

Math 1B - 21
Calculus II
De Anza College
Fall 2026

Instructor: Dr. Sebastian Laudenschlager

Location: S16

Class Times: TTh 6:30 - 8:45 PM

Email: laudenschlagersebastian@fhda.edu or Canvas (preferred)

Office Hours: TTh 4:00 - 6:00 PM in PST Village

Textbook: *Calculus Early Transcendentals*, 9th edition, by James Stewart

Student Learning Outcomes:

- Analyze the definite integral from a graphical, numerical, analytical, and verbal approach, using correct notation and mathematical precision.
- Formulate and use the Fundamental Theorem of Calculus.
- Apply the definite integral in solving problems in analytical geometry and the sciences.

Course Content:

- Analyze and explore aspects of the integral calculus
- Analyze and evaluate the definite integral as a limit of a Riemann sum and examine its properties
- Examine the Fundamental Theorem of Calculus
- Find definite, indefinite, and improper integrals using various techniques
- Apply the definite integral to applications
- Examine differential equations

Grading:

Homework:	15%
Quizzes:	10%
Participation:	5%
2 Midterms:	20% each
Final Exam:	30%

Grade Breakdown:

92.5% and above: A
90 – 92.5%: A–
87.5 – 90%: B+
82.5 – 87.5%: B
80 – 82.5%: B–
77.5 – 80%: C+
70 – 77.5%: C
60 – 70%: D
under 60%: F

Homework:

There will be weekly homework assignments from the textbook, which will be your primary way of practicing the topics and methods taught in class. Homework assignments will be posted on Canvas on Tuesdays after class and will be due the following Tuesday at the start of class.

Quizzes:

There will be weekly quizzes on the topics from that week's lectures, administered on Thursdays. Along with homework, this should serve as a checkpoint system for your learning. Your lowest quiz score will be dropped.

Exams:

There will be two midterm exams, tentatively scheduled for 10/22 and 11/19. In addition, the final exam for the course will be held on **Thursday, 12/10 6:15 - 8:15 PM**. For any given exam, you may bring with you one standard size (8.5 x 11 inches) sheet of notes (hand-written, front and back). There will be no makeup exams.

Academic Integrity:

Academic dishonesty will not be tolerated. If a student is found cheating on an exam, plagiarizing on writing assignments, or violating other codes of academic integrity, he or she will receive a failing grade for the course and may be reported to the college for an appropriate action. See section on Academic integrity:

https://www.deanza.edu/policies/academic_integrity.html

Tentative Schedule:

	Textbook Section	Topics
Week 1 (9/22 and 9/24)	5.1, 5.2, 5.3	• Area approximation • Definite Integrals • Fundamental Theorem of Calculus • Quiz 1
Week 2 (9/29 and 10/1)	5.4, 5.5	• Indefinite Integrals • Substitution Rule • Quiz 2
Week 3 (10/6 and 10/8)	6.1, 6.2	• Areas between curves • Volumes • Quiz 3
Week 4 (10/13 and 10/15)	6.3, 6.4	• More volumes • Work • Quiz 4
Week 5 (10/20 and 10/22)	6.5	• Average function values • Midterm 1
Week 6 (10/27 and 10/29)	7.1, 7.2	• Integration by parts • Trig Integrals • Quiz 5
Week 7 (11/3 and 11/5)	7.3, 7.4	• Trig substitutions • Partial fractions • Quiz 6
Week 8 (11/10 and 11/12)	7.5, 7.7	• Integration strategies • Approximate Integration • Quiz 7
Week 9 (11/17 and 11/19)	7.8	• Improper Integrals • Midterm 2
Week 10 (11/24)	8.1, 8.2	• Arc Length • Area of Surface of Revolution
Week 11 (12/1 and 12/3)	8.5, 9.1, 9.2	• Probability • Intro to Differential Equations • Quiz 8
Week 12 (12/10)	-	• Final Exam (Th 12/10: 6:15 - 8:15 PM)

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Office Hours:

4:00 PM - 6:00 PM

PST Village T,TH