COURSE: Math 1D-31Z, CRN 38473 **QUARTER:** Winter 2024
DAY: TuTh 4:00 – 6:15 pm **INSTRUCTOR**: Millia Ison
ZOOM LINK: https://fhda-edu.zoom.us/j/88254132493
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 1C, 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% , 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 26, 11:59 pm. **No Extension under any circumstances.** Total points on WebAssign is 988(subject to change). Out of which, 955 points are required (subject to change). If you have 955, you earn 160 points (full credit) toward your grade. If you have total of 980, then $980/955 \approx 1.026$, that is 102.6%, $102.6\% \times 160 \approx 164$, which is 4 points extra credit. The total amount of the extra credit will be decided after the final exam.

QUIZ POINTS: 5 points each. 5:45 – 6:15 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. Dates 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. Thursday, March 28, 4 p – 6 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 final exam will be grounds for disciplinary action.**

IMPORTANT DATES: Sunday, Jan. 21 --- Last day to drop without grade on your record.
Friday, Mar. 1 --- Last day to drop with a "W".

Student is responsible to withdraw from the class. The last day for you to withdraw is March 1. After that day, you will receive a grade.

Text: Stewart 9th edition **Math 1D-31Z Winter 2024 Calendar** **CRN 38473** **TuTh 4p-6:15p Online**

CHAPTER	SEC	PROBLEMS
Function Of Several Variables	14.1	Functions of Several Variables
	14.2	Limits and Continuity
	14.3	Partial Derivatives
	14.4	Tangent Planes and Differentials
	14.5	The Chain Rule
	14.6	Directional Deriv & the Grad. Vector
	14.7	Maximum and Minimum Values
	14.8	Lagrange Multipliers
Multiple Integrals	15.1	Double Integrals over Rectangles
	15.2	Double Integrals over General Regions
	15.3	Double Integrals in Polar Coordinates
	15.4	Applications of Double Integrals
	15.5	Surface Area
	15.6	Triple Integrals
	15.7	Triple Integrals in Cylindrical Coordinates
	15.8	Triple Integrals in Spherical Coordinates
	15.9	Change of Variables in Multiple Integrals
Vector Calculus	16.1	Vector Fields
	16.2	Line Integrals
	16.3	The Fundamental Thm for Line Integrals
	16.4	Green's Theorem
	16.5	Curl and Divergence
	16.6	Parametric Surfaces and Their Areas
	16.7	Surface Integrals
	16.8	Stokes' Theorem
	16.9	The Divergence Theorem
	16.10	Summary

. 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 after doing WebAssign, work with more of the similar problems in the text.

	Monday	Tuesday	Wednesday	Thursday	Friday
Jan Wk1	8	9 14.1 Quiz 14.1	10	11 14.2, 14.3 Quiz 14.2, 3	12
Jan Wk2	15 MLKing's Birthday	16 14.4 Quiz 14.4	17	18 14.5 Quiz 14.5	19
Jan Wk3	22	23 14.6, 14.7 Quiz 14.6	24	25 14.7, 14.8 Quiz 14.7	26
Jan Feb Wk4	29	30 Review Exam 1	31	1 15.1, 15.2 Quiz 15.2	2
Feb Wk5	5	6 15.3, 15.4 Quiz 15.3	7	8 15.4, 15.5 Quiz 15.4,5	9
Feb Wk6	12	13 15.6,15.7 Quiz 15.6	14	15 15.7, 15.8 Quiz 15.7	16 Lincoln's Birthday
Feb Wk7	19 Washington's Birthday	20 Review Exam 2	21	22 15.9 Quiz 15.8,9	23
Feb Mar Wk8	26	27 16.1,16.2 Quiz 16.2	28	29 16.3 Quiz 16.3	1 Last day to drop with a "W"
Mar Wk9	4	5 16.4, 16.5 Quiz 16.4	6	7 16.5,16.6 Quiz 16.5,6	8
Mar Wk10	11	12 Review Exam 3	13	14 16.7 Quiz 16.7	15
Mar Wk11	18	19 16.8 Quiz 16.8	20	21 16.9, 16.10 Quiz 16.9	22
Mar Wk12	25	26 **HW Due 11:59 p**	27	28 Final Exam 4p– 6p	29

Student Learning Outcome(s):

• Apply analytic, graphical and numerical methods to study multivariable and vector-valued functions and their derivatives, using correct notation and mathematical precision.
• Use double, triple and line integrals in applications, including Green's Theorem, Stokes' Theorem and Divergence Theorem.
• Synthesize the key concepts of differential, integral and multivariate calculus.

Office Hours:

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