

**CLASS MODE: 100% asynchronous or 100% online.**

**Course structure:** weekly materials are divided into modules. Each module follows the tentative 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 will be dropped on the second day of class.**

**Instructor:** Vinh Kha Nguyen

**How to contact instructor:** [nguyenvinh@fhda.edu](mailto: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 graphing calculator Ti-83/84 or better.  
However, calculator is not allowed on all quizzes, exams, and final.

**Grade** is composed of 6 homework, 3 quizzes, 2 exams and 1 final.

0-59% F	80-82% B-	90-92% A-
60-69% D	83-86% B	93-96% A
70-76% C	87-89% B+	97-100% A+
77-79% C+		

homework	quizzes	exams	final	total
60pts	60pts	160pts	120pts	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.*

**Quiz:** each quiz date is posted on the course calendar. *Missed quiz 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.*

**Extra credit:** There is no extra credit in this class and no dropping lowest exam or lowest quiz, students must be serious about this class and students are expected to work hard from the start to the end of quarter.

**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
- Each quiz is 30 minutes long and each exam is 2 hours long
- No time extension and no partial credit
- Make sure you have fully studied and well prepared to take each exam
- Remember procrastination and careless mistakes are costly

**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' 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 & Withdrawal/Drop Policy:** If you are no longer interested in the class, and no longer participate in online quizzes and exams, you must drop the class. Failure to do so will result in an F grade. 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.

**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 to follow each week

M	T	W	Th
6/29 Syllabus (10min) 14.1 level curves and sketching surfaces 14.2 limits and continuity	6/30 14.3 partial derivatives	<b>7/01 Hw#1, Quiz#1</b> 14.4 tangent plane and differentials	7/02 14.5 chain rule
7/06 14.6 directional derivatives	7/07 14.7 max/min values	7/08 14.8 Lagrange's method	<b>7/09 Hw#2 Exam#1</b>
7/13 15.1 double integral over rec. region 5.2 double integral over general region	7/14 15.3 double integral using polar coords	7/15 15.4 applications of double integrals	<b>7/16 Hw#3, Quiz#2</b> 15.6 triple integrals
7/20 15.7 triple integral in cylindrical coords	7/21 15.8 triple integral in spherical coords	7/22 15.9 Jacobian Matrix and change of variables	<b>7/23 Hw#4 Exam#2</b>
7/27 16.1 Vector Fields 16.2 Line Integral	7/28 16.3 Fundamental Theorem of Line Integral	7/29 16.4 Green's Theorem	<b>7/30 Hw#5, Quiz#3</b> 16.5 Curl and Divergence 16.6 Surface Area
8/03 16.7 Surface Integrals	8/04 16.8 Stoke's Theorem	8/05 16.9 Gauss' Theorem or Divergence Theorem	<b>8/06 Hw#6 Final Exam</b>

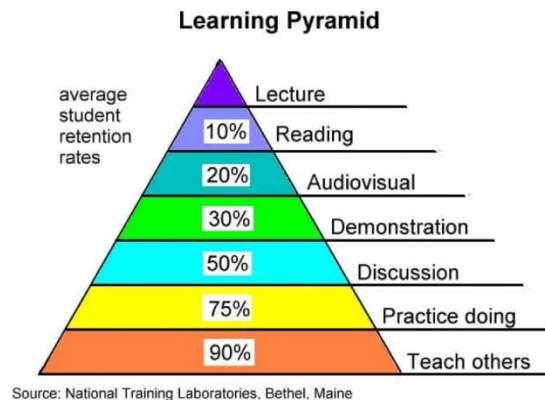
7/02 Last day to add a class

7/06 Last day to drop no show

7/07 CENSUS

8/04 Last day to drop a class with W

8/06 Final Exam



## 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

### Hw#2

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

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.