

Instructor:	Lin Zhang Email: zhanglinlin@fhda.edu Canvas: https://deanza.instructure.com/
Text:	Calculus Volume 2 and Calculus Volume 3 (Openstax) Please follow the link and download BOTH PDF files to your computer. MyOpenMath is a free homework platform embedded in Canvas.
Equipment:	Graphing Calculator is recommended (TI 83plus , ...) During lesson, you can use your phone: TI Emulator Apps For iPhone: GraphNCalc83 (free with ads) For Android: Graphing Calculator plus 84 83 (\$2.99)
Office Hours:	https://fhda-edu.zoom.us/j/81218984965 Meeting ID 812 1898 4965

1. Prerequisite:

Prerequisite: Mathematics 1B or equivalent (with a grade of C or better); or a satisfactory score on the College Level Math Placement Test within the last calendar year.

2. Course Description:

Students in this course will learn about infinite series, lines, and planes in three dimensions, vectors in two and three dimensions, parametric equations of curves, derivatives, and integrals of vector functions.

3. Student Learning Outcomes:

- 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.

3. Drop Policy:

Attendance is integral to your success in this course. I expect you to attend all class meetings. **It is always YOUR RESPONSIBILITY to drop** the class if you feel like you can't continue for any reason.

4. Tutoring

The Math, Science, and Technology Resource Center (**S43**) provides free online tutoring **Monday – Thursday 10AM – 5PM**. For more information, go to www.deanza.edu/studentsuccess/mstrc You can also use “**NetTutor**” link on the navigation in Canvas or attend my office hour. Email me for appointments if you want to meet at alternative time.

5. Academic Integrity:

All tests are allowed some notes, but your work must reflect what you know based on your own knowledge and thought. Referencing or copying another student's solutions, or searching answer online during tests are considered cheating. Violation of this policy will result in the student receiving ZERO credit for the entire assignment or test. Further action may be taken depending on the circumstance.

6. Support Services

Students with disabilities needing reasonable accommodations should inform me in the beginning of the quarter. To begin the reasonable accommodations process, I will need to fill out a request form from the Disabilities Support Services (DSS). For more information, please visit the DSS office at SCSB 141, call (408) 864-8753 /(408) 864-8748 TTY, or go to www.deanza.edu/dss.

7. Grade:

All grades will be posted on Canvas as soon as they become available. It is your responsibilities to check Canvas at least once a week to monitor your grades for the class.

In Class (drop 2)	20%	A: 90-100%
Homeworks (drop 1)	20%	B: 80-89%
3 midterms	45%	C: 70-79%
<u>Final Exam</u>	<u>15%</u>	D: 60–69%
Total	100%	F: 0-59%

In Class Participation

Canvas Modules are organized by weeks. You are assigned certain sections each week. I encourage you to read the textbook on those sections; then watch my lesson videos. Even if the class is asynchronous, you should keep a schedule for yourself (like one hour each day) so you can keep up with the pacing of the class.

There will be problems assigned during the lesson videos. You need to complete those problems and post your answers to the corresponding discussion board. You will be graded by effort, not by correctness.

You may also ask questions that you may have on the discussion board, and response to other students’ questions when possible. two lowest scores will be dropped for overall grade calculation at the end of the term.

Homework:

Homework assignments are assigned from **textbook** or MyOpenMath test bank. You need to submit your answers to **MyOpenMath** (embedded in **Canvas**). Even I am not collecting work, you are supposed to work out the problems on your own paper.

Late Work Policy

Each student are given **6 late passes (5-day extension each)** this quarter. After a homework assignment is due, you should see a “late pass” button in the description of the assignment. If an assignment is due on 1/12, using one late pass will extend the due date to 1/17. After using all your late passes, you can complete an assignment in “**Practice**” mode, and there is a **20% penalty** when I record your grade later.

Midterms and Final

Three midterms and **one final exam** will be held on dates indicated in the class calendar. Every test counts. You CAN’T drop any. I will announce more details later on Canvas.

8. Class Calendar

Week	Topics	Notes
1 6/30 – 7/6	5.1 Sequences 5.2 Infinite Series 5.3 The Divergence and Integral Tests 5.4 Comparison Tests 5.5 Alternating Series	
2 7/7 – 7/13	5.6 Ratio and Root Tests 6.1 Power Series and Functions 6.2 Properties and Power Series Test 1 (5.1 – 5.6) Friday-Saturday	Monday, July 7th last day to add or drop with no record.
3 7/14 – 7/20	6.3 Taylor and Maclaurin Series 6.4 Talyor Series 7.3 Polar Coordinates 7.4 Area and Arc Length in Polar Coordinates	
4 7/21 – 7/27	2.1 Vectors in the Plane 2.2 Vectors in Three Dimensions Test 2 (6.1 – 6.4, 7.3, 7.4) Wednesday-Thursday 2.3 The Dot Product 2.4 The Cross Product	
5 7/28 – 8/3	2.5 Equations of Lines and Planes in Space 2.6 Quadric Surfaces 2.7 Cylindrical and Spherical Coordinates 3.1 Vector-Valued Functions and Space Curves	Wednesday July 30th last day to withdraw
6 8/4 – 8/10	3.2 Calculus of Vector-Valued Functions 3.3 Arc Length and Curvature Test 3 (2.1 – 2.7) Wednesday-Thursday 3.4 Motion in Space Final Exam Saturday-Sunday	

Student Learning Outcome(s):

- Analyze infinite sequences and series from the perspective of convergence, using correct notation and mathematical precision.
- Apply infinite sequences and series in approximating functions.
- Synthesize and apply vectors, polar coordinate system and parametric representations in solving problems in analytic geometry, including motion in space.

Office Hours:

M,W 2:00 PM - 2:30 PM

Zoom

M,W 2:30 PM - 3:00 PM

Zoom