

COURSE: Math 1A-62Z CRN 27487

QUARTER: Fall 2023

Online Asynchronous

INSTRUCTOR: Millia Ison

ZOOM OFFICE HOUR: TuTh 4:30 -6:10 pm. Link: <https://fhda-edu.zoom.us/j/95244405559>

EMAIL: isonmillia@fhda.edu

OFFICE NUMBER: S76e **OFFICE PHONE:** 864-5659

COURSE PREREQUISITES: Math 32, 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 computer with graph capability is required.

GRADING:

Homework ----160 points

Quizzes -----80 points

3 midterms --- 150 points

Final exam ---- 110 points

Total ----- 500 points

A: $\geq 93\%$, 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 bases. However all homework is due on **December 12**. Total points on WebAssign is 1470 (subject to change). Out which, 1430 points is required (subject to change). If you have 1430, you earn 160 points (full credit) toward your grade. If you have total of 1460, then $1460/1430 \approx 1.02$, that is 102%, $102\% \times 160 = 163$, you have 163 points for homework, which is 3 points extra. The total amount of the extra credit will be decided after the final exam.

You need to install the "**Lockdown Browser**" on webAssign when you start the first quiz.

Lockdown browser is required for all quizzes and exams. Alternative is to schedule a time to take on campus.

QUIZZES: 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 16 quizzes this quarter. 3 lowest scores will be dropped.

EXAMS: 50 points each. **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, you must contact me before or on the exam day. The percentage of your final exam score multiply by 50 will replace the exam score.

FINAL EXAM: 110 points. **Wednesday, Dec. 13, 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 and quizzes are to test your understanding of mathematics concepts and homework assignments. **Cheating of any form on quizzes, midterm exams or final exam will be grounds for disciplinary action.**

IMPORTANT DATES: Sunday, Oct. 8 --- Last day to drop without grade on your record.

Friday, Nov. 17 --- Last day to drop with a "W".

Student is responsible to withdraw from the class. The last day for you to withdraw is **Nov. 17**.

After that day, you will receive a grade.

Chapter	SEC	PROBLEMS		Monday	Tuesday	Wednesday	Thursday	Friday
2 Limits and Derivative	2.1	The Tangent and Velocity Problems	Sept	25	26	27	28	29
	2.2	The Limit of a Function		Learn and do homework 2.1, 2.2 and 2.3				
	2.3	Calculating Limits Using the Limit Laws	Wk1	Complete Quiz 2.2 and Quiz 2.3				
	2.4	The Precise Definition of a Limit	Oct	2	3	4	5	6
	2.5	Continuity		Learn and do homework 2.4, 2.5 and 2.6				
	2.6	Limits at Infinity: Horizontal Asymptotes	Wk2	Complete Quiz 2.5 and Quiz 2.6				
	2.7	Derivatives and Rates of Change	Oct	9	10	11	12	13
	2.8	The Derivative as a Function		Learn and do HW 2.7		Exam 1 6:30-7:30pm	Learn and do HW 2.8 Complete Quiz 2.8	
3 Differentiation Rule	3.1	Derivatives of Polynomials and Exponential Functions	Wk3					
	3.2	The Product and Quotient Rules	Oct	16	17	18	19	20
	3.3	Derivatives of Trigonometric Functions		Learn and do homework 3.1, 3.2 and 3.3				
	3.4	The Chain Rule	Wk4	Complete Quiz 3.2 and Quiz 3.3				
	3.5	Implicit Differentiation	Oct	23	24	25	26	27
	3.6	Derivatives of Logarithmic Functions		Learn and do homework 3.4, 3.5 and 3.6				
	3.7	Rates of Change in the Natural and Social Sciences	Wk5	Complete Quiz 3.4 and Quiz 3.6				
	3.8	Exponential Growth and Decay	Oct	30	31	1	2	3
4 Applications of Differentiation	3.9	Related Rates	Nov	Learn and do HW 3.7 & 3.8		Exam 2 6:30-7:30p	Learn and do HW 3.9 Complete Quiz 3.9	
	3.10	Linear Approximation and Differentials	Wk6					
	4.1	Maximum and Minimum Values	Nov	6	7	8	9	10
	4.2	The Mean Value Theorem		Learn and do homework 3.10 and 4.1				
	4.3	What Derivatives Tells Us about the Shape of a Graph	Wk7	Complete Quiz 3.10 and Quiz 4.1				
	4.4	Indeterminate Forms and L'Hospital's Rule	Nov	13	14	15	16	17
	4.5	Summary of Curve Sketching		Learn and do homework 4.2 and 4.3				
	4.7	Optimization Problems	Wk8	Complete Quiz 4.2 and Quiz 4.3				
All homework assignments and due dates are listed on WebAssign. These are the least amount of exercises you need to do. If you don't master the material well afterdoing WebAssign, work with more of the similar problems in the text.	4.8	Newton's Method	Nov	20	21	22	23	24
	4.9	Antiderivatives		Learn and do homework 4.4 and 4.5			Thanksgiving	Thanksgiving
			Wk9	Complete Quiz 4.4 & Quiz 4.5				
			Nov	27	28	29	30	1
			Wk10	Learn and do homework 4.5		Exam 3 6:30-7:30p	Learn and do homework 4.7 Complete Quiz 4.7	
			Dec	4	5	6	7	8
			Wk11	Learn and do homework 4.8 and 4.9 Complete Quiz 4.8 and Quiz 4.9				
			Dec	11	12	13	14	15
		Wk12		HW Due 11:59pm	Final 6:30 – 8:30p			

Student Learning Outcome(s):

- Analyze and synthesize the concepts of limits, continuity, and differentiation from a graphical, numerical, analytical and verbal approach, using correct notation and mathematical precision.
- Evaluate the behavior of graphs in the context of limits, continuity and differentiability.
- Recognize, diagnose, and decide on the appropriate method for solving applied real world problems in optimization, related rates and numerical approximation.

Office Hours:

T,TH 04:30 PM 06:10 PM Zoom