

COURSE: Math 1A-50Z Calculus
CRN: 12373
DAY: MTuWTh
TIME: online

QUARTER: Summer 2021
INSTRUCTOR: Millia Ison
OFFICE PHONE: By Appointment
OFFICE Hour Zoom ID: 989 9789 0924
E-mail: isonmillia@fhda.edu

OFFICE HOUR: By appointment
COURSE PREREQUISITES: Math 43, 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:

Homework -180 points, 36%	A: 93% - 96 % , 465 - 500 pts	C+: 76% - 79 % , 380 - 399 pts
Quizzes --- 80 points, 16%	A- : 90% - 92 % , 450 - 464 pts	C: 70 % - 75 % , 350 - 379 pts
2 midterms -120 points, 24%	B+: 87% - 89 % , 435 - 449 pts	D: 60 % - 69 % , 300 - 349 pts
Final exam -120 points, 24%	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 August 4, Wednesday, 11:59 pm.** Total points on WebAssign is 1470(subject to change). Out of which, 1440 points are required (subject to change). If you have 1440, you earn 180 points (full credit) toward your grade. If you have total of 1440, then $1470/1440$, that is 102%, $102 \times 180 \approx 184$, you have 4 points extra credit. The total amount of the extra credit will be decided after the final exam.

Quiz Points: **4 quizzes each week** (3 quizzes 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 19 quizzes this quarter. 3 lowest scores will be dropped.

Exams and Points: 60 points each. **Wednesdays.** July 14 and July 28, 6-7:30 pm. **No make-up midterm exams.** 0 point for missed exam. For unusual circumstances, the percentage of your final exam score multiply by 60 will replace the exam score. Student must email me to state the unusual situation on or before the exam day.

FINAL EXAM: 120 points. **August 5, Thursday, 6 – 8 pm.** **Fail to take the final exam, you will receive “F” for your grade.**

Exams and quizzes are to test your understanding of the classroom discussions and homework assignments. **Notes and graphic calculator are allowed for quizzes and exams**

IMPORTANT DATES: Thursday, July 1 --- Last day to drop without grade on you record.
Thursday, July 22 --- Last day to drop with a "W".

Student is responsible to drop or withdraw from the class.

Math 1A-50Z

Summer 2021 Calendar

	Topic		Monday	Tuesday	Wednesday	Thursday
2.1	The Tangent and Velocity Problems	June	28	29	30	1
2.2	The Limit of a Function	July	2.1, 2.2	2.2, 2.3	2.3, 2.4	2.5, 2.6
2.3	Calculating Limits Using the Limit Laws			Quiz 2.2	Quiz 2.3	Quiz 2.5
2.4	The Precise Definition of a Limit	July	5	6	7	8
2.5	Continuity		2.6, 2.7	2.7, 2.8	3.1, 3.2	3.3, 3.4
2.6	Limits at Infinity: Horizontal Asymptotes		Quiz 2.6	Quiz 2.8	Quiz 3.2	Quiz 3.3
2.7	Derivatives and Rates of Change	July	12	13	14	15
2.8	The Derivative as a Function		3.4, 3.5	3.6, 3.7	Review	3.8, 3.9
3.1	Derivatives of Polynomials and Exponential Functions		Quiz 3.4	Quiz 3.6	Exam 1, 6-7:30pm	Quiz 3.9
3.2	The Product and Quotient Rules	July	19	20	21	22
3.3	Derivatives of Trigonometric Functions		3.10	4.1	4.2	4.3
3.4	The Chain Rule		Quiz 3.10	Quiz 4.1	Quiz 4.2	Quiz 4.3
3.5	Implicit Differentiation	July	26	27	28	29
3.6	Derivatives of Logarithmic Functions	Aug	4.4	4.5	Review	4.7
3.7	Rates of Change in the Natural and Social Sciences		Quiz 4.4	Quiz 4.5	Exam 2, 6-7:30pm	Quiz 4.7
3.8	Exponential Growth and Decay	Aug	2	3	4	5
3.9	Related Rates		4.8	4.9	Quiz 4.8 & 4.9 due 11:59pm	Final
3.10	Linear Approximation and Differentials		Quiz 4.8	Quiz 4.9	Homework Due 11:59pm	6-8 p
4.1	Maximum and Minimum Values					
4.2	The Mean Value Theorem					
4.3	How Derivatives Affect the Shape of a Graph					
4.4	Indeterminate Forms and L'Hospital's Rule					
4.5	Summary of Curve Sketching					
4.7	Optimization Problems					
4.8	Newton's Method					
4.9	Antiderivatives					

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.