

Math D001B.13 - CALCULUS

(13667)

Summer 2024

Instructor: VINH NGUYEN

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Class Location and Time: MTWTh 03:00 PM – 5:15 PM in person in E32.

Office Hours: 5:15 – 5:45 PM in person in E32.

Questions: Please email me and identify yourself and the course you are enrolled in if you have any questions, and I will respond to your email within 24 hours. Otherwise, please resend.

Textbook: Calculus-Early Transcendental, 9th edition, by James Stewart.

Course Description: This course examines the fundamentals of integral calculus.

Calculator and other materials: I do not require a graphing calculator, but you are welcome to use it for your homework. During the exam, only scientific calculators are allowed. To prepare for quizzes and exams, I recommend that you should keep a notebook where you take notes and work on the problems throughout your homework. You should read the textbook before the class.

Attendance: This class is an in-person class. Students are expected to attend all classes on time. Students who are absent more than four times may be dropped from the class. **However, it is the students' responsibility to drop by the appropriate deadline. Petitions to drop after the deadline will not be considered by the instructor.**

Homework: Homework is the key to success in this class. If you submit your homework late, you will lose your points. Plan for minimum of **TWO HOURS** to do homework for each class lesson. In the course schedule, I have included a list of suggested homework problems from each section. You are responsible for solving at least of the suggested problems. You are responsible for knowing how to solve ALL the problems. There is a direct correlation between your level of confidence with the homework problems and your success in this class. Each section is worth 10 points. There are 24 sections in total. So, you can **get up to 240 points**.

Quizzes: There will be in class or take-home quizzes. Each quiz is worth 20 points. Quizzes will be given randomly at any part of the class period. **There are no make-up quizzes**. A missed quiz for any reason (including coming late or leaving early) will count as a zero.

Midterms: **THREE midterm examinations** will be given on the midterm exam day (see the schedule below.) No makeup exams. If you miss a midterm due to what I consider an emergency and you provide appropriate documentations, I will replace that one grade with your final. If I don't consider your reasoning as an emergency, you will receive a zero for that midterm. Each

exam is worth **130 points**. You are only allowed to use scientific calculators and 1 side page of notes on the midterm exam day.

Final Exam: One comprehensive examination will be given from **4:00 PM – 6:00 PM on MONDAY**. (This is school scheduled final exam time. It cannot be changed by the instructor.) **Any students who miss the final will receive an F grade for the course.**

Withdrawal Policy: The withdrawal deadline for the quarter is on Tuesday July 30th, 2024. If students withdraw before this date, they will receive a “W”. After this date, an “F”.

Academic Honesty and Discipline Policy: Students are expected to abide by the college code of conduct. All work turned in is to be the student’s own. Students giving or receiving help on a test or quiz will forfeit all points for the assignment or may be withdrawn from the course with a grade of “F”. For take home assignments, any student turning in a work, which is the same or similar of another student, will be required to schedule a conference to discuss the matter with mem and any evidence of cheating will result in no points for that assignment and will be reported for further action.

Grading Policy:

Homework	240 points (24%)
Quizzes	120 points (12%)
Exam	390 points (39%)
Final	250 points (25%)
Total	1000 points (100%)

Tentative Schedule:

Week	Monday	Tuesday	Wednesday	Thursday
1	July 1 5.1 +5.2	July 2 5.2 +5.3	July 3 5.3+5.4, Hw1, Q1	July 4 No Class
2	July 8 5.5+6.1, Hw2	July 9 6.1+6.2, Q2	July 10 6.2	July 11 EXAM 1. Hw3
3	July 15 6.3+6.4	July 16 6.4+6.5, Hw4	July 17 7.1+7.2, Q3	July 18 7.2+7.3, Q4
4	July 22 EXAM 2, Hw6	July 23 7.4+7.5	July 24 7.6+7.7, Q5, Hw7	July 25 7.7+7.8, Q6
5	July 29 8.1+8.5, Hw8	July 30 9.1+9.2	July 31 EXAM 3 H7	Aug 1 9.3+9.4, Hw9
6 Final Week	Aug 5 Final Exam from 4:00 PM to 6:00PM, Hw10			

The top two scores in class that are above 98% will receive A+. The student is responsible for saving all graded, returned work. There will be no discussion of grade discrepancies unless the student has a graded copy of the work in question.

Quarter Grade:

Points	Percentage	Letter Grade
≥ 930 points	≥ 93%	A
900 points – 929 points	90% - 92.9%	A-
870 points – 899 points	87% - 89.9%	B+
830 points – 869 points	83% - 86.9%	B
800 points – 829 points	80% - 82.9%	B-
770 points – 799 points	77% - 79.9%	C+
730 points – 769 points	73% - 76.9%	C
670 points – 729 points	67% - 72.9%	D+
630 points – 669 points	63% - 66.9%	D
600 points – 629 points	60% - 62.9%	D-
< 599 points	< 59.9%	F

Disabled Services: Students who have been found to be eligible for accommodations by Disability Support Services (DSS), please follow up to ensure that your accommodations have been authorized for the current quarter. If you are not registered with DSS and need accommodations, please go to <https://www.deanza.edu/dsps/dss/>

Tips for Success:

- “DO NOT PROCRASTINATE”
- If you ever have any questions, email me! You are welcome to send an email whenever you need help!
- Visit the Online Tutoring Center.
- Get to know your classmates and study together.
- Copy the notes from all lectures, participate in class, practice to do your homework.
- Read the sections to be discussed in class prior to the lecture.
- Again, seek help if you are feeling behind the class.

Homework Problems: This is the tentative one. I will add or delete it depending on the situation. I recommend doing ALL the problems from the textbook.

Section	Problems	Homework #
5.1	1,4,7,13,21,25,27	Hw1: Section 5.1
5.2	1,4,7,10,17,20,23,28,30,33,37,40,56,57,64,70	+ 5.2
5.3	1,4,7,10,13,16,19,22,25,28,31,34,37,40,43,59,62	Hw2: Section 5.3
5.4	1,4,7,10,13,16,21,24,27,30,33,36,37,39,42,45	+ 5.4
5.5	1,4,7,10,13,16,19,22,25,28,31,34,37,40,43,46,53,56,59,62,65,68,71	Hw3: Section 5.5 + 6.1
6.1	1,4,7,10,13,16,19,22,25,28	
6.2	1,4,7,10,13,16,19,22,25,28,31,34,41,48,50,60,63,66	Hw4: Section 6.2
6.3	1,4,7,10,13,16,19,22,25,31,37,40,47	+ 6.3
6.4	1,4,7,10,13,16,19,22,24,25,28	Hw5: Section 6.4
6.5	1,4,7,10,13,16,19,22,25,26	+ 6.5
7.1	1,4,7,10,13,16,19,22,25,28,31,34,37,40,47,50,53,61,72	Hw6: Section 7.1
7.2	1,4,7,10,13,16,19,22,25,28,31,34,37,40,43,46,49	+ 7.2
7.3	1,2,4,5,7,8,10,11,13,14,16,17,19,20,22,23,25,26,28,29,31,32	Hw7: Section 7.3
7.4	1,2,3,4,5,6,7,10,13,16,19,22,25,28,31	+ 7.4 + 7.5
7.5	1,6,11,16,21,26,31,36,41,46,51,56,61,66,71,76,81	
7.6	1,4,7,10,13,16,19,22,25,28,31	Hw8: Section 7.6
7.7	1,6,10,16,21,27	+ 7.7 + 7.8
7.8	1,2,5,8,11,14,17,20,23,26,29,32,35,38,49,51,54,59	
8.1	1,4,7,10,13,16,19,25,33,35,39	Hw9: Section 8,1
8.5	35,37, 43,47,49,57,71,75	+ 8.5 + 9.1 + 9.2
9.1	1(a),4(a),7,10,13,16,27,33,35,37	
9.2	1,4,7,10,14,22,23,25,28,30,33,35	
9.3	1,5,6,8	Hw10: Section
9.4	1,4,7,10,13	9.3 + 9.4

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.