

Course Syllabus
Math 1A Calculus I, Spring 2024

Section # 7218
T&TH 5:30-8PM in Lindley 251

Instructor Information

Instructor: Cortney Schultz
Email: cschultz@santarosa.edu

Office location: Kunde Hall 219
Phone: (707) 527-4705

Office Hours: All office hours are in person.

Monday & Wednesday: 2-3PM (Kunde 219)

Tuesday & Thursday: 11-12PM (Kunde 219) and 8-8:30PM (Lindley 251)

You may schedule an appointment if you have a schedule conflict with the times listed above

Email Expectations: The best way to contact Prof. Schultz is by email cschultz@santarosa.edu or by sending a message through Canvas. During the week, you can expect an email response within 24 hours. You may get a response sooner, but there is no guarantee. If you email Prof. Schultz during the weekend, you can expect a response on Monday.

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

Prerequisite: Completion of MATH 27 or higher (MATH); OR Course Completion of MATH 25 and MATH 58; OR AB705 placement into **Math Tier 4**

Student Learning Outcomes: Here is the link for Math 1A course outline at SRJC. At the conclusion of this course, the student should be able to:

1. State and apply basic definitions, properties, and theorems of first semester calculus.
2. Calculate limits, derivatives, definite integrals, and indefinite integrals of algebraic and transcendental functions.
3. Model and solve application problems using derivatives and integrals of algebraic and transcendental functions.

Required Course Materials

Calculator: A graphing calculator is required for this course. I will be demonstrating on a TI 84+. You are not allowed to use computer calculators on exams.

Textbook: *Calculus: Early Transcendentals, 9th Edition*, by James Stewart with WebAssign access code.

WebAssign Online Homework: Homework will be completed and submitted online.

Here are four purchasing options:

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

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

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

Option #4: Purchase a Cengage Unlimited subscription - you get access to all Cengage online textbooks, platforms, etc. (recommended for students who are using Cengage textbooks in other classes).

To create an account for WebAssign, go to the website: <https://www.webassign.net/wa-auth/login>

You can also access WebAssign through our Canvas course page.

Grading	Group Quizzes	10%	$A \geq 90$
	Homework	10%	$80 \leq B < 90$
	Exams (4 @ 16% each)	64%	$70 \leq C < 80$
	<u>Comprehensive Final Exam</u>	<u>16%</u>	$60 \leq D < 70$
		100%	$F < 60$

Exams

Four midterm exams and a comprehensive final exam will be given during the semester, and all exams must be taken on the scheduled dates.

If you have a DRD accommodation, it is your responsibility to discuss and schedule your exam accommodations with Prof. Schultz at least 1 week in advance.

If you miss an exam, you must contact me within 24 hours. If the absence is excused, your final exam score will replace your missed midterm score. Make-up exams are not given. If you are absent due to an illness, you are required to provide Prof. Schultz with a doctor's note.

Quizzes

Group quizzes and in-class quizzes will be given throughout the semester. You may submit group quizzes in person or on Canvas. For group quizzes, one submission for each group will be graded and everyone in that group will receive the same score – make sure to go over your solutions with your group members before turning in your quizzes! Group quizzes will be due on select **Thursdays** by 11:59PM.

There are no makeups for in-class quizzes or group quizzes. Your lowest 2 quiz scores will be dropped.

Homework Grading/Late Homework

Select homework sections will be due twice a week on _____ and _____ by 11:59PM.

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.

Attendance

Daily attendance is essential to your success in this course. You may be dropped from the course if you have more than 5 absences. Arriving late or leaving class early may count as an absence.

Class Behavior Rules

- ❖ Students are to act respectfully and pay attention while in class.
- ❖ Please arrive on time and stay for the entire class period.
- ❖ Cell phones are to be turned off or set to silent mode.
- ❖ Students are expected to read the textbook.
- ❖ Students are expected to ask questions.
- ❖ Students are expected to be active participants in their education and do their best every day.

Important Academic Calendar Dates

- Tuesday, January 16th Spring semester begins
- Sunday, January 28th Last day to drop a class and receive a refund
- Sunday, February 4th Last day to drop a class without a "W" symbol
- **Sunday, April 21st Last day to drop a class with a "W" symbol**
- **FINAL EXAM: Tuesday, May 21st (4:00 - 6:45PM)**

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 and may be reported to academic affairs for their offense. 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.

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 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.

- **SRJC Tutorial Centers** can be accessed through the website: <https://college-skills.santarosa.edu/srjc-tutorial-centers>
- **Math Lab Tutorial Center:** <https://mathematics.santarosa.edu/online-math-lab-tutoring>

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY
		5:30-8:00PM		5:30-8:00PM
Week 1 Jan 15 - 18	NO CLASS	<i>Intro & Syllabus</i> 2.1 Tangent & velocity GROUP QUIZ #1		2.1 Tangent & velocity 2.2 Limit of a function
Week 2 Jan 22 - 25		2.3 Calculating limits GROUP QUIZ #2		2.5 Continuity 2.6 Horiz. Asymptotes
Week 3 Jan 29 - 1		2.6 Horiz. Asymptotes 2.7 & 2.8 Derivatives		3.1 & 3.2 Derivative Rules
Week 4 Feb 5 - 8		EXAM 1 3.1, 3.2, 3.3 Derivative Rules		3.3 Derivatives of trig functions 3.4 Chain Rule
Week 5 Feb 12 - 15		3.4 Chain Rule 3.5 Implicit Differentiation IN CLASS QUIZ #3 (DERIVATIVE RULES)		NO CLASS
Week 6 Feb 19 - 22	NO CLASS	3.5 Implicit Differentiation 3.6 Derivatives of logs GROUP QUIZ #4		3.9 Related Rates
Week 7 Feb 26 - 1		3.10 Linear approx 3.11 Hyperbolic Functions		4.1 Maximums and minimums
Week 8 Mar 4 - 7		EXAM 2 4.1 Maxs & Mins		4.2 Mean Value Theorem
Week 9 Mar 11 - 14		4.3 Derivatives & Graphs 4.4 L'Hospital's Rule GROUP QUIZ #5		4.4 L'Hospital's Rule
Mar 18 - 21	SPRING BREAK			
Week 10 Mar 25 - 28		4.7 Optimization GROUP QUIZ #6		4.7 Optimization 4.9 Antiderivatives

Week 11 Apr 1 - Apr 4	NO CLASS	5.1 Area & Distance 5.2 Definite integral		EXAM 3 5.2 Definite Integral
Week 12 Apr 8 - 11		5.3 Fundamental Theorem of Calculus GROUP QUIZ #7		5.4 Indefinite integrals & net change 5.5 Substitution Rule
Week 13 Apr 15 - 18		5.5 Substitution rule IN CLASS QUIZ #8 (INTEGRALS)		6.1 Areas between curves
Week 14 Apr 22 - 25		6.2 Volumes GROUP QUIZ #9		6.3 Volumes by cylindrical shells
Week 15 Apr 29 - 2		6.5 Average value of a function		EXAM 4 <i>catch-up</i>
Week 16 May 6 - 9		7.7 Approximate integration GROUP QUIZ #10		8.1 Arc Length
Week 17 May 13 - 16		9.3 Separable equations		<i>Final Exam Review</i>
Finals Week May 20 - 23	Final Exam: Tuesday, May 21 (4:00-6:45PM)			

Note: Schedule is subject to change throughout the semester