COURSE: Math 1B-11Z, CRN 22588   **QUARTER:**   Fall 2021
DAY: Monday 6:30 – 8:45 p   **INSTRUCTOR**:   Millia Ison
Zoom URL: https://fhda-edu.zoom.us/j/91738177916   **EMAIL:**   isonmillia@fhda.edu

OFFICE HOUR on Zoom: Wed., Thu. 3-5 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:

Points	Grade range 1	Grade range 2
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 December 7, 11:59 pm. **No Extension under any circumstances.** A total point on WebAssign is 703 (subject to change). Out which, 693 points are required (subject to change). If you have 693, you earn 160 points (full credit) toward your grade. If you have total of 703, then $703/693 \approx 1.01$, that is 101%, $101\% \times 160 \approx 162$ which is 2 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. December 6, Monday, 6:15 – 8:15p. 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. 3 --- Last day to drop without grade on your record.
                          Friday, Nov. 12 --- Last day to drop with a "W".

Student is responsible to withdraw from the class. The last day for you to withdraw is Nov. 12**.** After that day, you will receive a grade.

Text: Stewart 8ᵗʰ edition **MATH 1B-11Z Fall 2021Calendar** **Monday 6:30 – 8:45 pm online**

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

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.