De Anza College
Math 1B – Calculus: Fundamentals of Integral Calculus

Instructor: Danny Tran   Email: trandanny@fhda.edu

Book: *Calculus: Early Transcendentals* (9th edition) by James Stewart

Required Materials: Access to a computer; we will be using Zoom, Canvas, and WebAssign. Course materials and assignments will be posted on Canvas and WebAssign.

Grading: Homework (WebAssign) (23)   230 points
                     Quizzes (8)   160 points
                     Showing Work   30 points
                     Checkpoints   50 points
                     Math Learning Community   50 points
                     Exams (2)   240 points
                     Final Exam   240 points
                     Total   **1000 points**

WebAssign: This is the online program we will be using to complete homework assignments. You can purchase access either through WebAssign.net or by buying an access code at the De Anza Student Bookstore. Please follow the below directions:
                     1 – Go to our Canvas course.
                     2 – Click on Assignments.
                     3 – Click on any of the WebAssign / Cengage assignments.
                     4 – Register for an account.

Late Work: If you are unable to complete an assignment on time, you may request a 1-week extension through WebAssign. You will earn 50% of the points earned after the original due date.

Quizzes: You will have 1 hour to complete each quiz, after you click on the link. After you finish the quiz, take pictures or scan your handwritten work to Canvas, or you can use a tablet to complete your work and submit it as a PDF. There will be approximately 4 problems per quiz.

Exams & Final: You will have 2 hours to complete each exam (2 hours 30 minutes for the final), after you click on the link. After you finish the exam, take pictures or scan your handwritten work to Canvas, or you can use a tablet to complete your work and submit it as a PDF. There will be approximately 10 problems per exam and 12 problems on the final.

Expectations:
Math 1B is an incredibly challenging course; be sure you put yourself in the best situation to succeed by having terrific study habits. Below is a list of tasks I recommend that you do in order to best succeed in this course & prepare yourself for calculus:
   ✓ Watch all videos and read the textbook
   ✓ Complete all homework
   ✓ Review your notes each day, making sure you have understood the material
   ✓ Attend office hours (Zoom)
   ✓ Form study groups to complete homework, study for exams

- ✓ Read the textbook
  - o Read explanations
  - o Work through the completed examples
  - o Complete extra practice problems

<u>Grades</u>:

A	[93%, 100%]	B+	[87%, 90%)	C+	[77%, 80%)	D	[60%, 70%)
A-	[90%, 93%)	B	[83%, 87%)	C	[70%, 77%)	F	[0%, 60%)
		B-	[80%, 83%)				

Math Learning Community:

Each week, in the Discussions section of our Canvas course, you are expected to either:
- Ask a substantive math question about course material, or
- Answer a peer's question with a meaningful explanation.

Posts must focus on *reasoning and understanding*, not just answers.

Low-effort, copied, or AI-generated responses will not receive credit.

The goal is to build a collaborative learning space where explaining math is part of learning math.

What Counts as "Substantive"

A Substantive Question:

☑ Acceptable:
- "I understand how to compute displacement, but I don't see why distance requires absolute value here. Can someone explain using the graph?"
- "Why do we split the integral at x = 2 in this example? What breaks if we don't?"

✖ Not acceptable:
- "How do you do #4?"
- "I don't get this."
- "What's the answer?"

A Substantive Answer:

☑ Acceptable:
- Explains *why*, not just *how*
- Refers to a graph, sign analysis, or interpretation
- Identifies a common mistake

✖ Not acceptable:
- Just the final answer
- Copy-paste solution
- "Because that's the rule"

Student Learning Outcome(s):

• 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.

Office Hours:

M,T,W,TH	9:10 AM - 9:30 AM	S75
F	1:00 PM - 2:50 PM	Zoom