INTRODUCTION:

Welcome to calculus Math 1B. I am Millia Ison. I have been teaching at DeAnza College for over 30 years. I plan to work with you closely to help you to succeed. In this course, you will use of your algebra, pre-calculus skills and your knowledge in Math 1A differentiation to learn integration and solve interesting application problems.

You will need to spend **at least 25 hours a week** to study the material, do homework and quizzes. Details of learning the course material are in the weekly plan in Modules. Grade scales, important deadlines and information are on the class syllabus. Please read carefully.

Homework assignments, quizzes and exams are on WebAssign. About $60 to purchase the access online. In Modules, under "Course Overview and Toolkit", the first time you click "WebAssign Sign in", you will be directed to sign up and purchase. If you purchased your textbook for Math 1A at DeAnza, you had a multi-term code that works for Math 1B, 1C, and 1D. Any purchase problem, lockdown browser or other technical issues, please contact WebAssign directly:

Online: support.cengage.com (Links to an external site.)
Call: 800.354.9706

Homework: You have 5 submissions to get the correct answer for a question to earn a point. It is very important for you to understand the concepts when you do problems. You need to practice until you can do a problem without a sample example, notes or hint. Refer class syllabus for due day.

Quizzes: You have quiz twice a week in general. I list section number as quiz name on WebAssign. For example, Quiz 5.2 means this quiz covers section 5.2 in the text. The last 30 minutes of each class is quiz. **NO EXTENSION.**

Exams and Final: Reviews for each exam will be provided on WebAssign about one weeks before the exam for you to prepare. Exam Review are optional. Points earned will not count towards your grade. Doing the Exam Reviews will help you to do better on the exams. Exams and Final are to test your understanding of the course material. Questions on exams are similar to the questions on the reviews.

Need Help?
1. Tutoring is available both on-campus and online. See http://deanza.edu/studentsuccess/mstrc/
2. Post questions in the Discussion section in Canvas
3. Email me at isonmillia@deanza.edu
4. Form a study group with other students in the class
5. Follow the "NetTutor" on the navigation in Canvas

Student Learning Outcome 1: Analyze the definite integral from a graphical, numerical, analytical, and verbal approach, using correct notation and mathematical precision.
Student Learning Outcome 2: Formulate and use the Fundamental Theorem of Calculus.
Student Learning Outcome 3: Apply the definite integral in solving problems in analytical geometry and the sciences.

Students with disability-related need for academic accommodations or services, please contact Disability Support Services (DSS) 408 864 8753 or Educational Diagnostic Center (EDC) 408 864 8839. The Center will inform me your situation. You may take exams at EDC, but you must schedule with EDC Wednesday or Thursday of the official exam week. You need to schedule one week ahead the exam day.

COURSE: Math 1B-27Z, CRN 01232 **QUARTER:** Winter 2023
DAY: TuTh 4:00 – 6:15 p **INSTRUCTOR**: Millia Ison
ONLINE ZOOM MEETING: https://fhda-edu.zoom.us/j/82108178680
ZOOM OFFICE HOUR: MW 10:00 -11:40 am. Link: https://fhda-edu.zoom.us/j/95244405559
EMAIL: **isonmillia@fhda.edu**

COURSE PREREQUISITES: Math 1A, or equivalent course with a grade "C" or better.
TEXT: Calculus: Early Transcendentals, by James Stewart, 9th edition.

ENROLL WEB ASSIGN: Log into your Canvas account, In Module, Click WebAssign Sign in to continue the registration process. Your Cengage course materials will open in a new tab or window, so be sure pop-ups are enabled. Homework, quizzes, and exams are on Web Assign.

EQUIPMENT: A graphic calculator or a computer with graph capability is required.
GRADING:

Homework ----160 points	A: 93% - 96 % , 465 - 500 pts	C+: 76% - 79 % , 380 - 399 pts
Quizzes ----------80 points	A–: 90% - 92 % , 450 - 464 pts	C: 70 % - 75 %, 350 - 379 pts
3 midterms --- 150 points	B+: 87% - 89 % , 435 - 449 pts	D: 60 % - 69 %, 300 - 349 pts
Final exam ---- 110 points	B: 83% - 86 % , 415 - 434 pts	F: 0 % - 59 %, 0 - 299 pts
Total ---------- 500 points	B –: 80% - 82 % , 400 - 414 pts	

HOMEWORK POINTS: You need to do your homework on a regular basis. However, all homework is due on Tue. March 28, 11:59 pm. **No Extension under any circumstances.** A total point on WebAssign is 703 (subject to change). Out which, 683 points are required (subject to change). If you have 683, you earn 160 points (full credit) toward your grade. If you have total of 703, then $703/683 \approx 1.03$, that is 103%, $103\% \times 160 \approx 164$ which is 4 points extra credit. The total amount of the extra credit will be decided after the final exam.

QUIZ POINTS: 5 points each. 5:45 – 6:15 pm each meeting. **NO EXTENSION**. Absent will be counted as 0. There are 19 quizzes this quarter. 3 lowest scores will be dropped.

EXAM POINTS: 50 points each. **No make-up midterm exams.** Dates are listed on the next page. 0 point for missed exam. For unusual circumstances, you must contact me on or before the exam time, then the percentage of your final exam score multiply by 50 will replace the exam score. See Calendar next page for exam dates.

FINAL EXAM: 110 points. March 30, Thursday, 4 – 6 p. Fail to take the final exam, you will receive "F" for your grade.

Exams and quizzes are to test your understanding of the course material and homework assignments. **Cheating of any form on quizzes, midterm exams or final exam will be grounds for disciplinary action.**

IMPORTANT DATES: Sunday, Jan. 22 --- Last day to drop without grade on your record.
Friday, Mar. 3 --- Last day to drop with a "W".

Student is responsible to withdraw from the class. The last day for you to withdraw is Mar. 3. After that day, you will receive a grade.

Text: Stewart 9th edition **MATH 1B-27Z Winter 2023 Calendar** **TuTh 4 – 6:15 pm online Zoom**

Chapter	SEC	Topics		Monday	Tuesday	Wednesday	Thursday	Friday
Integrals	5.1 5.2 5.3 5.4 5.5	Areas and Distances The Definite Integral The Fundamental Theorem of Calculus Indefinite Integrals & the Net Change Thm The Substitution Rule	Jan Wk1	9	10 5.1, 5.2 Quiz 5.2	11	12 5.3 Quiz 5.3	13
			Jan Wk2	16	17 5.4, 5.5, Quiz 5.5	18	19 6.1 Quiz 6.1	20
Appendix G Applications of Integrals	6.1 6.2 6.3 6.4 6.5	Areas Between Curves Volumes Volume by Cylindrical Shells Work Average Value of a Function	Jan Wk3	23 MLKing's day Holiday	24 Review Exam 1 5 – 6 p	25	26 6.2 Quiz 6.2	27
			Jan Feb Wk4	30	31 6.3, 6.4 Quiz 6.3	1	2 6.4, 6.5 Quiz 6.4	3
Techniques of Integration	7.1 7.2 7.3 7.4 7.5 7.7 7.8	Integration by Parts Trigonometric Integrals Trigonometric Substitution Integration of Rat'l Funct'ns by Partial Fractions Strategy for Integration Approximate Integration Improper Integrals	Jan Wk5	6	7 7.1 Quiz 7.1	8	9 7.2 Quiz 7.2	10
			Feb Wk6	13	14 Review Exam 2 5 – 6 p	15	16 7.3 Quiz 7.3	17 Lincoln's Bday Holiday
			Feb Wk7	20 Washington's Bday Holiday	21 7.4 Quiz 7.4	22	23 7.5, 7.7 Quiz 7.5, 7.7	24
Further Applications	8.1 10.2 8.2 8.3 8.5	Are Length Parametric arclength / Area Area of a Surface of Revolution Applications to Physics and Engineering Probability	Feb Mar Wk8	27	28 7.8 Quiz 7.8	1	2 8.1,10.2 Quiz 8.1,10.2	3 last day to drop w/W
			Feb Wk9	6	7 8.2 Quiz 8.2	8	9 8.3 Quiz 8.3	10
Differential Equations	9.1 9.2 9.3	Modeling with Differential Equations Direction Fields and Euler's Method Separable Equations and Apps	Mar Wk10	13	14 Review Exam 3 5 – 6 p	15	16 8.5 Quiz 8.5	17
All homework assignments and due dates are listed on WebAssign. These are the least number of exercises you need to do. If you don't master the material well after doing WebAssign, work with more of the similar problems in the text.			Mar Wk11	20	21 9.1, 9.2 Quiz 9.1, 9.2	22	23 9.3 Quiz 9.3	24
			Mar Wk12	27	28 HW Due: 11:59p	29	30 Final 4 - 6 pm	31

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	10:00 AM	11:40 AM	Zoom