

Instructor:	Linlin Zhang Email: zhanglinlin@fhda.edu Canvas: https://deanza.instructure.com/
Text:	Calculus Volume 2 (Openstax)
Equipment:	<p>Scientific Calculator is sufficient, but Graphing Calculator will work too.</p> <p>During lesson, you can use your phone:</p> <p>TI Emulator Apps For iPhone: GraphNCalc83 (free with ads) For Android: Graphing Calculator plus 84 83 (\$2.99)</p>
Office Hours:	MLC 109 or Zoom MW 3:00 – 3:55PM

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. 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 can't continue for any reason.

4. 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.

5. 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/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.

6. 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.

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%
- Homeworks (drop 1) 15%
- 5 Quizzes (drop 1) 10%
- 3 Exams 45%
- Final Exam 20%

In Class Participation

Each lesson has in-class practice through the lessons. You will complete the assigned problems and turn them in. In-Class assignments are graded on completion and effort. In the events of absence, you will receive zero. Two lowest scores will be dropped for overall grade calculation.

Quizzes

Several weekly Quizzes are given near the end of class on selected Wednesday. All quizzes are open notes. If you use digital devices to take notes, please copy them or print them on paper.

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 (7-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 given. Every test counts. You CAN'T drop any, but you can use the average of the two higher mid-terms and the final exam to replace the lowest mid-term.

- No make up of mid-terms if you miss it. NO make up tests, if you miss a mid-term, you will get a zero, but you can replace it with the average of the final exam and the other two mid-terms at the end of the quarter.
- On the day of the mid-term exam, we will still have lesson for the first 45 minutes. Then actual test starts at 4:55PM and ends at 6:15PM. Students are given 1 hour and 20 minutes to complete the test. NO bathroom break during the test.
- No make up for the Final Exam. If you miss the final, you will get a zero, and you can't replace it by mid-term scores.

8. Class Calendar

Week	Monday	Wednesday	Notes
1	4/6 1.1 Riemann sum	4/8 1.2 Definition of Integral	
2	4/13 Quiz 1 1.2 Definition of Integral	4/15 1.3 Fund. Thm of Calculus 1.4 Net Integrals	Sun. Apr. 19th last day to add or drop
3	4/20 Quiz 2 1.5 Intgrt by Substitution	4/22 2.1 Area Between	
4	4/27 2.2 volume by Revolution	4/29 Test 1 2.3 volume by Cyli. Shell	Test 1 1.1 – 1.5
5	5/4 3.1 Integration by Parts	5/6 3.2 Trig Integrals	
6	5/11 Quiz 3 3.3 Trig Substitution	5/13 3.3 Trig Substitution	
7	5/18 Quiz 4 3.4 Partial Fractions	5/20 3.4 Partial Fractions	Test 2 2.1 – 2.3, 3.1 – 3.4
8	5/25 Memorial Day No Class	5/27 Test 2 3.5 Integration Formulas 3.6 Appr. of Integrals	Friday, May. 29th: last day to drop with a “W”.
9	6/1 3.6 Appr. of Integrals 3.7 Improper Integrals	6/3 2.7 Intgr of Exp. And Log 2.4 Arc Length	
10	6/8 Quiz 5 2.5 Work Done	6/10 2.4 Surface Area 4.1 Differential Equation	Test 3 3.1 – 3.7, 2.7, 2.4 – 2.5
11	6/15 Test 3 4.3 Separable Differential Eq	6/17 7.1/7.2 Calculus of Parametric Curves	
12	6/22	6/24 Final Exam 4:00 – 6:00 PM	

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Office Hours:

M 3:00 PM - 3:55 PM
W 3:00 PM - 4:00 PM

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