

**COURSE:** Math 1D-32Z, CRN 01205 **QUARTER:** Spring 2023  
**DAY:** TuTh 6:30 – 8:45 pm **INSTRUCTOR:** Millia Ison  
**ZOOM LINK:** <https://fhda-edu.zoom.us/j/88083579534> ~~**OFFICE NUMBER:** S76e~~  
**ZOOM OFFICE HOUR:** MW 10:00 -11:40 am. Link: <https://fhda-edu.zoom.us/j/95244405559>  
**EMAIL:** [isonmillia@fhda.edu](mailto:isonmillia@fhda.edu)

**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: $\geq 93\%$ , 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 June 27, 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. 8:15 – 8:45 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. 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, June 29, 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 final exam will be grounds for disciplinary action.**

**IMPORTANT DATES:** Sunday, April 18 --- Last day to drop without grade on your record.  
Friday, June 2 --- Last day to drop with a "W".

Student is responsible to withdraw from the class. The last day for you to withdraw is **June 2**. After that day, you will receive a grade.

CHAPTER	SEC	PROBLEMS		Monday	Tuesday	Wednes day	Thursday	Friday	
Function Of Several Variables	14.1	Functions of Several Variables	April	10	11	12	13	14	
	14.2	Limits and Continuity	Wk1		14.1		14.2, 14.3		
	14.3	Partial Derivatives		Quiz 14.1		Quiz 14.2, 3			
	14.4	Tangent Planes and Differentials	April	17	18	19	20	21	
	14.5	The Chain Rule	Wk2		14.4		14.5		
	14.6	Directional Deriv & the Grad. Vector		Quiz 14.4		Quiz 14.5			
	14.7	Maximum and Minimum Values	April	24	25	26	27	28	
	14.8	Lagrange Multipliers	Wk3		14.6, 14.7		14.7, 14.8		
				Quiz 14.6		Quiz 14.7			
Multiple Integrals	15.1	Double Integrals over Rectangles	May	1	2	3	4	5	
	15.2	Double Integrals over General Regions	Wk4		Review		15.1, 15.2		
	15.3	Double Integrals in Polar Coordinates		Exam 1		Quiz 15.2			
	15.4	Applications of Double Integrals	Wk5	May	8	9	10	11	
	15.5	Surface Area				15.3, 15.4		15.4, 15.5	
	15.6	Triple Integrals	May	15	16	17	18	19	
	15.7	Triple Integrals in Cylindrical Coordinates	Wk6		15.6, 15.7		15.7, 15.8		
	15.8	Triple Integrals in Spherical Coordinates		Quiz 15.6		Quiz 15.7			
	15.9	Change of Variables in Multiple Integrals	May	22	23	24	25	26	
Vector Calculus	16.1	Vector Fields	Wk7		Review		15.9, 16.1		
	16.2	Line Integrals		Exam 2		Quiz 15.8,9			
	16.3	The Fundamental Thm for Line Integrals	May	29	30	31	1	2	
	16.4	Green's Theorem	Wk8	June	Memorial Day Holiday	16.1, 16.2		16.3	
	16.5	Curl and Divergence		Quiz 16.2		Quiz 16.3		Last day to drop with a "W"	
	16.6	Parametric Surfaces and Their Areas	June	5	6	7	8	9	
	16.7	Surface Integrals	Wk9		16.4, 16.5		16.5, 16.6		
	16.8	Stokes' Theorem		Quiz 16.4		Quiz 16.5,6			
	16.9	The Divergence Theorem	June	12	13	14	15	16	
16.10	Summary	Wk10		Review		16.7			
			Exam 3		Quiz 16.7				
<p>All homework assignments and due dates are listed on WebAssign</p> <p>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.</p>			June	19	20	21	22	23	
			Wk11		Juneteenth Holiday	16.8		16.9, 16.10	
				Quiz 16.8		Quiz 16.9			
			June	26	27	28	29	30	
Wk12		HW Due 11:59 p		Final Exam 6:15 – 8:15					

**Student Learning Outcome(s):**

\*Graphically and analytically synthesize and apply 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