

Math 1A – Calculus 1 Course Syllabus

Santa Rosa Junior College

Welcome to Fall 2017

Section # 1072

MW 7:30am – 8:30am

Shuhaw 1737

TTh 7:30am – 9am

Instructor: Cortney Schultz

Email: cschultz@santarosa.edu

Phone: (707) 527 – 4705

Office: Shuhaw 1712

Office Hours: MW 8:50am – 9:50am & 12pm – 12:30pm

TTh 9:20am – 10:20am

My SRJC Website: <https://profiles.santarosa.edu/cortney-schultz>

Prerequisite: Completion of MATH 27 or higher (VF); OR Course Completion of MATH 25 and MATH 58; OR Qualifying Test Score in Math Algebra and Course Completion of MATH 58; OR Qualifying Test Score in Math Trigonometry and Course Completion of MATH 25; OR Qualifying Test Score in Math Algebra and Qualifying Test Score in Math Trigonometry.

Course Description: Limits and continuity, differentiation, applications of derivative, integration, applications of the integral.

Student Learning Outcomes: Here is the link for Math 1A course outline at SRJC.

https://portal.santarosa.edu/SRweb/SR_CourseOutlines.aspx?CVID=25439&Semester=20147

Textbook: *Calculus: Early Transcendentals, 8th Edition*, by James Stewart with WebAssign access code.

Homework: Homework will be completed and submitted online and requires the purchase of WebAssign. Here are three purchasing options:

Option #1: Purchase the hardback textbook and the WebAssign access code (E-textbook is included).

Option #2: Purchase the loose-leaf textbook and the WebAssign access code (E-textbook is included).

Option #3: Purchase only the WebAssign access code (E-textbook is included).

To create an account for WebAssign, go to www.webassign.net

The course key is **santarosa 1494 1765**

Calculator: A graphing calculator is *required* for this course. I will be demonstrating on a TI 84+.

Calculators may be checked out of the library for the entire semester for free. You must have a current student ID card in order to use this service.

Grading:	Quizzes	9%	$A \geq 90$
	Homework	11%	$80 \leq B < 90$
	Exams (4 @ 15% each)	60%	$70 \leq C < 80$
	Comprehensive Final Exam	20%	$60 \leq D < 70$
		100%	$F < 60$

Homework Grading/Late Homework: Select homework sections will be due twice a week (usually 11:59 pm on Tuesdays and Thursdays). You have 5 *attempts* at answering a homework question. If the first 2 attempts are incorrect, SEEK HELP! If homework is not completed by the due date and time, you have 24 hours to complete the remaining problems for half-credit.

SRJC attendance policy is as follows: *Students are expected to attend all sessions of the course in which they are enrolled. Any student with excessive absences may be dropped from the class.*

Attendance and Make-up Policy: Attendance is critical in this course. There are NO MAKE-UP EXAMS or QUIZZES.

Excessive tardiness is also detrimental to a student's development and will not be accommodated.

If you are more than 10 minutes late to class, it counts as ½ of an absence.

If you are absent, **you are completely responsible** for the material you missed. Contact a classmate for any assignments, announcements or notes.

Throughout the semester, if you have 8 absences or less, you will receive the following rewards:

- I will drop your 2 lowest quiz scores.
- I will drop your lowest exam score and replace it with the Final Exam score if such an action will help your grade.

My Classroom Policy is to insure the best environment for learning and is a courtesy to me and your fellow students.

- ◆ Arrive on time.
- ◆ Stay for the entire class period.
- ◆ Have pencils sharpened before class begins.
- ◆ Turn off ALL electronic devices except your calculators.
- ◆ Keep your cellphone turned off and inside your bag/backpack until class is over.

If your phone is out during class, I will give you one warning to put it away. After the first warning, I will ask you to leave class for the rest of the period.

Important Academic Calendar Dates:

August 21 st	Classes begin
September 4 th	Labor Day (No Classes)
September 5 th	PDA Day (No Classes)
September 10 th	Last day to register/add with an instructor's add code
November 19th	Last day to drop a class with "W" symbol
November 23-26	Thanksgiving Holidays (No Classes)
December 18th	Final Exam (7AM-9:45AM)

Cheating/Plagiarism: Please read SRJC's policy/procedure on academic integrity at

<http://www.boarddocs.com/ca/santarosa/Board.nsf/goto?open&id=A63TMC78051C>

All quizzes & exams (including the final) must be done by the student alone. Any student who violates this rule will receive a zero. A student who commits a second offense may receive a failing grade in the class.

Accommodations for Disabilities: 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.

Santa Rosa campus: Main office – Bertolini student center, 3rd floor east

Support services & testing – Analy Village, Bldg D

Petaluma campus: Main office – Jacobs Hall rm. 101

Emergency Evacuation: In the event of an emergency during class that requires evacuation of the building, please leave the class immediately and calmly. If you are a student with a disability who may need assistance in an evacuation, please see me as soon as possible to discuss an evacuation plan.

Tutoring: Free tutoring is available to all registered SRJC students.

Santa Rosa math lab: Shuhaw 1733 & 1735 – M-Th 7:30AM-7PM & Fri 11AM-2PM
 Santa Rosa tutorial center: 1st floor of the Doyle library – M-Th 8AM-7PM & Fri 8AM-3PM
 Petaluma Tutorial Center: Kathleen Doyle 247 – M-Th 9:30AM-6PM & Fri 9:30AM-3PM

Schedule: Before each class, it would be immensely beneficial for you to re-read your notes from the previous class and read the appropriate section(s) to be covered that day.

Math 1A - Calculus I

	Monday	Tuesday	Wednesday	Thursday
	7:30am-8:30am	7:30am-9am	7:30am-8:30am	7:30am-9am
Week 1 Aug 21-24	<i>Introduction</i> 2.1 Tangent/velocity	2.1 Tangent/velocity 2.2 Limit of a function	2.3 Calculating limits	Mini Quiz #1 2.3 Calculating limits
Week 2 Aug 28-31	2.5 Continuity	2.6 Horiz. Asymptotes	2.7 Derivatives	Mini Quiz #2 2.8 Derivatives as functions
Week 3 Sep 4-7	Labor Day (No Classes)	PDA Day (No Classes)	3.1 Derivatives of polynomials & exponents	3.2 Product & quotient rules
Week 4 Sep 11-14	3.3 Derivatives of trig functions	3.4 Chain rule	3.4 Chain rule	Mini Quiz #3 3.5 Implicit differentiation
Week 5 Sep 18-21	3.5 Implicit differentiation	3.6 Derivatives of logs	3.9 Related Rates	Mini Quiz #4 3.9 Related Rates
Week 6 Sep 25-28	Exam 1 Review	Exam 1 [Ch.2, 3.1-3.6]	3.10 Linear approximations & differentials	3.10 Differentials 3.11 Hyperbolic functions
Week 7 Oct 2-5	3.11 Hyperbolic functions	4.1 Maximums and minimums	4.2 Mean Value Theorem	Mini Quiz #5 4.3 Derivatives & graphs
Week 8 Oct 9-12	4.4 l'Hospital's Rule	4.4 l'Hospital's Rule 4.5 Curve Sketching	4.5 Curve Sketching	Mini Quiz #6 4.7 Optimization
Week 9 Oct 16-19	Exam 2 Review	Exam 2 [3.9-3.11, 4.1-4.5]	4.7 Optomization	4.9 Antiderivatives

Week 10 Oct 23-26	5.1 Area & distance	5.2 Definite integral	5.2 Definite integral	Mini Quiz #7 5.3 Fundamental Theorem of Calculus
Week 11 Oct 30-2	5.3 Fundamental Theorem of Calculus	5.4 Indefinite integrals & net change	5.4 Indefinite integrals & net change	Mini Quiz #8 5.5 Substitution rule
Week 12 Nov 6-9	5.5 Substitution rule	5.5 Substitution rule	6.1 Areas between curves	Mini Quiz #9 6.1 Areas between curves
Week 13 Nov 13-16	Exam 3 Review	Exam 3 [4.7, 4.9, Ch. 5]	6.2 Volumes	6.2 Volumes
Week 14 Nov 20-23	6.3 Volumes by cylindrical shells	6.3 Volumes by cylindrical shells	Mini Quiz #10 6.5 Average value of a function	Thanksgiving (No Classes)
Week 15 Nov 27-30	6.5 Average value of a function 7.6 Integration	7.6 Integration	7.6 Integration 7.7 Approximate integration	Mini Quiz #11 7.7 Approximate integration
Week 16 Dec 4-7	7.7 Approximate integration	8.1 Arc length	Exam 4 Review	Exam 4 [Ch. 6, 7.6 7.7]
Week 17 Dec 11-14	9.3 Separable equations	9.3 Separable equations	Final Exam Review	Final Exam Review
Week 18 Dec 18-21	Final Exam: Monday, December 18th (7am-9:45pm)			

Note: This schedule is tentative and may be altered to match the pace of the course.