GENERAL INFORMATION SHEET
SANTA ROSA JUNIOR COLLEGE
MATH 1A CALCULUS, FIRST COURSE
SECTION 31503

Mr. Gale Bach
Spring 2027
Day Class Begins: Tuesday, January 19, 2027
Day Class Ends: Thursday, May 20, 2027
Location: 251 Lindley Center for STEM Education
Class Time: Tuesday and Thursday 5:30pm - 7:50pm (Includes 10-minute break)
Office Hours: Tuesday and Thursday 4:00pm - 5:30pm, or by appointment. Lindley room 234.
email: gbach@santarosa.edu and Website: https://profiles.santarosa.edu/gale-w-bach

Prerequisites: Must have completed Math 27, a Precalculus course, with a "C" or better.

Course Description: This course will include coordinate planes and graphs, functions and their graphs, limits and continuity, techniques of differentiation, the chain rule, and implicit differentiation. Applications of differentiation such as related rates, relative and absolute extrema (first and second derivative tests), Mean Value Theorem, and the Intermediate Value Theorem, and Indeterminate forms and L'Hospital's rule. Introduction to integration which includes indefinite and definite integrals, First and Second Fundamental Theorems of Calculus, and the Mean-Value Theorem for integrals. Applications of the definite integral such as the area between two curves, volume of solids, and the length of a plane curve. Techniques of integration will cover Substitution Rule, and the Trapezoid and Simpson's Rules for calculating the approximate area under a curve. Solving simple differential equations using separation of variables. This course will emphasize conceptual understanding of the notions discussed above. We will use a multi-representational approach to calculus, justifying our results using graphical, numerical, analytic, and verbal arguments. The use of technology will be an integral part of the curriculum to help augment the concepts presented in the course.

Attendance: Four absences and the student may be dropped from the course. However, if the student wishes to be dropped, a formal drop-slip must be done online through your student portal by the date stated in the schedule of classes or an "F" grade will result. Please be on time, arriving late is disruptive to the class and instruction. **Turn off cell phones and keep them in your backpacks!**

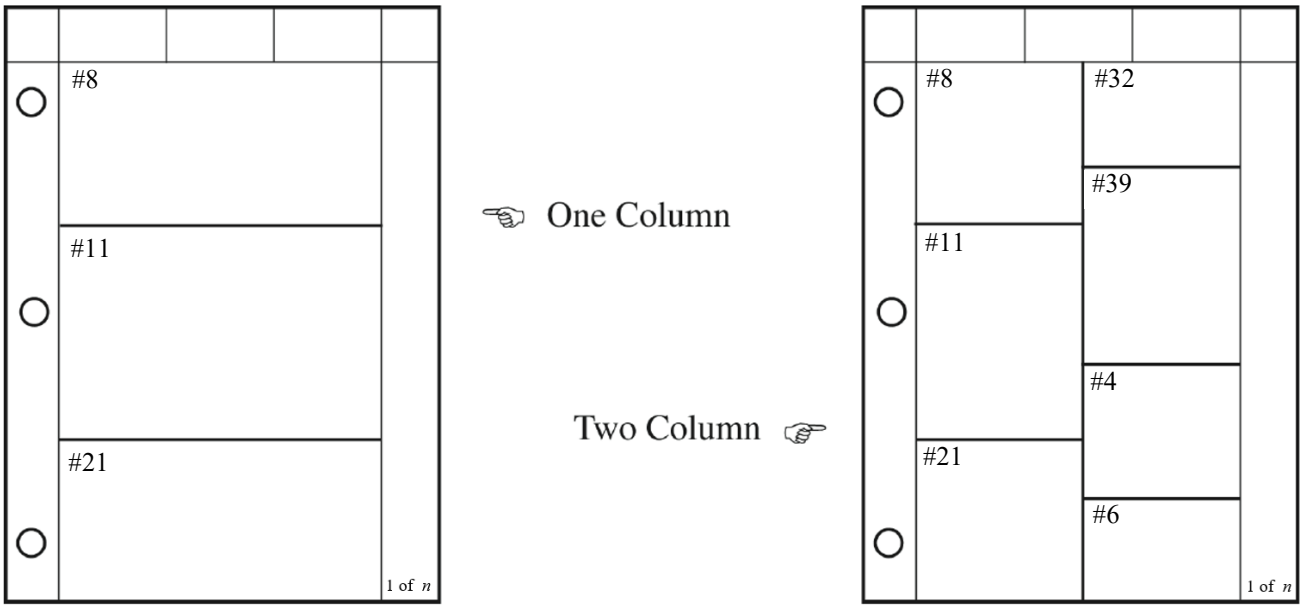
Assignments: All written work is to be handed in on 8 ½ by 11 engineering binder paper. The heading and format used on the front page should be that shown in the following outline:

Course # & Instructor	Assn. #	Name	Roll #
Math 1A, Bach	Assn. #2	White, Bob	31
Section 2.2 Page 92: **8, 11, 21, 32, 39;** 4, 6, 13, 29, 38, 43			
#6 Complete Solutions Written Here (Clearly Indicate Your Answer.)			
#11 Draw lines to separate problems.			

Each Problem Clearly Number

General Information Continued
Math 1A - Bach

Each homework assignment will be graded on a ten-point basis. Five problems will be chosen from each assignment to determine your score, "The Fab 5." Please solve the "Fab 5" problems first. During the last ten minutes of class on Thursday, you'll be asked to solve two Fab 5 problems chosen from the assignments due that week. Usually, two homework assignments are due per week. If your assignment is incomplete, two points is subtracted from the assignment total, maximum score of 8. The work should appear in pencil on the front side of the paper. Do not write on the back. Clearly identify each assignment with the appropriate heading, every problem must be supported by sufficient work and the answer clearly indicated. Problems and pages must be in their proper order, and pages must be fastened together by a staple. You may use either one column or two-column format as shown below.



Where *n* is the number of pages in the assignment.

Note that in two-column format, a vertical line is drawn down the center of the page. Lines must be drawn between problems, and each problem number should be clearly visible. Once you have selected a format for an assignment, do not change to the other format within that assignment. It is to your advantage to present a paper that is neat and organized. Remember that someone else must read your work. (You may even want to read it yourself as you study for an exam!) Assignments must be handed in at the end of class on the day they are due. One of your homework assignments will be dropped when calculating your final grade. You can earn back those points missed on homework assignments by reworking those problems that were solved incorrectly. Remember, an incomplete assignment will have a maximum score of 8. 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 office hours. **NO late or absent assignments will be accepted**, **do not slip assignments under my office door, or give them to the secretary**.

Tests: 1. There will be four exams given, each one and one-half hours in length.
2. The final will cover all the material in the course.

Note: No make-up for tests if they are missed. (If your homework score is greater than 70% and the final is greater than your lowest test score, the final score will replace it. If two or more of your lowest test scores are the same, the final will only replace one of them.)

Final Date and Time: TBA for the week of Monday, May 24 through Thursday, May 28, 2027.

Course Grade: The following weighing factors will be used to determine your grade:

Homework: 20%
Tests: 50%
Final: 30%

Grading Scale:

90% - 100% A
80% - 89% B
68% - 79% C
55% - 67% D
Less Than 55% F

Materials: 1. Textbook: Stewart's Calculus, Early Transcendentals, Ninth Edition (Cost $65)
Author: James Stewart
WebAssign ISBN 9780357128916
Class Key Link: santarosa 4884 2013
2. 8 ½ X 11 Engineering Paper
3. TI 89, or TI-nspire CX **CAS** Calculators

Last Day to Drop without a 'W' symbol: Thursday, June 25, 2026

Last Day to Drop with a 'W' symbol: Tuesday, July 28, 2026

Handouts and PowerPoints:
https://profiles.santarosa.edu/gale-w-bach

Math Lab Tutoring:
https://mathematics.santarosa.edu/online-math-lab-tutoring

Academic Integrity:
https://catalog.santarosa.edu/catalog-2019-2020/academic-integrity

Student Learning Outcomes:
https://portal.santarosa.edu/SRweb/SR_CourseOutlines.aspx?CVID=22198&Semester=20107