
November 22-23	(Th-F)	Thanksgiving holiday (no classes held, campus closed)
December 10-14	(M-F)	Fall 2018 final exams week
December 14	(F)	End of Fall 2018 semester



Tentative Calendar

AUGUST

Sun	Mon	Tue	Wed	Thu	Fri	Sat
			1	2	3	4
5	6	7	8	9	10	11
12	13* Semester Begins	14 Welcome	15	16 Ch 1	17	18
19	20	21 Ch 2	22	23 Ch 2	24*	25
26	27	28 Ch 3	29	30 Ch 3	31*	1

SEPTEMBER

Sun	Mon	Tue	Wed	Thu	Fri	Sat
2	3 No School	4 Ch 3	5	6 Review	7	8
9	10	11 Exam 1	12	13 Ch 4	14*	15
16	17	18 Ch 4	19	20 Ch 6	21	22
23	24	25 Ch 6	26	27 Ch 7	28	29
30						

OCTOBER

Sun	Mon	Tue	Wed	Thu	Fri	Sat
	1	2 Ch 7	3	4 Ch 7	5	6
7	8	9 Review	10	11 Exam 2	12*	13
14	15	16 Ch 8	17	18 Ch 8	19	20
21	22	23 Ch 9	24	25 Ch 9	26	27
28	29	30 Review	31			

NOVEMBER

Sun	Mon	Tue	Wed	Thu	Fri	Sat
				1 Exam 3	2	3
4	5	6 Ch 10	7	8 Ch 10	9	10
11	12 No School	13 Ch 12	14	15 Ch 12	16	17
18	19	20 Review	21	22 No School	23 No School	24
25	26	27 Exam 4	28	29 Ch 13	30	

DECEMBER

Sun	Mon	Tue	Wed	Thu	Fri	Sat
						1
2	3	4 Review	5	6 Review	7	8
9	10 Finals Week	11	12	13 Final Exam 1-2:50pm	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29