COURSE: Math 1B-67Z, CRN 35858 **QUARTER:** Winter 2021
DAY: online **INSTRUCTOR**: Millia Ison
Exam Time: Tuesdays 6:00 – 7:30 p **Final Exam:** Tue. 3/23 6:00 – 8:00 p
EMAIL: **isonmillia@fhda.edu** ~~**OFFICE NUMBER:** S76e~~
OFFICE HOUR : MWTuTh, 12:00 -1:00 pm online.
COURSE PREREQUISITES: Math 1A, or equivalent course with a grade "C" or better.

TEXT: Calculus: Early Transcendentals, by James Stewart, 8th edition.
ENROLL WEB ASSIGN : Class key: **deanza 8722 7488** Homework, quizzes and exams are on Web Assign. Special price $60 at http://services.cengagebrain.com/course/site.html?id=4922575

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
2 Exam Reviews--60 points	B+: 87% - 89 % , 435 - 449 pts	D: 60 % - 69 %, 300 - 349 pts
2 midterms --- 100 points	B: 83% - 86 % , 415 - 434 pts	F: 0 % - 59 %, 0 - 299 pts
Final exam ---- 100 points	B–: 80% - 82 % , 400 - 414 pts	
Total ---------- 500 points		

HOMEWORK POINTS: You need to do your homework on a regular basis. However, all homework is due on March 23, 11:59 pm. **No Extension under any circumstances.** A total point on WebAssign is 675(subject to change). Out which, 655 points are required (subject to change). If you have 655, you earn 160 points (full credit) toward your grade. If you have total of 675, then $675/655 \approx 1.03$, that is 103%, , $103\% \times 160 \approx 165$ which is 5 points extra credit. The total amount of the extra credit will be decided after the final exam.

QUIZ POINTS: 5 points each. 2 quizzes each week (1 quiz if a week has exam), due Sundays 11:59 pm, available 1 week before due. **NO EXTENSION under any circumstances**. If the deadline is missed, you get 0 for the quiz. There are 18 quizzes this quarter. 2 lowest scores will be dropped.

EXAM REVIEW POINTS: 30 points each. Due 11:59 pm on the Exam day.

EXAM POINTS: 50 points each. **No make-up midterm exams.** 0 point for missed exam. For unusual circumstances, the percentage of your final exam score multiply by 50 will replace the exam score. Exam 1: 1/26, Tuesday, 6:00 – 7:30p; Exam 2: 3/9, Tuesday, 6:00 – 7:30 p.

FINAL EXAM: 100 points. March 23, Tuesday, 6:00 – 8:00 p.
Doing Final Exam Review is optional. 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. 17 --- Last day to drop without grade on your record.
Friday, Feb. 26 --- Last day to drop with a "W".
Student is responsible to withdraw from the class. The last day for you to withdraw is Nov. 13**.** After that day, you will receive a grade.

Text: Stewart 8th edition **MATH 1B-67Z Winter 2021 Calendar** **Online**

Chapter	SEC	Topics		Monday	Tuesday	Wednesday	Thursday	Friday
Integrals	5.1	Areas and Distances	Jan	4	5	6	7	8
	5.2	The Definite Integral		Follow canvas week 1 module to learn 5.1, 5.2 and 5.3. Do homework of these sections and complete Quiz 5.2 and Quiz 5.3				
	5.3	The Fundamental Theorem of Calculus	Wk1					
	5.4	Indefinite Integrals and the Net Change Thm	Jan	11	12	13	14	15
	5.5	The Substitution Rule		Follow canvas week 2 module to learn 5.4, 5.5 and 6.1. Do homework of these sections and complete Quiz 5.5 and Quiz 6.1				
			Wk2					
Appendix G Applications of Integrals	6.1	Areas Between Curves	Jan	18	19	20	21	22
	6.2	Volumes		MLKing's Birthday	Follow canvas week 3 module to learn 6.2 and 6.3. Do homework of these sections and complete Quiz 6.2 and Quiz 6.3			
	6.3	Volume by Cylindrical Shells	Wk3					
	6.4	Work	Jan	25	26	27	28	29
	6.5	Average Value of a Function		Study Exam 1 Rv	Exam 1 6:00 –7:30 p Exam 1 Rv Due 11:59p	Follow week 4 module to learn 6.4, do homework, and complete Quiz 6.4		
			Wk4					
Techniques of Integration	7.1	Integration by Parts	Feb	1	2	3	4	5
	7.2	Trigonometric Integrals		Follow canvas week 5 module to learn 6.5, 7.1 and 7.2, do homework, and complete Quiz 7.1 and Quiz 7.2				
	7.3	Trigonometric Substitution	Wk5					
	7.4	Integration of Rat'l Funct'ns by Partial Fractions	Feb	8	9	10	11	12
	7.5	Strategy for Integration		Follow canvas week 6 module to learn 7.3 and 7.4, do homework and complete Quiz 7.3.				Lincoln Birthday
	7.7	Approximate Integration	Wk6					
	7.8	Improper Integrals	Feb	15	16	17	18	19
				Washington Birthday	Complete Quiz 7.4. Follow canvas week 7 module to learn 7.5, 7.7 Complete Quiz 7.5, 7.7			
			Wk7					
Further Applications	8.1	Are Length	Feb	22	23	24	25	26
	10.2	Parametric arclength		Follow canvas week 8 module to learn 7.8, 8.1 and 10.2, do homework				
	8.2	Area of a Surface of Revolution		Complete Quiz 7.8 and Quiz 8.1, 10.2				last day to drop w/W
	8.3	Applications to Physics and Engineering	Wk8					
	8.5	Probability	Mar	1	2	3	4	5
Differential Equations	9.1	Modeling with Differential Equations		Follow canvas week 9 module to learn 8.2 and 8.3, do homework. Complete Quiz 8.2 and Quiz 8.3				
	9.2	Direction Fields and Euler's Method	Wk9					
	9.3	Separable Equations	Mar	8	9	10	11	12
				Study Exam 2 Rv.	Exam 2 6:00 –7:30 p Exam 2 Rv Due 11:59p	Follow week 10 module to learn 8.5, do homework, Complete Quiz 8.5		
			Wk10					
			Mar	15	16	17	18	19
				Follow canvas week 11 module to learn 9.1, 9.2 and 9.3, do homework. Complete Quiz 9.1, 9.2 and Quiz 9.3				
			Wk11					
			Mar	22	23	24	25	26
					Final 6 – 8 pm **HW due 11:59 p**			
			Wk12					

All homework assignments and due dates are listed on WebAssign.

These are the least amount 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.

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.