

Math 1A

De Anza College, Cupertino.

Quarter- Summer 2022

Course: Math – D001A20Z – Calculus 1

CRN # 13180-01

Time- MTWTh, 12:30 a.m. to 2:45 p.m.

Room- Online synchronous on Zoom.

Prerequisite: Math 41, Math 42.

Texts and (1) Calculus Early Transcendentals, 9th Edition. Author: James Stewart

Equipment: (2) Graphing Calculator. TI-83 plus/ TI 84 plus Calculator.

Instructor: H. K. SHAH. Email: shahhemendra@fhda.edu

Web Assign course name: Calculus 1, Math 1A, Summer 2022. HKSHAH, De Anza College.

This WebAssign course is integrated in CANVAS. So, students are doing homework through CANVAS, not on WebAssign.

Attendance: Students are expected to attend all class meetings without tardy. Student with three recorded absences will be dropped from the course. If student decides to drop the course, it is his/her responsibility to drop the course. Student disappearing get F grade. There are 20 points for attendance, for each absence 5 points will be deducted.

Course Objectives: I shall cover chapters 2 to 4, and partially chapter 10. Chapter 1 covers the topics students already have studied in Pre-Calculus. I assigned homework of chapter 1 for your review. New topics we are going to cover are Limits and Continuity, Differentiation, applications of Differentiation, antiderivatives, and parametric equations. It is an intensive course, needing 6 to 8 hours of study time per week outside the class during regular quarters, for summer quarters it will twice the time . We are going to use TI-83/84 plus graphing calculator intensively.

Homework: Students will do homework through CANVAS using Enhanced Web Assign Program. It is integrated in our CANVAS course. Late homework will not be accepted for grading purpose.

Examinations: There will be three midterm tests, each of one hour, and three quizzes each of 25-30 minutes. There will be no make-ups for missed exams/final or quizzes. If only one test is missed due to unavoidable circumstance, and the instructor is notified in advance or quickly; the final exam percent will be replaced as missed test percent provided you scored 85/130 in final exam. If you are not absenting in any exam, the final exam percent will replace your lowest exam score (if it helps), provided your final exam score is at least 85/130. A comprehensive final examination of two hours will be given on Thursday , 4th August 2022, during 12:30 to 2:45 pm in our classroom. Students absent in the final exam will get F grade.

Disruptive behavior: De Anza College will enforce all policies and procedures set forth in the *Standards of Students Conduct* (refer catalogue). Any student disrupting a class may be asked to leave that class. Administrative follow-up may result. **Cell phone is not allowed during all the examinations.**

Academic Integrity: All exams are closed book and notebooks. You can use printed pages of formula Sheets I have provided on CANVAS. It is assumed that all students will pursue their studies with integrity and honesty; however, all students should know that incidents of academic dishonesty like cheating and plagiarism are taken very seriously. Students involved in cheating will be dropped and get F for the course. Further disciplinary action by administration will follow.

Grades:

Grade scale	Points range	Percentage range		Examination	points
A+ 4.0	476 to 500	95 + to 100 %		Three Tests	3x75 = 225
A 4.0	456 to 475	91 + to 95 %		Three Quizzes	3x25 = 75
A_ 3.7	436 to 455	87+ to 91 %		Homework	50
B+ 3.3	416 to 435	83+ to 87 %		Class attendance	20
B 3.0	396 to 415	79+ to 83 %		Final examination	<u>130</u>
B_ 2.7	376 to 395	75+ 79 %		Total points	500
C+ 2.3	351 to 375	70+ 75 %			
C 2.0	326 to 350	65+ to 70 %			
D+ 1.3	306 to 325	61+ to 65 %			
D 1.0	296 to 305	59+ to 61 %			
D_ 0.7	276 to 295	55+ 59 %			
F 0.0	0 to 275	0 to 55 %			

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Instructor: H. K. Shah

Week # Month	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
1 June	27 2.1,2.2	28 2.3	29 2.4	30 2.5	July 1	2	3 HW-1
2	4 Holiday	5 2.6. Q-1 HW-2	6 2.7, 2.8	7 Review, HW-3 Test -1	8	9	10
3 July	11 3.1, 3.2	12 3.3, 3.4	13 3.5, 3.6	14 Quiz-2, HW-4 3.8	15	16	17
4	18 3.9,3.10	19 Review, HW-5 Test - 2	20 4.1, 4.2	21 4.3, 4.4	22	23	24
5	25 4.5.Quiz-3, HW-6	26 4.6, 4.7	27 4.8, 4.9	28 10.1, 10.2	29	30	31
6	August 1 HW-7. HW-8 Review Test -3	2 Final exam Review	3 Final exam Review	4 Final exam 12:30 to 2:45 pm	5	6	7

HW/Quiz/Test # ⇒	1	2	3	4	5	6	7	8
Homework assignment Sections/Chapters	Chapter 1	2.1 to 2.5	2.6 to 2.8	3.1 to 3.6	3.8 to 3.10	4.1 to 4.4	4.5 to 4.9	10.1, 10.2
Sections to be covered For Quiz	2.1 to 2.5	3.1 to 3.6	4.1 to 4.4	-----	-----	-----	-----	-----
Chapters/sections to be Covered for Test	Chapter 2	Chapter 3	Chapter 4	-----	-----	-----	-----	-----

All the exams are show your work type exams, close book/notebook in the class during Zoom meetings.

Final exam is comprehensive covers all the chapters 2 to 4.

Student Learning Outcome(s):

*Analyze and synthesize the concepts of limits, continuity, and differentiation from a graphical, numerical, analytical and verbal approach, using correct notation and mathematical precision.

*Evaluate the behavior of graphs in the context of limits, continuity and differentiability.

*Recognize, diagnose, and decide on the appropriate method for solving applied real world problems in optimization, related rates and numerical approximation.

Office Hours: