

COURSE: Math 1C-20, CRN 01238
DAY: TuTh 1:30 – 3:45 pm
ROOM: S44
ZOOM OFFICE HOUR: MW 10:00 -11:40 am. Link: <https://fhda-edu.zoom.us/j/95244405559>
EMAIL: isonmillia@fhda.edu

QUARTER: Winter 2023
INSTRUCTOR: Millia Ison
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 $1136/1100 \approx 1.03$, 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. 3:15 – 3:45 pm each meeting. **NO EXTENSION.** Absent will be counted as 0. There are 19 quizzes this quarter. 3 lowest scores will be dropped.

EXAM POINTS: 50 points each. **1/24, 2/21 and 3/14, Tuesdays.** 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. **Tuesday, March 28, 1:45 – 3:45 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.

Chapter	SEC	PROBLEMS		Monday	Tuesday	Wednesday	Thursday	Friday
Parametric Equations And Polar Coordinate	10.1	Curves Defined by Parametric Equations	Jan	9	10	11	12	13
	10.2	Calculus with Parametric Curves	Wk1		10.1, 10.2		10.3	
	10.3	Polar Coordinates			Quiz 10.2		Quiz 10.3	
	10.4	Areas and Lengths in Polar Coordinates	Jan	16	17	18	19	20
Infinite Sequences And Series	11.1	Sequences	Wk2	MLKing's Birthday	10.4		11.1	
	11.2	Series	Jan	23	24		26	
	11.3	The Integral Test and Estimates of Sums	Wk3		Exam 1 2:30 – 3:30p		11.2	
	11.4	The Comparison Tests			Sec.10.1 – 11.1		Quiz 11.2	
	11.5	Alternating Series and Absolute Convergence	Jan	30	31	1	2	3
	11.6	The Ratio and Root Tests	Feb	Wk4	11.3, 11.4		11.4, 11.5	
	11.7	Strategy for Testing Series	Quiz 11.3		Quiz 11.4,5			
	11.8	Power Series	Feb	6	7	8	9	10
	11.9	Representations of Functions as Power Series	Wk5		11.6, 11.7		11.8 & 11.9	
	11.10	Taylor and MacLaurin Series			Quiz 11.6,7		Quiz 11.8,9	
	11.11	Applications of Taylor Polynomials	Feb	13	14	15	16	17
Vector And The Geometry Of Space	12.1	Three-Dimensional Coordinate Systems	Wk6		11.10, 11.11		12.1, 12.2	Lincoln's Birthday
	12.2	Vectors	Feb		20		21	23
	12.3	The Dot Product	Wk7		Exam 2 2:30 – 3:30p		12.3	
	12.4	The Cross Product			Sec. 11.2 – 11.11		Quiz 12.3	
	12.5	Equations of Lines and Planes	Feb	27	28	1	2	3
	12.6	Cylinders and Quadric Surfaces	Mar	Wk8	12.4		12.5	last day to drop w/W
		Quiz 12.4	Quiz 12.5					
Vector Functions	13.1	Vector Functions and Space Curves	Mar	6	7	8	9	10
	13.2	Derivatives and Integrals of Vector Functions	Wk9		12.6		13.1	
	13.3	Arc Length and Curvature	Quiz 12.6		Quiz 13.1			
	13.4	Motion in Space: Velocity and Acceleration	Mar	13	14	15	16	17
			Wk10		Exam 3 2:30 – 3:30p		13.2	
			Sec. 12.1 – 12.6		Quiz 13.2			
			Mar	20	21	22	23	24
			Wk11		13.3		13.4	
			Quiz 13.3	Quiz 13.4				
		Mar	27	28	29	30	31	
		Wk12		Final 1:45 – 3:45p				
				HW Due 11:59 p				

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