Instructor:	Lin Zhang	**Email**: zhanglinlin@fhda.edu **Canvas:** https://deanza.instructure.com/
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:	**E37 MW 1:00 – 1:30PM 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/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:

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%
Final Exam	20%	**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

Six Quizzes are proctored quizzes and will be given in the classroom on quiz days. Quiz problems are similar to homework problems and lecture examples.

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

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.

8. **Class Calendar**

Week	Monday	Wednesday	Notes
1	9/23 1.1 Riemann sum	9/25 1.2 Definition of Integral	
2	9/30 **Quiz 1** 1.3 Fundamental Theorem of Calculus	10/2 1.4 Net Integrals 1.5 Integration by Substituion	**Sun. Oct. 6**[th] last day to add or drop with no record.
3	10/7 **Quiz 2** 1.5 Substitution 2.1 Area Between	10/9 2.2 volume by Revolution	
4	10/14 **Quiz 3** 2.3 Volume by Cylindrical Shell	10/16 3.1 Integration by Parts	
5	10/21 3.2 Trig Integrals review	10/23 ==Test 1== 1.1 – 1.5, 2.1-2.3	
6	10/28 3.3 Trig Substitution	10/30 **Quiz 4** 3.4 Partial Fractions 3.5 Integration Formulas	
7	11/4 3.6 Approximation of Integrals 3.7 Improper Integrals	11/6 **Quiz 5** 2.4 Arc Length	
8	11/**11** **No Class** Veterans Day	11/13 2.4 Surface Area 2.6 Center of Mass	**Friday, Nov. 15**[th]**:** last day to drop with a "W".
9	11/18 2.5 Work Done	11/20 **Quiz 6** 2.8 Exponential Model 4.1 Differential Equation	
10	11/25 4.2 Direction Field 4.3 Separable Differential Eq	11/27 ==Test 2== 2.4, 2.6, 3.1 – 3.7	**Thanksgiving Holiday** Thursday Nov. 28 – Sunday Dec. 1
11	12/2 2.9 Hyperbolic Functions Calculus of Parametric Curves	12/4 **Quiz 7** Calculus of Parametric Curves	
12	12/9 ==Final Exam== **1:45 – 3:45 PM**	12/11 No Class	

Student Learning Outcome(s):

• 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.

Office Hours:

M,W	06:15 PM	06:45 PM	In-Person	S45
M,W	01:00 PM	01:30 PM	In-Person	E37