Math-1D-09Z Calculus De Anza College Winter 2022

CLASS MODE: 100% synchronous.

Course structure: weekly materials are divided into modules. Each module follows the tentative course calendar on page#3. Canvas Module tab is where you will find everything for the course during each week. Each module will be available for accessing and viewing on Sunday at the beginning of each lecture week.

All the materials will be posted on Canvas Modules tab including recorded lecture videos, lecture notes, solutions to tough problems, websites for additional study, discussion topics, quizzes, exams, final, and much more. It is the student's responsibility to check Canvas daily once the quarter starts for latest updates from the instructor.

Instructor: Vinh Kha Nguyen
Office hour: F 9-10am on Canvas Zoom
How to contact instructor: nguyenvinh@fhda.edu or Canvas Inbox the instructor (preferably)

Textbook: CALCULUS: EARLY TRANSCENDENTALS, 9th edition by James Stewart. An eText or .pdf textbook is ok to use, get access to eTextbook instantly for less than $50.
https://www.cengage.com/c/calculus-9e-stewart/9781337624183PF/

Required Materials: Textbook (homework) and a calculator (preferably Ti-83/84 or better).

Meeting Time: M-F 12:30AM-1:20PM, live lecture on Canvas Zoom (see course schedule on pg.3 for more detail)
Live lecture will be recorded and uploaded on Canvas Module.
To access live lecture, student needs to log onto Canvas and access the Canvas Zoom tab.

Grade is composed of 6 homework, quizzes and discussions, 5 exams and 1 final.

0-59.99% F	80-82.99% B-	90-92.99% A-
60-69.99% D	83-86.99% B	93-96.99% A
70-76.99% C	87-89.99% B+	97-100.99% A+
77-79.99% C+		

homework	quizzes & discussions	exams	final	total
60pts	60pts	200pts	80pts	400pts

Homework: practice problems to reinforce learning materials. *Late homework gets 0pts regardless of excuses.*
Student must submit hw on the Canvas Assignment tab or Canvas Module tab on the due date to get credit.
Discussions: each discussion topic is posted on Canvas Module. Student has one week to reply to each discussion. Each discussion topic help students to develop their critical thinking and writing skills. Students must reply to the discussion topic during the week it is available on Canvas Modules. *Late discussion reply gets 0pts.*
Quiz: each quiz date is posted on the course calendar. *Missed quiz gets 0pts regardless of excuses.*
Syllabus & Canvas Quiz: *must be taken during first week of class on Canvas. If not, students are considered not interested in the course, and may be dropped from the course after one week.*
Exam: each exam date is posted on the course calendar. *Missed exam gets 0pts regardless of excuses.*
Final: comprehensive! Will be given during final week. There is no make-up for final exam.

If you notice that I made an error on the grading, you are responsible to inform me within a week of the date of the exam/quiz. Otherwise, your score on the exam/quiz will be unchangeable.

Makeup Policy: No makeup quizzes or exams are available. However,
Only one missed quiz due to an excused absence or emergency will be covered by the next quiz (doubling points).
Only one missed exam due to an excused absence or emergency will be covered by the final exam (converted to a percentage).
Student must notify the instructor in advance of a missed quiz or a missed exam to use the makeup policy.

Exam & Quizzes procedure:

- All exams and quizzes in this class are online on Canvas Modules tab with specific dates and time limit.
- Each exam is one hour long, and there is no dropping lowest exam score.
- Make sure you have fully studied and well prepared before you take each exam.

- The best way to prepare for the exam is to do the homework and redo problems from lectures.

Time Commitment: As stated in the course catalog, students are expected to spend at least two hours studying, reviewing in class problems, and doing homework outside of class for each hour in class.

Grade improvement: Math is challenging, and the only way to build confidence is through practice and more practice. Other strategies: take good note during lecture, form study group, do hw sooner than later, seek help when need help, understanding rather than memorizing, prioritize tasks, do not multi-tasking while studying, etc.

Campus tutoring, additional assistance, and Internet resources:

- On campus tutoring in S43: https://www.deanza.edu/studentsuccess/mstrc/
  M-Th 8:30am-6pm, F 8:30am-12:30pm
- Online tutoring: https://www.deanza.edu/studentsuccess/onlinetutoring/
- Student's services: https://www.deanza.edu/services/
  Disability Support Service, EOPS, Veterans, CalWORK, Foster Youth, Food Pantry, Health Service, etc.
- The Internet: Youtube lecture video, Khan Academy, Paul's note, Wolfram Alpha, Microsoft Math Solver, Desmos, GeoGebra, etc.

Students Responsibility:

- Students are responsible to read the syllabus word by word and honor the syllabus.
- Students are expected to behave as educated adults, and students must be hold accountable for any misconduct.
- Since the pace of the class may be quite fast at time, you are expected to seek help as soon as you realize that you are fallingbehind. Visit campus tutoring center, form study groups, and visit instructor office hours when possible. Instructor is alwaysavailable for help or advice.
- Take good note by yourself or from another classmate. A detailed lecture note is one of the best resources to do homeworkand to prepare for exams and final.

Attendance: Students are expected to attend all class meetings, arrive on time, take note, and stay for the entire class. The instructor reserves the right to drop/withdraw students who are absent more than five lectures during the quarter. However, **a student who discontinues coming to class and does not drop the course will get an F**. It is the student's responsibility to drop the course.

Withdrawal/Drop Policy: It is the ultimate responsibility of the student to formally drop the class. Do not rely on the instructor to drop.

Disruptive Student: A student who is disruptive will be asked to leave the class. A student who refuses to leave the room will be dropped from the class and will be reported for further action.

Smartphone Use: All smartphones must be on silent mode and put away during lecture. We do not learn how to text or searching the Web in this class, so there is no reason to have smartphones out during class unless the instructor allows so to access Wolfram Alpha or GeoGebra during group work.

Academic Dishonesty: Students who submit the work of others as their own or cheat on exams or other assignments will receive a failing grade F in the course and will be reported to college authorities.

Expected Student Conduct: A student who is disruptive will be asked to leave the class. A student who refuses to leave the room will be dropped from the class and will be reported for further action. During the quarter, if you have any questions about the course policies, you will be first referred to this syllabus. Please make sure you keep a copy. You can find Foothill-De Anza College Code of Conduct at https://www.deanza.edu/student-development/conduct.html

Accommodation: Students who need additional accommodations, due to learning disability or some other reason, please contact the instructor during the first two weeks of class to discuss your options. Disability Support Services determines accommodations based on appropriate documentation of disabilities. DSS is located in Student Community Services building room 141, and their phone number is (408) 864-8753.

Tentative Calendar

M	T	W	Th	F
1/3 Syllabus	1/4 14.1 level curves and sketching surfaces	1/5 14.2 limits and continuity	1/6 14.3 partial derivatives	1/7 14.3
1/10 14.4 tangent plane	1/11 14.4 differentials	1/12 14.5 chain rule	1/13 14.5	**1/14 Hw#1 due** **EXAM#1**
1/17 Martin Luther King Holiday	1/18 14.6 direction derivatives	1/19 14.6	1/20 14.7 max/min values	1/21 14.7
1/24 14.8 Lagrange's method	1/25 14.8	**1/26 Hw#2 due** **EXAM#2**	1/27 15.1 double integral over rec. region	1/28 15.2 double integral over general region
1/31 15.2	2/1 15.3 double integral using polar coords	2/2 15.3	2/3 15.4 application of double integrals	**2/4 Hw#3 due** **EXAM#3**
2/7 15.6 triple integral in rectangular coords	2/8 15.6	2/9 15.7 triple integral in cylindrical coords	2/10 15.7	2/11 15.8 triple integral in spherical coords
2/15 15.8	2/16 15.9 integration using transformation	2/17 15.9 integration using transformation	**2/18 Hw#4 due** **EXAM#4**	2/19 President's Day Holiday
2/21 President's Day Holiday	2/22 16.1 vector fields and conservative vector fields	2/23 16.2 line integral of scalar functions	2/24 16.2 mass and center of mass	2/25 16.2 line integral of vector functions
2/28 16.3 Theorem of line integral (conservative vector fields)	3/1 16.3	3/2 16.4 Green's Theorem	3/3 16.4	**3/4 Hw#5** **EXAM#5**
3/7 16.5 curl and divergence	3/8 16.6 surface area	3/9 16.6	3/110 16.7 surface integral	3/11 16.7
3/15 16.7	3/16 16.8 Stoke theorem	3/17 16.8	3/18 16.9 Gauss theorem	3/19 16.9
3/21	3/22	**3/23 Hw#6 due** **FINAL EXAM** **11:30-1:30pm**	3/24	3/25

1/16 Last day to add
1/17 Last day to drop
2/25 Last day to drop with a W
3/21-3/25 Final Exam week

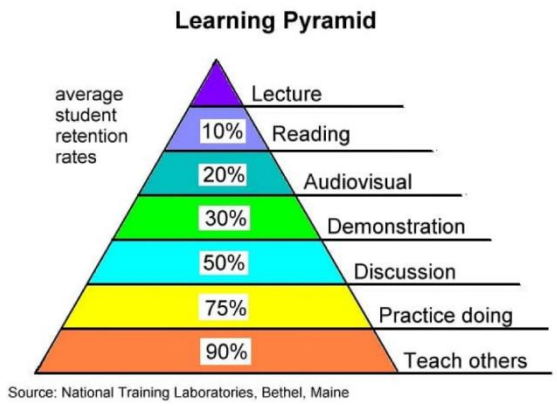
Math 1D Homework

- Homework is graded on completeness and neatness, see tentative course calendar for due date.
- Why should students care about showing work and getting the correct answers?
    - **Practice makes confidence**
    - **Help to do similar problems much faster on exam**
- Students are responsible to do all homework and submit the work on time,
    - Hw without show work will be -1pt for each section (Do not write only the answer)
    - Submit one file per section. (Do not combine sections into a single file)

Late hw gets a solid 0pt, so do not submit late hw.

NOTE: To scan and upload hw with your phone, I recommend you to use the free Adobe Scan app.

Hw#1
14.1 #3,17,23,25,27,29,31,45,47 pg.946-949
14.2 #5,7,9,11,13,15,17,19,21,23,25,31,33,49 pg.960-961
14.3 #9,13,21,37,47,59,63,81 pg.969-972
14.4 #1,2,5,7,9,19,23,24,41,43,47 pg.981-983
14.5 #1,2,5,7,9,10,13,15,27,39,43 pg.991-992
Hw#2
14.6 #5,7,9,11,13,15,17,23,27,29,37,39 pg.1005-1006
14.7 #3,7,19,33,37,39,43,55 pg.1016-1018
14.8 #1,3,7,9,17,19,27,41,55,57 pg.1026-1028
Hw#3
15.1 #9,15,17,19,29,38,41,49 pg.1049-1051
15.2 #3,7,9,13,21,25,27,31,39,61,53 pg.1059-1061
15.3 #11,13,23,24,29,31,35,39,41 pg.1067-1069
15.4 #1,7,13,15,19 pg.1078
Hw#4
15.6 #3,5,9,10,11,12,17,21,25,43 pg.1092-1094
15.7 #1,3,15,16,21,23,25,31 pg.1100-1101
15.8 #1,3,15,19,20,21,22,25,27,37,43,45 pg.1106-1107
15.9 #1,11,13,17,19,21,25,30 pg.116-117
Hw#5
16.1 #13,15,19,21,25,27 pg.1130
16.2 #1,3,5,7,9,11,13,21,23,41,43,45 pg.1141-1143
16.3 #3,5,7,13,17,19,23,25,29 pg.1152-1153
16.4 #5,7,9,11,13,15,17,25 pg.160
Hw#6
16.5 #1,3,5,7,15,17,19 pg.1168-1169
16.6 #3,5,21,23,25,39,41,43,45,61 pg.1180-1182
16.7 #5,7,9,15,17,19,21,23,25,27,43,47 pg.1193-1194
16.8 #3,5,6,9,11,13 pg.1199-1200



16.9 #5,7,9,13,15 pg.1206

Student Learning Outcome(s):

*Graphically and analytically synthesize and apply multivariable and vector-valued functions and their derivatives, using correct notation and mathematical precision.

*Use double, triple and line integrals in applications, including Green's Theorem, Stokes' Theorem and Divergence Theorem.

*Synthesize the key concepts of differential, integral and multivariate calculus.