

**COURSE:** Math 1C-65Z, CRN 30332

**QUARTER:** Winter 2022

**DAY:** Online. Asynchronous.

**INSTRUCTOR:** Millia Ison

**EMAIL:** [isonmillia@fhda.edu](mailto: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 1B, 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 and a computer are required.

**GRADING:**

Homework ----160 points  
Quizzes -----80 points  
3 midterms --- 150 points  
Final exam ---- 110 points  
Total ----- 500 points

A: 93% - 96 % , 465 - 500 pts
A- : 90% - 92 % , 450 - 464 pts
B+: 87% - 89 % , 435 - 449 pts
B: 83% - 86 % , 415 - 434 pts
B -: 80% - 82 % , 400 - 414 pts

C+: 76% - 79 % , 380 - 399 pts
C: 70 % - 75 % , 350 - 379 pts
D: 60 % - 69 % , 300 - 349 pts
F: 0 % - 59 % , 0 - 299 pts

**HOMEWORK POINTS:** You need to do your homework on a regular basis. However, **all homework is due on March 22, 11:59 pm.** **No Extension under any circumstances.** The total points on WebAssign are 1108(subject to change). Out of which, 1080 points are required (subject to change). If you have 1080, you earn 160 points (full credit) toward your grade. If you have total of 1112, then  $1112/1080 \approx 1.03$ , that is 102%,  $102\% \times 160 \approx 163$ , which is 3 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** generally, **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 19 quizzes this quarter. 3 lowest scores will be dropped.

**EXAM POINTS:** 50 points each. Dates listed on the calendar next page. **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.

**FINAL EXAM:** 110 points **Monday, March 21, 6:15 – 8:15 p.** 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 the 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.

Chapter	SEC	PROBLEMS		Monday	Tuesday	Wednesday	Thursday	Friday
Parametric Equations And Polar Coordinate	10.1	Curves Defined by Parametric Equations	Jan	3	4	5	6	7
	10.2	Calculus with Parametric Curves	Wk1	10.1,10.2,10.3				
	10.3	Polar Coordinates		Quiz 10.2 and Quiz 10.3 due Sunday 11:59 pm				
	10.4	Areas and Lengths in Polar Coordinates	Jan	10	11	12	13	14
Infinite Sequences And Series	11.1	Sequences	Wk2	10.4,11.1, Quiz 10.4 and Quiz 11.1 due Sunday 11:59 pm				
	11.2	Series	Jan	17	18	19	20	21
	11.3	The Integral Test and Estimates of Sums	Wk3	M.L.King's day Holiday	Exam 1: Sec.10.1 – 11.1 6-7p	11.2		
	11.4	The Comparison Tests		Quiz 11.2 due Sunday 11:59 pm				
	11.5	Alternating Series	Jan	24	25	26	27	28
	11.6	Absolute Convergence & the Ratio and Root Tests	Wk4	11.3,11.4,11.5				
	11.7	Strategy for Testing Series		Quiz 11.3 Quiz and 11.4,5 due Sunday 11:59 pm				
	11.8	Power Series	Jan	31	1	2	3	4
	11.9	Representations of Functions as Power Series	Wk5	11.6,11.7,11.8,11.9				
	11.10	Taylor and MacLaurin Series		Quiz11.6,7 and Quiz 11.8,9 due Sunday 11:59 pm				
	11.11	Applications of Taylor Polynomials	Feb	7	8	9	10	11
Vector And The geometry Of Space	12.1	Three-Dimensional Coordinate Systems	Wk6	Quiz11.10 and Quiz 12.1, 2 due Sunday 11:59 pm				
	12.2	Vectors	Feb	14	15	16	17	18
	12.3	The Dot Product	Wk7	Exam 2: Sec. 11.2 – 11.11 6-7p	12.3			Lincoln's Bday Holiday
	12.4	The Cross Product		Quiz 12.3 due Sunday 11:59 pm				
	12.5	Equations of Lines and Planes	Feb	21	22	23	24	25
	12.6	Cylinders and Quadric Surfaces	Wk8	Washington's Bday Holiday	12.4, 12.5, Quiz 12.4 and Quiz 12.5 due Sunday 11:59 pm			last day to drop w/W
Vector Functions	13.1	Vector Functions and Space Curves	Feb	28	1	2	3	4
	13.2	Derivatives and Integrals of Vector Functions	Wk9	12.6, 13.1, Quiz 12.6 and Quiz 13.1 due Sunday 11:59 pm				
	13.3	Motion in Space: Velocity and Acceleration		Mar	7	8	9	10
	13.4		Exam 3: Sec.12.1 – 12.6 6-7p	13.2				
All homework assignments and due dates are listed on WebAssign.  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			Wk10	Quiz13.2 due Sunday 11:59 pm				
			Mar	14	15	16	17	18
			Wk11	13.3, 13.4 Quiz 13.3 and Quiz 13.4 due Sunday 11:59 pm				
			Mar	21	22	23	24	25
			Wk12	Final: 6:15– 8:15p	HW Due 11:59 pm			



**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.