SANTA ROSA JUNIOR COLLEGE

MATH 101: *Mathematics for AA/AS Degree*
0354 – 3.0 units

When: Tuesday & Thursday 1:30 pm – 3:00 pm

Where: Analy 708

Instructor: Kat Valenzuela

Email: *Kvalenzuela@santarosa.edu*

- Please use proper English and grammar in all emails. Text language, emotions, and emojis are not considered proper English.
- I will reply within 24 hours to emails received Sunday 5:00 pm - Thursday 5:00 pm.
- I will reply by Monday at 5:00 pm to emails received between Thursday (after 5:00 pm) and Sunday (before 5:00 pm).
- I will reply within 24 hours of the next working day if emails were received during holiday.

Phone: 707-778-2474

Office Hours: Kunde Hall 213. Office hours will be asynchronous meaning via email or by appointment.

Content: Four mathematics topics will be selected from functions, financial math, geometry, linear programming, probability and statistics, reasoning, and trigonometry. This course fulfills the mathematics competency requirement for an associate degree from SRJC. It is not recommended for students intending to transfer.

Prerequisite: Course Completion of Math 150B, or Math 151 or higher; or AB705 placement into Math Tier 1 or higher.

Course Outline of Record: is available online: go to the SRJC homepage and search for course outline and the type in MATH 101 under the course.

Required Materials:

- Textbook: Nature of Mathematics 13th Edition. Author: Karl Smith. Cengage Learning. I will be teaching the course with the 13th edition of our textbook. If you choose an earlier/different version, it is up to you to reconcile the differences between editions.
- A scientific calculator. You may use a scientific calculator to complete the homework; however, that is not a substitution for not understanding the mathematics behind the computations. On the Exams the allowable technology will be specified.

Class Structure:

- Give yourself the best chance of succeeding by:
  - Meeting the prerequisites
  - Providing a good-faith effort
  - Communicating often and taking the time to formulate good questions
  - Having patience
  - Exhibiting academic integrity
  - Attend class each day, work on the homework, and weekly assignments
  - Read the text before attempting the homework

- Know when the due dates for assignments are
- Strive to be "impossible to be misunderstood"
- Realizing that your work will be graded in accordance with a college-level, math class

- You will be given assignments each week that may come in the form of worksheets, readings, bookwork assignments, exercises, etc. This work will be announced each week.
- Our class is a place reserved for learning. Being kind, open-minded, respectful, patient, and tolerant are qualities conducive to learning. It is expected that you will be prepared to learn and exhibit these behaviors.
- It is critical that students work on homework frequently throughout the term.
- The written exams in **our class will be graded according to mathematical standards that accompany a college - level math class**.
- When developing a logical argument or asking a question, please make it a goal to be **"impossible to be misunderstood" and take the care and time to formulate good questions**, before asking them.
- Read all the emails, homework, quizzes, exams, assignments and any communications you have from me **carefully**.
- This class will be utilizing technology; however, that is not a substitution for not being able to utilize mathematical notation correctly, appropriately, and efficiently.

Academic Integrity

All work is to be original; verifiable plagiarism or academic dishonesty of any kind will result in recording an F for the class or being dropped from the class. Students who plagiarize or cheat may also be referred to the Vice President of Student Services for discipline sanction, in cases of egregious violation.

Accommodations for Students with Disabilities

Please contact me privately regarding concerns about accommodations. If you have not received authorization from DRD, it is recommended that you contact them directly. DRD's link: https://drd.santarosa.edu

Your Responsibility: A college - level math class requires a great amount of discipline and continual self-monitoring. In order to be successful each student is expected to:

1. Attend office hours regularly.
2. Be respectful of your fellow classmates. You will be asked to leave the class if you are not ready to learn.
3. We will listen respectfully when someone else is talking, we will be respectful and polite even when we disagree with another's viewpoint.
4. Be an active participate during class.
5. Quietly listen to lecture and actively take notes.

6. Class is a place reserved for learning. Being kind, open-minded, respectful, patient, and tolerant are qualities conducive to learning. It is expected that you are prepared to learn and exhibit these behaviors.
7. Read each section in the book before attempting the homework. You will be surprised how much you understand in class, and feels easier when you do this!
8. It is critical that students work on homework frequently during the semester. Students are expected to work on homework exercises out of the text.
9. This class will be utilizing technology; however, that is not a substitution for not being able to utilize mathematical notation correctly, appropriately, and efficiently.
10. The written exams in our class will be graded according to mathematical standards that accompany a college - level class. Please keep that in mind when you are writing up your exams.
11. When developing a logical argument or asking a question, please make it a goal to be "impossible to be misunderstood" and take the care and time to formulate good questions, before asking them.
12. Read all the emails, homework, quizzes, exams, assignments, and any communications you have from me carefully.
13. Know how to gain access to the Mathematics & Computer Lab, & office hours are and visit as often as you need or want.
14. Review previous sections. Continual studying is much more rewarding and less stressful than cramming.
15. Study early and study often!
16. Check your email regularly!
17. Be aware of the date of the quizzes, exams, assignments, and final.
18. Problems you got wrong or partial credit on from your exams and quizzes is your responsibility to understand why. Try to work the problem out at home first and if you are still struggling come talk to me if you have questions.
19. Be patience with yourself and keep at it. Persistence, and hard work leads to success. You may need to find your own mental fortitude.

Fortitude Definition:

strength of mind that enables a person to encounter danger or bear pain or adversity with courage, strength.

20. Come talk to me for any reason! If you are having trouble, problems with something or cannot make class let me know as soon as you can. I am more willing to help you when you let me know early and have an open communication with me. I am less likely to accommodate circumstances when things arise at the last minute.
21. Students are required to have a text for our course. Our text is available nowadays in many different forms; e.g., as a traditional textbook, in electronic format, etc. You are welcome to choose the one that works best for you; you may have a preference or there may be cost savings with one format versus another.
22. I will be teaching the course with the 13th edition of our textbook. If you choose an earlier/different version, it is up to you to reconcile the differences between editions.

23. Preparedness: AB705 eliminates the requirement of taking a prerequisite course, in our case Intermediate Algebra. However; students are responsible for this prerequisite material. You are responsible for knowing the concepts taught in Intermediate Algebra and Beginning Algebra. In order to be successful, you will need to spend extra time outside of class reviewing the prerequisite material you are missing, on top of the material related to this course.

Late Work: Quizzes, exams, assignments, and the final will NOT be taken late. NO EXCEPTIONS!

Attendance: Attending class regularly greatly increases the likelihood of success in the course; however, I believe that adult college students know this (or, are learning this), and will make their own choice regarding attendance. There are no points associated with attendance. I am required to follow College Policy regarding attendance: A student may be dropped from any course when that student's absences exceed ten percent (10% constitutes an "excessive" number of absences for this course) of the total hours of class time. Students who fail to attend the first day & week of class may be dropped from the course.

MATH 16 GRADE BREAKDOWN

Activity (NO LATE WORK ACCEPTED; ALLOWED RESOURCES WILL BE DESCRIBED IN THE INSTRUCTIONS FOR EACH ACTIVITY)	Points Possible	Your Points	Your Cumulative Points	Cumulative Points Possible	Your Cumulative Percentage
Quiz #1 Tuesday, September 14th	50			50	
Exam #1 Tuesday, September 28th	100			150	
Quiz #2 Tuesday, October 26th	50			200	
Exam #2 Tuesday, November 9th	100			300	
Quiz #3 Tuesday, November 30th	50			350	
Take out lowest Quiz Score	-50			300	
Weekly Assignments	150			450	
Final Exam Thursday, December 16, 1:00 PM – 3:45 PM	150			600	

Grading Policy

Letter grades will be assigned on a scale no stricter than the following:

Letter Grade	Percentage
A	90 to 100
B	80 to 89
C	70 to 79
D	60 to 69
F	0 to 59

Activity Details

Weekly Assignments (15 at 10 points each; 150 points total)

You will be spending at least 1 hour each week working on weekly assignments (asynchronous work). This may come in the form of worksheets, readings, bookwork assignments, exercises, etc. The weekly assignments will be announced each week.

Homework Quizzes (Three at 50 points each; only two count toward your grade)

These quizzes will be held in class. You will only be allowed to use completed homework on this quiz. Only your top two quiz scores will be counted toward your grade. No quiz make-ups are available. Quizzes are usually returned, graded, no later than one week of the quiz date. Students are asked to review their graded quizzes and wait at least 48 hours to discuss questions and ask for further feedback on graded quizzes.

Exams (Two at 100 points each)

These will be taken in our classroom on Tuesday of week 7 and week 13. You will be notified of the exam topics and the materials you can use on the exams prior to each exam. These exams may only be taken at a different time with advanced notice and must be taken prior to the original scheduled date. Exams are usually graded and returned no later than one week of the exam date. Students are asked to review their graded exams and wait at least 48 hours to discuss questions and ask for further feedback on graded exams.

Final Exam (150 points)

Be prepared for a mostly cumulative final exam. It will be written to take about 2.75 hours and will be given at the College-designated time. You will be notified of the exam topics and the materials you can use on the final prior to the final. The final can only be taken at a different time with advanced notice and must be taken prior to the original scheduled date. Final exams are not returned to the students; however, you are welcome to come by during the following semester to review your final exam.

Tentative Schedule

(Note that the ideal schedule is just that—ideal. Our actual pace may cause us to run a little behind or ahead of the ideal schedule throughout the semester… hopefully we stay ahead more often than behind!)

Week Number	*Date (Week Beginning…)*	*Section Number and Title from Our Text Read these sections before they are covered*	*Homework Assignment*
1	August 16	11.1: Interest 11.2: Installment Buying	11.1: 5-50 ODD 11.2: 7 – 30 ODD
2	August 23	11.3: Sequences 11.4: Series 11.5: Annuities	11.3: 5 – 55 ODD 11.4: 5 – 53 ODD 11.5: 7 – 51 ODD
3	August 30	11.6: Amortization 11.7: Summary of Financial Formulas	11.6: 5 – 56 ODD 11.7: 7 – 57 ODD
4	September 6	*Monday: NO CLASS* *12.1: Permutations* *12.2: Combinations*	12.1: 3 – 57 ODD 12.2: 3 – 55 ODD
5	September 13	*Tuesday: Quiz #1* *12.3: Counting without Counting*	12.3: 3 – 47 ODD
6	September 20	13.1: Introduction to Probability *Thursday: Review*	13.1: 5 – 57 ODD
7	September 27	*Tuesday: Exam #1* 13.2: Mathematical Expectation	13.2: 7 – 49 ODD
8	October 4	13.3: Probability Models 13.4: Calculated Probabilities	13.3: 5 – 55 ODD 13.4: 5 – 49 ODD
9	October 11	13.6: The Binomial Distribution 14.1: Frequency Distributions and Graphs	13.6: 3 – 51 ODD 14.1: 5 – 57 ODD
10	October 18	14.2: Descriptive Statistics 14.3: The Normal Curve 14.4: Correlation and Regression	14.2: 11 – 55 ODD 14.3: 5 – 55 ODD 14.4: 5 – 43 ODD
11	October 25	*Tuesday: Quiz #2* 15.1: Cartesian Coordinates and Graphing Lines 15.2: Graphing Half-Planes	15.1: 1 – 57 ODD 15.2: 13 – 51 ODD
12	November 1	15.3: Graphing Curves 15.4: Conic Sections *Thursday: Review*	15.3: 3 – 49 ODD 15.4: 9 – 51 ODD
13	November 8	*Tuesday: Exam #2* *Thursday: NO CLASS*	
14	November 15	15.5: Functions 16.1: Systems of Linear Equations 16.2: Problem Solving with Systems	15.5: 3 – 47 ODD 16.1: 7 – 55 ODD 16.2: 1 – 57 ODD
15	November 22	16.3: Matrix Solution of a System of Equations *Thursday: NO CLASS*	16.3: 15 – 57 ODD
16	November 29	*Tuesday: Quiz #3* 16.5: Modeling with Linear Programming	16.5: 5 – 59 ODD
17	December 6	*Review*	

Finals	December 13	*Final Exam Thursday, December 16, 1:00 PM - 3:45 PM*	