COURSE: Math 1B-09, CRN 26000 **QUARTER:** Fall 2020
DAY: online **INSTRUCTOR**: Millia Ison
Exam Time: Tuesdays 4:00 – 5:30 p **Final Exam:** Tue. 12/8, 4:00 – 6:00 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 code: **deanza 3773 8985**
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
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 Dec. 8, 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 17 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: Oct. 13, Tuesday, 4:00 – 5:30 p; Exam 2: Nov. 24, Tuesday, 4:00 – 5:30 p

FINAL EXAM: 100 points Tuesday December 8, 4:00 – 6:00 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, Oct. 4 --- Last day to drop without grade on your record.
Friday, Nov. 13 --- 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-010 Fall 2020 Calendar** **Online**

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

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.