COURSE: Math 1B-27Z, CRN 01232   **QUARTER:**   Winter 2022
DAY: TuTh 4:00 – 6:15 p   **INSTRUCTOR**:   Millia Ison
Zoom Join URL: https://fhda-edu.zoom.us/j/97994261238 **EMAIL:** isonmillia@fhda.edu
OFFICE HOUR on Zoom: Mon - Thu. 3-3:50 pm
Here is the link: Join URL: https://fhda-edu.zoom.us/j/94279799616 Meeting ID: 942 7979 9616
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: 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 Tue. March 22, 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. 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 POINTS: 50 points each. **No make-up midterm exams.** 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 24, 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: Monday, Jan. 17 --- Last day to drop without grade on your record.
                              Friday, Feb. 25 --- Last day to drop with a "W".

Student is responsible to withdraw from the class. The last day for you to withdraw is Feb. 25**.** After that day, you will receive a grade.

Text: Stewart 8th edition   **MATH 1B-10Z Fall 2021Calendar**   **TuTh 4 – 6:15 pm online**

Chapter	SEC	Topics		Monday	Tuesday	Wednesday	Thursday	Friday
Integrals	5.1	Areas and Distances	**Jan**	3	4	5	6	7
	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	**Jan**	10	11	12	13	14
	5.5	The Substitution Rule			5.4, 5.5,		6.1	
			Wk2		Quiz 5.5		Quiz 6.1	
Appendix G Applications of Integrals	6.1	Areas Between Curves	**Jan**	17	18	19	20	21
	6.2	Volumes		MLKing's day	Review		6.2	
	6.3	Volume by Cylindrical Shells	Wk3	Holiday	Exam 1 5 – 6 p		Quiz 6.2	
	6.4	Work	**Jan**	24	25	26	27	28
	6.5	Average Value of a Function			6.3, 6.4		6.4, 6.5	
			Wk4		Quiz 6.3		Quiz 6.4	
Techniques of Integration	7.1	Integration by Parts	**Jan**	31	1	2	3	4
	7.2	Trigonometric Integrals	**Feb**		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	**Feb**	7	8	9	10	11
	7.5	Strategy for Integration			Review		7.3	
	7.7	Approximate Integration	Wk6		Exam 2 5 – 6 p		Quiz 7.3	
	7.8	Improper Integrals	**Feb**	14	15	16	17	18
					7.4		7.5, 7.7	Lincoln's Bday
Further Applications	8.1	Are Length	Wk7		Quiz 7.4		Quiz 7.5, 7.7	Holiday
	10.2	Parametric arclength / Area	**Feb**	21	22	23	24	25
	8.2	Area of a Surface of Revolution		Washington's Bday	7.8,		8.1,10.2	
	8.3	Applications to Physics and Engineering						
	8.5	Probability	Wk8	Holiday	Quiz 7.8		Quiz 8.1,10.2	last day to drop w/W
Differential Equations	9.1	Modeling with Differential Equations	**Feb**	28	1	2	3	4
	9.2	Direction Fields and Euler's Method	**Mar**		8.2		8.3	
			Wk9		Quiz 8.2		Quiz 8.3	
	9.3	Separable Equations and Apps	**Mar**	7	8	9	10	11
					Review		8.5	
			Wk10		Exam 3 5 – 6 p		Quiz 8.5	
		All homework assignments and due dates are listed on WebAssign.	**Mar**	14	15	16	17	18
					9.1, 9.2		9.3	
			Wk11		Quiz 9.1, 9.2		Quiz 9.3	
		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**	21	22	23	24	25
					HW due 11:59p		Final 4 - 6 pm	
			Wk12					

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.