

Santa Rosa Junior College

Syllabus for FALL 2017

Course name and number: Math 9 / Finite Mathematics

Section code: 0373

Class Meeting Days/Times: TR 3:00pm-4:30pm

Class Location: Shuhaw 1711

Instructor: Dr. Ying Lin

Instructor's webpage: <http://www.santarosa.edu/~ylin>

Office: Shuhaw 1702

Email: ylin@santarosa.edu

Phone/Voicemail: 707-521-6912

Office hours: see the calendar on the instructor's webpage

Key dates for the traditional 16-week semester:

Day Class Begins: August 21, 2017

Drop/refund deadline: September 3, 2017

Last Day to Drop without W: September 10, 2017

Last Day to Drop with W: November 19, 2017

Final exam date: December 19, 1:00 – 3:45pm

Course Description:

This course is the second half of a standard beginning algebra course, including rational expressions, radicals and rational exponents, quadratic equations, and the graphs of parabolas. The sequence MATH 150A/MATH 150B constitutes a complete course in beginning algebra equivalent to a standard first year high school algebra course.

Course Objectives:

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

1. Apply linear and exponential graphs and functions to solve problems in finance and economics;
2. Write a system of linear equations to solve applied problems;
3. Solve a system of linear equations using Gauss-Jordan elimination and interpret the result;
4. Find the inverse of a square matrix and use the inverse to solve a system of linear equations
5. Solve linear programming problems in at least three variables;
6. Apply graphical and simplex methods to linear programming problems
7. Find unions, intersections and complements of sets and use Venn diagrams to solve problems;
8. Apply the fundamental counting principle, permutations, and combinations to probability problems.
9. Determine the probability of a specified event;
10. Use expected value, conditional probability and Markov chains.
11. Solve applied problems in finance including simple and compound interest
12. Solve problems in finance including future and present value, annuities, sinking funds, and amortization
13. Apply fundamentals of game theory.

Prerequisite:

Completion of MATH 150A or higher.

Textbook:

Finite Mathematics for Business, Economics, Life Sciences, and Social Sciences, Thirteenth Edition, by Barnett, Ziegler and Byleen

ISBN-10: 0321947622

ISBN-13: 9780321947628

Library Call Number: [QA39.3 .B37 2015](#)

(Before you purchase the textbook, please read the following paragraph for more information carefully.)

MyMathLab Access is required for completing the homework problems online. You have two options with regard to the textbook and online homework:

1. Buy an access code online at www.mymathlab.com.
2. Buy the new book packaged with MyMathLab access code at the bookstore.

Although MyMathLab provides access to an online version of the textbook, if the internet goes out, you may be asked to turn in your homework on paper. In addition, my previous students have found it much easier to read from the hardcopy of the textbook instead of reading from the computer screen. Therefore, I highly recommend you obtain a hard copy of the textbook.

Go to www.mymathlab.com. Click on “Register Now” → “Student”. The Course ID is **lin20654**. The course "Math9-Fall17-LIN" will appear. If you are still waiting to finalize your schedule, you can get temporary access for about 10 days (look at the bottom part of the screen for the link). Select “Access Code” if you have purchased the textbook/access code bundle at the bookstore. The access code for MyMathLab is valid for a year from the date you purchased it.

Class Attendance:

Absences, arriving to class late and leaving class early are counterproductive to learning. If you need to leave class early, notify the instructor **before** class starts, sit close to the exit and leave without disturbing the instructor or other students. You are responsible for obtaining any notes, announcements, etc. If you are absent, arrive late to class or leave early during more than 10 percent of the classes, you may be withdrawn from the course. Missing the first two classes may also result in you being withdrawn from the course to allow other students to enroll. Students are responsible for officially withdrawing from the course if they stop attending.

Email:

Email is checked twice a day during business hours only. Please include your course number and class time in the subject of your email. Please type your email using complete sentences in a respectful manner to ensure a timely response.

ADA Compliance Statement:

If you need disability related accommodations for this class, such as a note taker, test taking services, special furniture, use of service animal, etc., please provide the Authorization for Academic Accommodations (AAA letter) from the Disability Resources Department (DRD) to me as soon as possible. You may also speak with me privately during office hours about your accommodations. If you have not received authorization from DRD, it is recommended that you contact them directly. DRD is located in Analay Village on the Santa Rosa campus, and Petaluma Village on the Petaluma Campus.

Grading Policies

Grades			Final Grades	
Homework	120 points		630-700 points	A
Attendance	10 points		560-629 points	B
Quizzes	70 points		490-559 points	C
Midterm and Final Exams	500 points		420-489 points	D
Total	700 points		< 420 points	F

Incompletes:

The grade of "I" (incomplete) may be requested only with a valid, verifiable excuse and only if the student has successfully completed all but a small portion of the required coursework with a passing grade (at least 70% of the coursework must be complete). A student requesting an incomplete must do so by 24 hours after the final exam. An incomplete may be given only at the discretion of the instructor.

Quizzes: weekly in-class quizzes will be given to test understanding of the homework assignments. Quizzes may be completed individually or as a group. If you have done your homework, the quizzes (closed book) will be easy, otherwise they will be difficult.

Homework will be done using MyMathLab. You will be expected to complete an assignment after each section is covered. In addition, there may be other work assigned that will need to be completed on paper and turned in separately. You must write down all the problems and solutions and bring them to class every day in case you are asked to put something on the board and also for review purposes before exams.

Homework/Quiz Corrections: You can earn back those points missed on homework assignments or quizzes by reworking those problems that were solved incorrectly. An incomplete assignment will **NOT** qualify for corrections. You get two weeks to do the corrections from the time the assignment is handed back. Corrections must be handed in during one of my or the teaching assistant's office hours. **NO late or absent assignments will be accepted, do not slip assignments under my office door, or give it to the secretary.**

Exams: four midterm exams and a final exam will be given in class on the dates noted in the syllabus. These are closed book, closed note exams. **Exams cannot be made up!** The final exam will be a comprehensive exam. It must be taken on the last day of class. So make your vacation plans accordingly.

If you miss a midterm exam, your comprehensive final exam score can replace the score of up to one missed exam.

- Example 1: you have scored 80 in all of your tests and 180 in your final. Then your total test/final scores will be $80+80+90+180=430$ out of 500 points.
- Example 2: you have scored 80 in all of your tests and 140 in your final. Then your total test/final scores will be $80+80+80+140=380$ out of 500 points.

If you receive less than 60% in the Final Exam, your final letter grade may be lowered by one full letter grade (e.g. from C to a D).

Cheating:

If a student is caught cheating (see the attached Student Code of Conduct), the student will receive a zero for the assignment, quiz or test in violation.

Student Withdrawal “W” Grades

Students may **withdraw** from class without instructor permission and without incurring any grade penalty until the W deadline. This grade may be requested by the student only during the first two-thirds of any session and may be given by the instructor on or before the official census reporting date to students who have ceased attending class before that date. Students who stop attending class after this date may receive a grade of “F.”

Final Grades:

Students may check final grades at the online student portal approximately one week after the final exam. For privacy and security reasons, instructors may **not** post, give grades over the telephone or through e-mail. If you need an official grade report in mail, please submit a self-addressed envelope with sufficient postage. During the semester, you accumulated grade points will be available through the MyMathLab grade book. The last day to report any missing grades is indicated in the schedule. No more changes will be made to the grade book after this date.

Study Groups:

You are encouraged to form study groups outside the classroom. If you would like to join a study group, please let me know. Time sheets will be distributed to record all meetings of the study groups and collected before each test. At the end of the semester, extra credit may be awarded to groups that have been meeting at least once every week.

Help:

- Your questions are welcomed both in and out of class. If you cannot resolve your questions in class, I strongly recommend you coming to see me during office hours.
- My previous experience has shown that participating in study groups can greatly benefit all students at the Elementary Algebra level, no matter whether you are an “A” student or someone who always struggles with Math.
- Assistance can be found in the Mathematics Computer Lab, the MESA center, and the Tutorial Center in the Library.
- The Math Department office has a list of private tutors. This list can also be found on the Math Department web site at www.santarosa.edu/mathematics.

Caveat:

The instructor reserves the right to make changes to the syllabus and will notify students of those changes in class.

Student Conduct

We will conduct ourselves in a manner which reflects our awareness of common standards of decency and the rights of others. All students are expected to know the Student Conduct Code (http://www.santarosa.edu/for_students/rules-regulations/scs/section1.shtml) and adhere to it in this class. Students who violate the code may be suspended from 2 classes and referred to Vice President of Student Services for discipline.

Respect

The best way to learn is through active participation; therefore, we respect others when talking by being on-time, listening actively, and by being polite even when we disagree with another's viewpoint. Please turn off all electronic devices. If you use a laptop for note taking, please sit in the front row with the sound off. No food in class please.

Academic Integrity

All written work is to be original; plagiarism of any kind will result in a failing grade on that assignment. Students who plagiarize or cheat may be suspended [for one or two class meetings by the instructor] and referred to the Vice President of Student Services for discipline sanction, in cases of egregious violation. Please read the college policy/procedure on academic integrity at:

<http://www.santarosa.edu/polman/3acadpro/3.11P.pdf>

Emergency Evacuation Plan

In the event of an emergency during class that requires evacuation of the building, please leave the class immediately, but calmly. Our class will meet on the lawn in front of Shuhaw to make sure everyone got out of the building safely and to receive further instructions. (If the class is on a second or higher floor, provide clear directions to the stairs). If you are a student with a disability who may need assistance in an evacuation, please see me during my office hours as soon as possible so we can discuss an evacuation plan.