COURSE: Math 1C-55Z, CRN 37332 **QUARTER:** Winter 2023
DAY: TBA **INSTRUCTOR**: Millia Ison
ZOOM OFFICE HOUR: MW 10:00 -11:40 am. Link: https://fhda-edu.zoom.us/j/95244405559
EMAIL: **isonmillia@fhda.edu** **OFFICE NUMBER**: S76e

COURSE PREREQUISITES: Math 1B, 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 bases. However all homework is due on March 28, 11:59 pm. **No Extension under any circumstances.** Total points on WebAssign is 1136(subject to change). Out of which, 1100 points are required (subject to change). If you have 1100, you earn 160 points (full credit) toward your grade. If you have total of 1136, then $1136/1100 \gg 1.03$, 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, due Sundays 11:59 pm, available 6 days before due. You need to finish quizzes on or before Fridays. Consider weekends are the extension if you have issues to do quizzes during week days. **NO EXTENSION under any circumstances beyond the deadline on WebAssign**. If a deadline is missed, you get 0 for the quiz. There are 19 quizzes this quarter. 3 lowest scores will be dropped.

EXAM POINTS: 50 points each. **1/23, 2/21 and 3/13,** 6:30 – 7:30 pm. Dates are also listed on the calendar next page. **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.

FINAL EXAM: 110 points. Monday, March 27, 6:30 – 8:30 pm. Doing Final Exam Review is optional. Fail to take the final exam, you will receive "F" for your grade.

Exams are to test your understanding of the homework assignments. **Cheating of any form on 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 1C-55Z Winter 2023 Calendar** **CRN 37332** **Online**

Chapter	SEC	PROBLEMS
Parametric Equations AndPolar Coordinate	10.1	Curves Defined by Parametric Equations
	10.2	Calculus with Parametric Curves
	10.3	Polar Coordinates
	10.4	Areas and Lengths in Polar Coordinates
Infinite Sequencs And Series	11.1	Sequences
	11.2	Series
	11.3	The Integral Test and Estimates of Sums
	11.4	The Comparison Tests
	11.5	Alternating Series and Absolute Convergence
	11.6	The Ratio and Root Tests
	11.7	Strategy for Testing Series
	11.8	Power Series
	11.9	Representations of Functions as Power Series
	11.10	Taylor and MacLaurin Series
	11.11	Applications of Taylor Polynomials
Vector And The Geometry Of Space	12.1	Three−Dimensional Coordinate Systems
	12.2	Vectors
	12.3	The Dot Product
	12.4	The Cross Product
	12.5	Equations of Lines and Planes
	12.6	Cylinders and Quadric Surfaces
Vector Functions	13.1	Vector Functions and Space Curves
	13.2	Derivatives and Integrals of Vector Functions
	13.3	Arc Length and Curvature
	13.4	Motion in Space: Velocity and Acceleration

	Monday	Tuesday	Wednesday	Thursday	Friday
Jan Wk1	9	10	11	12	13
	Learn and do homework of 10.1, 10.2 and 10.3 Complete Quiz 10.2 & Quiz 10.3				
Jan Wk2	16 MLKing's Birthday	17	18	19	20
		Learn and do homework 10.4 & 11.1 Complete Quiz 10.4 & Quiz 11.1			
Jan Wk3	23 Exam 1 6:30 – 7:30p Sec.10.1 – 11.1	24	25	26	27
		Learn and do homework 11.2 Complete Quiz 11.2			
Jan Feb Wk4	30	31	1	2	3
	Learn and do homework 11.3, 11.4 & 11.5 Complete Quiz 11.3 & Quiz 11.4,5				
Feb Wk5	6	7	8	9	10
	Learn and do homework 11.6, 11.7, 11.8 &11.9 Complete Quiz11.6,7 & Quiz 11.8,9				
Feb Wk6	13	14	15	16	17 Lincoln's Birthday
	Learn and do homework 11.10 & 11.11 Complete Quiz 11.10				
Feb Wk7	20 Washington's Birthday	21 Exam 2 6:30 – 7:30p Sec. 11.2 – 11.11	22	23	24
			Learn and do homework 12.1 & 12.2 Complete Quiz 12.1, 2		
Feb Mar Wk8	27	28	1	2	3 last day to drop w/W
	Learn and do homework 12.3 & 12.4 Complete Quiz 12.3 & Quiz 12.4				
Mar Wk9	6	7	8	9	10
	Learn and do homework 12.5 & 12.6 Complete Quiz 12.5 & Quiz12.6				
Mar Wk10	13 Exam 3 6:30 – 7:30p Sec. 12.1 – 12.6	14	15	16	17
		Learn and do homework 13.1 & 13.2 Complete Quiz 13.1 & Quiz 13.2			
Mar Wk11	20	21	22	23	24
	Learn and do homework of 13.3 & 13.4 Complete Quiz 13.3 & Quiz 13.4				
Mar Wk12	27 Final 6:30 – 8:30p	28 **Homework** **Due 11:59 pm**	29	30	31

Student Learning Outcome(s):

*Graphically, analytically, numerically and verbally analyze infinite sequences and series from the perspective of convergence, using correct notation and mathematical precision.
*Apply infinite sequences and series in approximating functions.
*Synthesize and apply vectors, polar coordinate system and parametric representations in solving problems in analytic geometry, including motion in space.

Office Hours:

M,W	10:00 AM	11:40 AM	Zoom