

Math 12: Calculus for Business and Social Science – Fall 2026

Monday through Thursday 12:30 – 1:20 pm in E-33

Instructor: Cheryl Jaeger Balm

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Office number: S-76g

This is an IN-PERSON class which requires you to be on campus four days a week.

Tips for success (however YOU define it!):

- Expect to spend 10 hours a week outside of class studying and working on homework. *Schedule these hours just as you would work or class!*
- Form a study group, and make use of the tutoring center.
- Come to office hours, and start your assignments early so you can ask questions in office hours.
- Make an appointment to meet with me (virtually or in-person) if you are busy during regular office hours or want to talk one-on-one.

Office Hours
MESA/MPS Tutoring Center (S-54)
Mondays, Tuesdays and Thursdays
9:00 – 10:20 am

Student Learning Outcomes (aka what I hope you can do at the end of Math 1B):

1. Use correct notation and mathematical precision in the evaluation and interpretation of derivatives and integrals.
2. Evaluate, solve, interpret and communicate business and social science applications using appropriate differentiation and integration methodologies.

Textbook: *Bittinger, Calculus and its Applications* (11th ed.)

Calculators: You will need a **TI or Casio scientific calculator** that cannot calculate derivatives or integrals for this class. In addition, you may need to use the graphing website [desmos.com](https://www.desmos.com) or a graphing calculator for some homework problems.

Attendance: You are expected to be present **in-person** and **on time** for all class meetings. If you miss a class, you are responsible for covering the material before you return to class. You should get notes from a classmate and read the corresponding section of the textbook. You are also responsible for knowing about any changes to the syllabus and/or schedule that may be discussed in class. Please stay home if you are not feeling well or awaiting results from a COVID test, but otherwise you should plan to attend all class meetings.

Canvas: The class calendar, updates and announcements will be posted on Canvas, which you can access through MyPortal. I recommend that you also download the Canvas app if you have a smart phone. **Canvas Inbox is the best way to email your instructor.**

Once you have accessed **Canvas**, please go to Account → Notifications and adjust your **Notification Preferences** so that you have selected “**Notify me right away**” for Announcement, Submission Comment and Conversation Message. Other notification settings are up to you.

Cell phones and other devices: You may bring a laptop or tablet to class to access your eBook or to take notes. However, cell phones, tablets, laptops and other electronic devices must not become a distraction to you or your classmates. If I see or hear you using a device during class to access unrelated content or in a distracting manner, I may confiscate the device until the end of that class meeting. You will not be allowed to use a cell phone or tablet during any quizzes or exams.

Homework: You will be given a list of homework problems in Canvas for each section that we cover in the textbook as well as a due date for each homework set. Homework is to be turned in on paper in class on the day it is due. After each class, you are expected to work on all relevant assigned problems before the next class meeting. *Do not fall behind!* Each homework set will be worth 3 points and will be graded based on effort and completion. Late homework will be accepted with a 1-point penalty up until the date of the relevant exam.

Podcast: You will create three (3) podcast episodes for this class. Details are in the Podcast Project instructions in Canvas. All podcast due dates are listed on the class calendar and on Canvas.

Quizzes: There will be seven (7) take-home quizzes throughout the quarter. Missed quizzes will receive a 0. **No make up quizzes will be given for any reason.** All quiz due dates are on the calendar below.

Midterm Exams: There will be three (3) in-class midterm exams. Each midterm will focus on the material covered since the last exam. All midterm exam dates are on the calendar below.

Final Exam: Your final exam will be in-person **Wednesday, December 9, 11:30 am – 1:30 pm.**

Course Grades:

Podcast	Homework	7 Quizzes	3 Midterms	Final
10%	15%	15%	45% (15% each)	15%

Grade	A	B	C	D
Overall percent	≥ 90	≥ 80	≥ 70	≥ 60

Important Dates for Fall Quarter 2026:

- Sun., Oct. 4: Last day to add classes or to drop a class for a full refund and with no record of grade.
- Wed., Nov. 11: Holiday - no classes
- Fri., Nov. 13: Last day to drop with a “W.”
- Nov. 26-27: Thanksgiving Break
- Thur., Dec. 3: Last day of this class before final exams.

Disability Statement: De Anza College makes reasonable accommodations for people with documented disabilities. Please notify Disability Support Programs and Services (DSPPS) if you have any physical, psychological or other disabilities, vision or hearing impairments or ADD/ADHD. More details can be found here <https://www.deanza.edu/dsps/>

Academic Integrity: Learning involves the pursuit of truth, which cannot occur by presenting someone else’s work as your own. Each student must pursue their academic goals honestly and be personally accountable for all submitted work. **Representing another person’s work and/or AI-generated work as your own is always wrong.** Any suspected instance of academic dishonesty on any assignment will be reported to the college and may result in a 0 on the assignment and/or a failing grade in the class. For more comprehensive information on academic integrity, including categories of academic dishonesty, please refer to https://www.deanza.edu/policies/academic_integrity.html.

Tentative class schedule (subject to change):

Week	Monday	Tuesday	Wednesday	Thursday
Wk 1: Sept. 21-24	Introduction	Graphs, functions & models (R1, R2)	Domain, range & slope (R3, R4A)	Linear functions (R4B)
Wk 2: Sept. 28 - Oct. 1	Quiz 1 due Exponents, roots & factoring (App A, R5)	Limits (1.1, 1.2)	Asymptotes (2.3)	AROC (1.3)
Wk 3: Oct. 5-8	Quiz 2 due Derivative definition (1.4)	Review	EXAM 1	Power, sum & difference rules (1.5) Podcast #1 due Sunday
Wk 4: Oct. 12-15	Marginals (2.6)	Product & quotient rules (1.6)	Higher derivatives (1.8)	First derivative test (2.1)
Wk 5: Oct. 19-22	Quiz 3 due Second derivative test (2.2)	Extreme values (2.4, 2.5A)	Applications (2.5B)	Elasticity (2.7)
Wk 6: Oct. 26-29	Quiz 4 due Review	EXAM 2	Exponential functions (3.1)	Chain rule (1.7) Podcast #2 due Sunday
Wk 7: Nov. 2-5	Log functions (3.2A)	Log functions (3.2B)	Amortization (3.6)	Antiderivatives (4.1A)
Wk 8: Nov. 9-12	Quiz 5 due Integrals (4.1B, 4.3A)	Definite integrals (4.3B)	NO CLASS	Definite integral properties (4.4)
Wk 9: Nov. 16-19	Quiz 6 due Review	EXAM 3	u -sub (4.5A)	u -sub (4.5B) Podcast #3 due Sunday
Wk 10: Nov. 23-26	Integration by parts (4.6)	Growth & decay (5.2)	Improper integrals (5.3)	NO CLASS
Wk 11: Nov. 30 - Dec. 3	Quiz 7 due Differential equations (5.7)	Multivariable functions (6.1)	Partial derivatives (6.2)	Review
Wk 12: Dec. 7-10			FINAL EXAM 11:30 – 1:30	

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Office Hours:

MESA Center (S-54) T,TH,M 9:00 AM - 10:20 AM