

Instructor:	Lin Zhang <p style="text-align: right;">Email: zhanglinlin@fhda.edu Canvas: https://deanza.instructure.com/</p>
Text:	Calculus Volume 2 (Openstax) Please follow the link and download the PDF file 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:	G1 MW 12:45 – 1:30PM & 6:15 – 6:30PM or email me for appointments

1. Prerequisite:

Prerequisite: Mathematics 1A 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 Objective:

- Analyze and explore aspects of the integral calculus.
- Analyze and evaluate the definite integral as a limit of a Riemann sum and examine its properties.
- Examine the Fundamental Theorem of Calculus.
- Find definite, indefinite, and improper integrals using various techniques.
- Apply the definite integral to applications.
- Examine differential equations.

3. Student Learning Outcomes:

- Analyze the definite integral from a graphical, numerical, analytical, and verbal approach, using correct notation and mathematical precision.
- Formulate and use the Fundamental Theorem of Calculus.
- Apply the definite integral in solving problems in analytical geometry and the sciences.

3. 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.

4. Tutoring

The Math, Science, and Technology Resource Center (**S43**) provides free online and in-person tutoring **Monday – Thursday 9AM – 6PM and Friday 9AM – 12PM**. For more information, go to www.deanza.edu/studentssuccess/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:

Copying another student's solutions, or using unauthorized materials (online search engine or solution manual) during tests are considered cheating. Violation of this policy will result in the student receiving ZERO credit for the entire assignment or test.

6. 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.

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)	10%	A: 90-100%
Homeworks (drop 1)	16%	B: 80-89%
7 Quizzes (drop 1)	10%	C: 70-79%
2 Exams	44%	D: 60–69%
<u>Final Exam</u>	<u>20%</u>	F: 0-59%
Total	100%	

In Class Participation

Each lesson has in-class practice near the end. You will complete the handout and turn them in. Keep in mind that your problems are very similar to the ones I do, but adapted with different numbers. In the events of absence, you will receive zero for the in-class. Two lowest scores will be dropped for overall grade calculation at the end of the term.

Quizzes

Several weekly Quizzes are given in the classroom on quiz days. Quiz problems are similar to homework problems and lecture examples. All quizzes are open notes

Homework:

Homework assignments are assigned on 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

Two midterms and **one final exam** will be given with opportunities of test corrections. Test correction opportunities will be available for midterms, not the final. Every test counts. You CAN'T drop any. More details of test correction will be explained after Test 1.

8. Class Calendar

Week	Monday	Wednesday	Notes
1	1/6 1.1 Riemann sum	1/8 1.2 Definition of Integral	
2	1/13 Quiz 1 1.3 Fundamental Theorem of Calculus	1/15 1.4 Net Integrals 1.5 Integration by Substitution	Sun. Jan. 19th last day to add or drop with no record.
3	1/20 No Class MLK Holiday	1/22 Quiz 2 1.5 Substitution 2.1 Area Between	
4	1/27 2.2 volume by Revolution	1/29 Quiz 3 2.3 Volume by Cylindrical Shell	
5	2/3 3.1 Integration by Parts	2/5 Test 1 1.1 – 1.5, 2.1-2.3	
6	2/10 3.2 Trig Integrals	2/12 Quiz 4 3.3 Trig Substitution	
7	2/17 3.4 Partial Fractions	2/19 Quiz 5 3.5 Integration Formulas 3.6 Approximation of Integrals	
8	2/24 No Class Veterans Day	2/26 3.7 Improper Integrals 2.4 Arc Length	Friday, Feb. 28th: last day to drop with a “W”.
9	3/3 2.4 Surface Area 2.6 Center of Mass	3/5 Quiz 6 2.5 Work Done	
10	3/10 4.1 Differential Equation	3/12 Test 2 2.4, 2.6, 3.1 – 3.7	
11	3/17 4.2 Direction Field 4.3 Separable Differential Eq	3/19 Quiz 7 Calculus of Parametric Curves	
12	3/24 No Class	3/26 Final Exam 4:00 – 6:00 PM	

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- Formulate and use the Fundamental Theorem of Calculus.
- Apply the definite integral in solving problems in analytical geometry and the sciences.

Office Hours:

M,W	06:15 PM	06:45 PM	In-Person	G1
M,W	12:45 PM	01:30 PM	In-Person	G1