Math 161 Course Syllabus

MATH 161 Fall 2020 Section 1314

Mathematics Preparations for Statistics and Liberal Arts

Class Meetings

Monday and Wednesday 3:30- 5:30 PM Synchronous Online Zoom Lectures

Instructor Contact Information

Instructor: Sara Jones

email : sjones@santarosa.edu or sarajones@prodigy.net

Office: 228 Kunde Hall, 527-4296, 707-758-0084,

Personal Zoom Meeting ID: 601 020 9598

I have regular Zoom office hours. Feel free to drop in any time to say hi or ask a question. I always like to see students! I would appreciate it if you Sign up and let me know you are coming. If these times don't work email me and we will find a time that does.

Office Hours: Mon. and Wed. 10:00 - 10:30 AM, 5:30- 6:00 PM, Tues. 10:30-11 AM and 3:30 - 4 PM

and by appointment. Always send an email prior to attending a zoom office hour.

Please check your Canvas account and your SRJC email daily for any announcements, handouts or assignments that I may send out. Check settings to be sure that the email in Canvas and your Cubby is one that you check regularly. You can ask general questions on the Course Question and Answer Discussion in Canvas.

If you email me, please include your full name as well as the course name, Math 161.

Math 161 COURSE CONTENT

Course Outline and Student Learning Outcomes:

Catalog Description:

Survey of fundamental algebra topics, probability and exploratory data analysis needed to prepare students for transfer-level statistics and liberal arts mathematics courses.

Advisory: This course is NOT intended for math, science, computer science, business, or engineering majors.

Student Learning Outcomes:

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

1. Create linear and exponential models using real world data in the context of application problems.
2. Find and analyze summary statistics for categorical and quantitative data.
3. Create and analyze graphical representations for categorical and quantitative data.
4. Create and interpret functions graphically, verbally, and algebraically.

Sustainability

This Course will be included as class examples, homework problems, and projects. Sustainability issues will be integrated into the learning of statistics to help enlighten, engage and motivate students to pursue sustainability in their future careers and engage in personal activities that will positively affect the environment in which we live.

Required Materials

- *Pathway to Introductory Statistics*, first edition, by Lehmann.
- A copy of this book is also on reserve in the library: QA276.12 .L45 2016
- Access to MyMathLab: From Course Cubbie with access code from bookstore
- A Graphing Calculator: TI-84 (Available to borrow from SRJC Library)
- Scanner to create PDFs similar to Genius Scan or CamScanner
- 3 ring binder to keep text, classwork and homework

- A computer with consistent internet access. Laptops will be distributed by the SRJC Libraries to the general student population on a first-come, first-served basis using the materials request process. For instructions on how to request a laptop click here. All students will be notified through email when the application process is open and how to apply.
- **Adobe Reader**
- **Open Office**

Students are asked to make their textbook access purchases through the SRJC bookstores websites, You will then confirm your order and the bookstore will either ship a code to you in the mail or you can choose to pick up your order curbside. When you check out on the bookstore website you will be prompted to choose how you would like to receive your orders.

Math 161 With MyLab and Mastering and Lehmann's Pathway to Statistics 1st - New: $62.25

Course WebSite

Students will use the Canvas course website for assignment instructions, submitting assignments, viewing classmate's work, sharing resources, and viewing grades.

Assignments

Refrigerator Homework

- Each section is worth 10 points.
- Refrigerator homework problems are done from the eBook text. You can find the eBook in MyLab and Mastering.
- Completed work should be scanned and submitted into the corresponding sections in Canvas. Download CamScanner, TinyScanner, or GeniusScan App for your Phone.
- Work should be done neatly with a two-column format, answers circled, and space left for comments between problems.
- Refrigerator Homework(RH) should be so complete, beautiful, and clear enough that it is suitable for display on your refrigerator.
- Refrigerator homework is Due on Friday by Midnight.
- In cases of illness or emergency, late homework will be accepted but will be worth 7/10 for the Refrigerator part.

Computer Homework

- You will find the computer homework problems in Canvas or in MyLab and Mastering under the Assignments Tab.
- Do all of the problems given in each assignment.

- You must state a summary of the problem, write complete sentences that will help you review later and show all work.
- Hand write the percentage correct on the top.
- Submit a scanned copy into Canvas with your Refrigerator Homework
- 20% of the points will be deducted if a computer assignment is submitted late.

Quizzes

We will work on quizzes regularly in class. You are responsible for completing every quiz. Any late quiz or quiz on which you receive less than half credit may be corrected and resubmitted within a week to get up to half credit. If you resubmit a quiz you need to email me and let me know that you want me to regrade it. The sum of the quiz grades will be worth a test grade.

Affective Domain

Assessments include practice tests, test corrections, and Affective Domain reflection essays. You will also be uploading PDFs of this work into Canvas.

In Class Test

Test dates are listed below, and cannot be made up. The final is cumulative. Grade on final can replace a missed test grade. Test points have more weight than homework points.

You will be taking your test on Zoom with a video camera showing your hands while you work on your exam.

Grading

If you want to pass, come to class, do the homework, and see me if you need help!!

Assignment Category	% of grade
Tests (3 at 12% each)	36%
WebAssign Homework	7%

Refrigerator Homework	7%
Quizzes	10%
Affective Domain	10%
Final Exam	30%
Total	100%

Course grades use the following scale:

A: 90-100 **B**: 80-89 **C:** 70-79 **D:** 60-69 **F:** 0-59

Example: Mr. Bill has scores of 65, 75, and 90 on his four tests, his WebAssign homework average is 85%, Refrigerator Homework average is 567/600 = 94.5%, Affective Domain average is 82%, his quiz average is 80% and his final exam score is 70. His course grade is then

0.12*(65 + 75 + 90) + 0.07*94.5 + 0.07*100 + 0.10*82 +0.10*80 + 0.30*70 = 78.4, a C in the class.

Student Success

- Come to class ready to learn.
- Make sure you eat, sleep and exercise.
- Read the material that will be covered before and after class.
- Always complete homework on time.
- Turn in all homework and quizzes.
- If you miss class, contact me via email immediately to schedule and make up any missed work.
- Do a little homework each day.
- Work for this class will take between 4 and 6 hours outside of class each week. Be sure to schedule time to complete this work at the beginning of the semester.
- Enlist support from employers and loved ones right now.
- Get to know and work with classmates outside of class time.
- Keep a binder containing all classwork and record grades on Homework Assignment Sheet
- Use pencil ONLY and erase your mistakes.
- Health issues (physical and mental) can interfere with your academic success. Student Health Services is here to support you. Details are at shs.santarosa.edu.

Dropping the Class

If you decide to discontinue this course, it is your responsibility to officially drop it. A student may be dropped from any class when that student's absences exceed ten percent (10%) of the total hours of class time. It is strongly advised that if you need to miss more than one class/homework deadline in a row that you contact the instructor to avoid being dropped from the class.

Attendance

Students who fail to attend the first class meeting may be dropped by the instructor.

Instructors are required to drop all No-Show students immediately following the second class meeting. A No-Show is an enrolled student who has not attended any class meeting of the course or not completed any of the assignments in the first two weeks.

I expect you to be attending our Synchronous Zoom lectures. While I will post the Lectures after class, recordings will not include the Breakout Room Discussions that are a vital part of the class.

Assistance

In addition to my Zoom office hours, you have the following available to you:

- In Pearson's MyLab and Mastering you can find instructional videos, completed example homework problems, and many other useful materials in the Multimedia Library.
- Watch SRJC's Math Lab Welcome and Instruction Video then use the SRJC Math Lab Meeting Request direct link to schedule an appointment.
- The Math Department office has a list of private tutors

Participation

Attendance is not marked by your body in a class, but rather by your participation within the class activities.

Here are the brief "guidelines" we will follow to structure participation:

- Check-in and interact in the course several times a week;
- Attend synchronous Zoom Lectures during our posted class times, put your name in the chat. If you are unable to attend, send me an email and tell me when you watched the lecture.
- Participate in all class quizzes—put your name on a group quiz and make contributions in the same color; submit complete individual quiz by uploading in assignments;
- Complete all homework. Computer Homework will be due on Monday and Wednesday Nights and Refrigerator Homework is due Friday nights at midnight;
- Connect with me beforehand if you are going to be disconnected from the course for more than 5 days.

This course follows a weekly schedule. Each week you will interact with your peers in weekly discussions, and complete a series of activities and assignments. The weekly schedule allows us to learn from one another, and it keeps everyone on a path toward our learning goals.

With each of your assignments, I will provide feedback, which opens another opportunity for revision, learning, and growth. Working within our weekly schedule allows both you and me to plan our time.

The course is designed to take about 8-12 hours per week. Please plan to log in to the course a few times each week—we have regular due dates for discussions and assignments on Tuesdays and Thursdays.

Your participation is an important part of the success of this course, but I also recognize that you each have other classes, family and friends to care for, and, because we are human, sometimes we are just swamped or under the weather. If you have reached a point where you can't meet a deadline, please contact me—we will work together to make a path to success.

Classroom Conduct

- Please turn off your microphone and put away all phones, pagers, music, etc. upon our entering zoom class. If you would like to ask a question or make a comment you can use your space bar to unmute yourself.
- It is best if you can sit at a desk or writing surface so you can take notes during class.
- I encourage you to share your video, especially during breakout rooms, so that you can get to know me and your classmates. (I do understand that this is not possible or desirable for everyone.)
- If you are caught cheating, you will receive a zero for that test/assignment. You will also be suspended from class for two class meetings and you will not be allowed to make up any missed work. If you are caught cheating there will also be a letter written to the Vice President of Student Services to report the incident. The Vice President may then take additional disciplinary action ranging from reprimand to expulsion.
- The SRJC Rights and Responsibilities for students can be found at the following site: https://studentlife.santarosa.edu/rights-and-responsibilities
- Collaborating on or copying of tests or homework in whole or in part will be considered an act of academic dishonesty and result in a grade of 0 for that test or assignment. I encourage students to share information and ideas, but not their work. See these links on Plagiarism:
- SRJC Writing Center Lessons on avoiding plagiarism
- Links to an external site.
- SRJC's policy on Academic Integrity

Homework Hints

- Check odd answers in the back of your book. If you are assigned an even problem and don't know what the answer should include, look at the previous odd answer for the correct form.
- Ask for help before the class in which the assignment is due. I am happy to help.
- Write in complete sentences and equations. Learn the correct notation and symbols as soon as possible.
- Collaborate with a classmate to check answers and work on the problems.

- Fold paper to form two columns. Circle or box Answers. Leave enough blank space between problems for corrections and comments.

Students with Disabilities:

If you need disability related accommodations for this class, such as a note-taker, test-taking services, special furniture, etc., please email me the Authorization for Academic Accommodations (AAA letter) from the Disability Resources Department (DRD) to the instructor as soon as possible. You must also speak with me privately during office hours about your accommodations. Please set up a Zoom meeting with me as soon as possible and regularly throughout the semester. If you have not received authorization from DRD, it is recommended that you contact them directly. DRD is located on the first floor of Plover hall. You can find more information at https://drd.santarosa.edu/ or 707-527-4278.

Netiquette, or Why Is It Harder to Be Polite Online?

Netiquette refers to using common courtesy in online communication. All members of the class are expected to follow netiquette in all course communications. Use these guidelines:

- Use capital letters sparingly. THEY LOOK LIKE SHOUTING.
- Forward emails only with a writer's permission.
- Be considerate of others' feelings and use language carefully.
- Cite all quotations, references, and sources (otherwise, it is plagiarism).
- Use humor carefully. It is hard to "read" tone; sometimes humor can be misread as criticism or personal attack. Feel free to use emoticons like :) for a smiley face to let others know you are being humorous.
- Use complete sentences and standard English grammar to compose posts. Write in proper paragraphs. Review work before submitting it.
- Text speak, such as "ur" for "your" or "ru" for "are you" etc., is only acceptable when texting.

Dates to remember:

Date	Event
September 7 and 8	No class
September 16	Test 1
October 19	Test 2
November 9	Test 3

November 11 and 26	No Class
December 14	1-4 PM Final

MyMathLab Student Registration Instructions for Canvas

1. Sign in to Canvas and enter your Canvas course.
2. Do one of the following:

- Select any Pearson link from any module.
- Select a MyLab and Mastering link in the Course Navigation. Next, select **Open MyLab and Mastering** or a content link.

Next, get access to your Pearson course content

1. Enter your Pearson account **username** and **password** to **Link Accounts.**

- You have an account if you have ever used a MyLab or Mastering product.
- If you don't have a Pearson account, select **Create** and follow the instructions.

2. Select an access option:

- Enter the access code that came with your textbook or that you purchased separately from the bookstore.
- Buy access using a credit card or PayPal.
- Get Temporary Access. You will need to pay for access within 14 days.

3. From the You're Done page, select **Go to My Courses.**

Note: We recommend you always enter your MyLab Math course through Canvas.

Get your computer ready

For the best experience, check the system requirements for your product at https://www.pearsonmylabandmastering.com/system-requirements/

Need help? For help with MyLab Math for Canvas, go to https://help.pearsoncmg.com/integration/cg/canvas/student/en/content/get_started.htm

Math 161 Section 1314 Refrigerator Homework Calendar

Date	Section	Refrigerator Homework
8/17/2020	Orientation	
	2.1 Designing Studies	2.1 #6,14,28
8/19/2020	3.1 Frequency Tables, Relative Frequency, Bar Graphs	3.1 #32,34
8/24/2020	3.2 Pie Charts and Two-Way Tables	3.2 # 10,14,16
	3.3 Dot Plots, Stemplots, and Time Series Plots,	3.3 #20,28,31
8/26/2020	3.4 Histograms,	3.4 # 9,16,23
8/31/2020	3.5 Misleading Graphical Displays and Data	3.5 # 8,11,15
9/2/2020	4.1 Measures of Center,	4.1 # 34,40,48
	4.2 Measures of Spread	4.2 # 29,36
9/7/2020	Labor Day	

9/9/2020	4.3 Boxplots	4.3 # 10,18,20
9/14/2020	Review	
9/16/2020	Test 1 Chapters 3 and 4	
9/21/2020	5.1 Meaning of Probability	5.1 #20,32,56
	5.2 Complements and Addition Rule	5.2 #40,48
9/23/2020	5.3 Conditional Probability and Multiplication Rule	5.3 # 33,50
9/28/2020	6.1 Scatterplots	6.1 # 38,44
	6.2 Determining the Four Characteristics of an Association	6.2 # 17,36
9/30/2020	6.3 Modeling Linear Associations	6.3 # 25,38
10/5/2020	7.1 Graphing Equations of Lines and Linear Associations	7.1 # 32,45
	7.2 Rate of Change and Slope of a Line	7.2 # 25,32
10/7/2020	7.3 Using Slope to Graph Equations of Lines	7.3 # 68,75

10/12/2020	7.4 Functions	7.4 # 79,82,90
10/14/2020	Review	
10/19/2020	Test 2 Chapters 5, 6 and 7	
10/21/2020	8.2 Solving Linear Equations in One Variable	8.2 #48,72,98
	8.3 Solving Linear Equations to Make Predictions	8.3 # 81,97
10/26/2020	8.4 Solving Formulas	8.4 # 14,24,29,42,58,63
10/28/2020	8.5 Solving Linear Inequalities to Make Predictions	8.5 # 62,68,77
	9.1 Using Two Points to Find the Equation of a Line	9.1 # 50,56
11/2/2020	9.2 Using Two Points to Find an Equation for a Linear Model	9.2 # 19,22
	9.3 Linear Regression Models	9.3 # 26,29,48
11/4/2020	Review	
11/9/2020	Test 3 Chapter 8 and 9	

11/11/2020	Veteran's Day	
11/16/2020	10.1 Integer Exponents	10.1 # 70,98,103
11/18/2020	10.2 Rational Exponents	10.2 # 58,74
11/23/2020	10.3 Graphing Exponential Models	10.3 #28,74
11/25/2020	10.4 Using Two Points to Find an Equation for an Exponential Model	10.4 #55,58
11/30/2020	10.5 Exponential Regression Models	10.5 #26,41,43
12/2/2020	5.4 IA Properties of Logarithms	
12/7/2020	5.5 IA Predictions with Logarithms and Exponential Models	
12/9/2020	Review	
12/14/2020	Final Cumulative	