CLASS MODE: 100% synchronous with SPECIFIC online meeting days and times each week.

Course structure: weekly materials are divided into modules. Each module follows the course calendar on page#3. Canvas Module 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 including live video lectures, solutions to tough problems, website for additional study, quizzes, exams, and final. It is the student's responsibility to check Canvas daily once the quarter starts for latest updates from the instructor.

SPECIAL NOTE: All registered students must do the Canvas & Syllabus Quiz during the first day of class to stay in the class. If you fail to do the Canvas Syllabus Quiz, you may be dropped from this class.

Instructor: Vinh Kha Nguyen
Office hour: T 2-3pm on Canvas Zoom
How to contact instructor: nguyenvinh@fhda.edu or Canvas Inbox the instructor (preferably)

Textbook: SINGLE VARIABLE CALCULUS: EARLY TRANSCENDENTALS, 8th edition by James Stewart.
                  Either hard copy or eText or .pdf textbook is ok to use.

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

Meeting Time: M-F 10:30AM-11:20AM, live lecture on Canvas Zoom (see course schedule on pg.3 for more detail)
Live lecture will be recorded and uploaded on Canvas Module.
Canvas Zoom link: https://cccconfer.zoom.us/j/3142016776

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: each hw due date is posted on the course calendar. *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.

Quizzes and Discussions: will be posted on Canvas. Students are responsible to check Canvas Modules page every lecture day for check-up quizzes (similar to in-class pop quizzes). *Missed quiz/discussion gets 0pts regardless of excuses.*
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 procedure:
- All exams and quizzes in this class are online on Canvas Assignment tab and Canvas Modules tab.
- Each exam is one hour long, and there is no dropping lowest exam score.
- No time extension and no partial credit.
- Make sure you have fully studied and well prepared before you take each exam.

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
- 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' expectations and responsibility:
- Students are expected to behave as educated adults, be accountable for any of your actions.
- 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 falling behind. Visit campus tutoring center, form study groups, and visit instructor office hours when possible. Instructor is always available for help or advice.
- *What? Is there a time commitment for this class?* YES, **students are expected to spend at least two hours studying, reviewing, redoing in class problems, and doing homework outside of class for each hour in this class.**
- Take good note by yourself or from another classmate. A detailed lecture note is one of the best resources to do homework and 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 is no longer interested in the 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 (or kicked out of Zoom live lecture). 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 (or live lecture) 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.
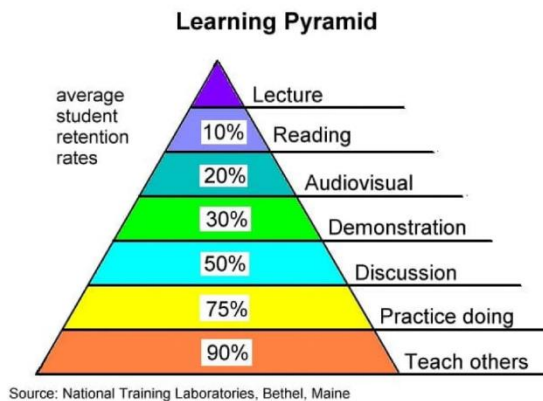
Expected Student Conduct: A student who is disruptive will be asked to leave the class. A student who refuses to leave the room will be dropped from the class and will be reported for further action. During the quarter, if you have any questions about the course policies, you will be first referred to 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 Schedule

M	T	W	Th	F
1/4 Syllabus&Canvas **Syllabus&Canvas Quiz**	1/5 14.1 level curves and sketching surfaces	1/6 14.2 limits and continuity	1/7 14.3 partial derivatives	1/8 14.3
1/11 14.4 tangent plane	1/12 14.4 differentials	1/13 14.5 chain rule	1/14 14.5	**1/15 Hw#1 due EXAM#1**
1/18 Martin Luther King Holiday	1/19 14.6 direction derivatives	1/20 14.6	1/21 14.7 max/min values	1/22 14.7
1/25 14.8 Lagrange's method	1/26 14.8	**1/27 Hw#2 due EXAM#2**	1/28 15.1 double integral over rec. region	1/29 15.2 double integral over general region
2/1 15.3 double integral using polar coords	2/2 15.3	2/3 15.4 application of double integrals	2/4 15.4	**2/5 Hw#3 due EXAM#3**
2/8 15.6 triple integral in rectangular coords	2/9 15.6	2/10 15.7 triple integral in cylindrical coords	2/11 15.7	2/12 President's Day Holiday
2/15 President's Day Holiday	2/16 15.8 triple integral in spherical coords	2/17 15.8	2/18 15.9 integration using transformation	2/19 15.9
2/22 Hw#4 due EXAM#4	2/23 16.1 vector fields	2/24 16.2 line integral Center of mass	2/25 16.2 Work by force field	2/26 16.3 Fundamental theorem of line integral
3/1 16.3 Theorem of line integral	3/2 16.3	3/3 16.4 Green's Theorem	3/4 16.4	**3/5 Hw#5 EXAM#5**
3/8 16.5 curl and divergence	3/9 16.6 surface area	3/10 16.6	3/11 16.7 surface integral	3/12 16.7
3/15 16.8 Stoke theorem	3/16 16.8	3/17 16.9 Gauss theorem	3/18 16.9	**3/19 Hw#6 due** Catching up
3/22	3/23	3/24	**3/25 FINAL EXAM 9:15-11:15AM**	3/26

1/16 Last day to add
1/17 Last day to drop
2/26 Last day to drop with a W
3/22-3/26 Final Exam week

Learning Pyramid

average student retention rates

Lecture
10% Reading
20% Audiovisual
30% Demonstration
50% Discussion
75% Practice doing
90% Teach others

Source: National Training Laboratories, Bethel, Maine

CALCULUS 1D Homework
- Homework is graded on completeness and neatness, see tentative 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 **Last Name, First Name format** is -1pt
    - Hw without clear sections labeling & problems listing is -1pt
    - Starting new section NOT on new paper will be -1pt
    - Hw without show work will be -1pt for each section (Do NOT write only the answer)
    - Late hw gets a solid 0pt, so do not submit late hw.

Q: How to submit hw?

A: Scan and upload everything in .pdf file. You can use a smartphone to scan your hw problems or convert pictures of your hw problems into .pdf format. Then upload the .pdf file to the Assignment Tab or appropriate Module Tab on Canvas by or before the due date.

Hw#1
14.1 #8, 13, 15, 17, 19, 25, 27, 29, 36, 41, 44, 45, 47, 49, 55, 67, 69 pg. 899-903
14.2 #1, 5, 7, 9, 13, 15, 17, 29, 31, 33, 35, 37 pg. 910-911
14.3 #15, 17, 18, 19, 20, 21, 25, 33, 34, 53, 55, 57, 75, 77, 83, 91 pg. 924-927
14.4 #1, 2, 3, 4, 6, 34, 35, 39, 40 pg. 934-936
14.5 #1, 3, 5, 7, 9, 11, 21, 23, 27, 29, 35, 41, 49 pg. 943-945
Hw#2
14.6 #1, 2, 7, 9, 13, 15, 17, 21, 23, 25, 29, 31, 33 pg. 956-957
14.7 #3, 5, 11, 15, 19, 21, 31, 35, 37, 41, 43, 51, 53 pg. 967-968
14.8 #1, 3, 5, 7, 9, 21, 23, 29, 31, 35, 37 pg. 977-978
Hw#3
15.1 #15, 17, 19, 21, 23, 25, 27, 31, 33, 40, 43 pg. 999-1000
15.2 #5, 9, 15, 16, 19, 20, 23, 24, 25, 26, 35, 38, 45, 47, 59, 51, 53 pg. 1008-1009
15.3 #1, 3, 5, 7, 9, 11, 19, 21, 23, 25, 27, 29, 30, 31, 32, 39 pg. 1014-1015
15.4 #1, 2, 5, 11, 13, 15, 16, 19, 27, 28 pg. 1024-1026
Hw#4
15.6 #3, 4, 5, 6, 7, 8, 9, 13, 17, 21, 27, 33, 35 pg. 1037-1039
15.7 #1, 3, 7, 9, 15, 17, 21, 23, 25a, 29 pg. 1043-1044
15.8 #1, 3, 9, 21, 23, 25, 27, 35, 41 pg. 1049-1051
15.9 #1, 3, 5, 11, 13, 23, 25, 27 pg. 1060
Hw#5
16.1 #11-18, 21, 22, 23, 24, 35 pg. 1073-1074
16.2 #1, 3, 5, 9, 11, 13, 15, 18, 19, 21, 33, 39, 41, 45 pg. 1084-1086
16.3 #1, 3, 5, 7, 9, 13, 15, 17, 23, 25 pg. 1094-1095
16.4 #1, 5, 7, 9, 11, 13, 17, 19, 28 pg. 1101-1103
Hw#6
16.5 #1, 3, 5, 7, 9, 13, 15, 19, 21, 22, 37 pg. 1109-1110
16.6 #19, 21, 23, 25, 39, 41, 43, 45, 47, 49 pg. 1120-1121
16.7 #5, 7, 9, 21, 23, 25, 27 pg. 1132-1133
16.8 #1, 3, 5, 7, 9, 14, 17 pg. 1139
16.9 #5, 7, 9, 11, 13 pg. 1145

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.