

COURSE: Math 1C-25 Calculus
DAY: MW
TIME: 4:00 - 6:15 pm
EMAIL: isonmillia@fhda.edu

QUARTER: Winter 2019
INSTRUCTOR: Millia Ison
OFFICE PHONE: 864-5659
OFFICE NUMBER: S76e

OFFICE HOUR : MTuWTh: 6:20 – 7:10 pm.

COURSE PREREQUISITES: Math 1B, or equivalent course with a grade "C" or better.

TEXT: Calculus: Early Transcendentals, by James Stewart, 8th edition.

ENROLL WEB ASSIGN : Class Key: **deanza 7011 2497**

EQUIPMENT: A computer or a computer with graph capability is required.

GRADING:

WebAssign -----75 points	A: 93% - 96 % , 558 - 600 pts	C+: 76% - 79 % , 456 - 479 pts
13 quizzes -----75 points	A- : 90% - 92 % , 540 - 557 pts	C: 70 % - 75 % , 420 - 455 pts
3 midterms --- 300 points	B+: 87% - 89 % , 522 - 539 pts	D: 60 % - 69 % , 360 - 419 pts
Final exam ---- 150 points	B: 83% - 86 % , 498 - 521 pts	F: 0 % - 59 % , 0 - 359 pts
Total ----- 600 points	B-: 80% - 82 % , 480 - 497 pts	

Homework Points: You need to do your homework on a regular bases. However all homework is due on March 28. Total points on WebAssign is 1141(subject to change). Out of which, 1010 points are required (subject to change). If you have 1010, you earn 75 points (full credit) toward your grade. If you have total of 1080, then $1080/1010 \approx 1.07$, that is 107%, $107\% \cdot 75 \approx 80$, you have 80 points for homework, which is 5 points extra credit. Maximum you can earn is 85 points for homework. If you complete all problems correctly, you may earn up to 10 extra credit points.

Quiz Points: 6 points each quiz, ¹2 quizzes each week (1 quiz in an exam week). There are 18 quizzes this quarter. Your **1** lowest quiz scores will be dropped. If you have 100% on all quizzes, then $14 \cdot 6 = 84$ points. 75 points is required, points over 75 are extra credit.

EXAM POINTS: 100 points each. Dates are on the calendar the next page. Scheduled dates are subject to change. **NO make-up midterm exams.** Absences are counted as 0's. If the percent of your final exam score is higher than some of your exams, it will replace the lowest exam score. It can only replace 1 out of 3 exams. For example: your lowest exam score is 73%, your achieve 120/150 on the final exam, which is 80%. Then the 73 on the exam is replaced by 80. If all your 3 exams are higher than your final exam percentage, then your exam scores will not change. People doing better on the final will help their overall score.

FINAL EXAM: **Wednesday, March 27**, 4:00 – 6:00 p

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. **Cheating of any form on quizzes, midterm exams or final exam will be grounds for disciplinary action.**

IMPORTANT DATES: Sunday, Jan. 20 --- Last day to drop without grade on your record.

Friday, Mar. 1 --- Last day to drop with a "W".

ATTENDANCE: Regular attendance is required. More than 3 absences without contact me will result in a "W" or "F" for the class. Last day to drop class is **March 1**. After that day, You will receive a grade for the course.

Chapter	SEC	PROBLEMS		Monday	Tuesday	Wednesday	Thursday	Friday
Parametric Equations And Polar Coordinates	10.1	Curves Defined by Parametric Equations	Jan	7	8	9	10	11
	10.2	Calculus with Parametric Curves		10.1		10.2, 10.3		
	10.3	Polar Coordinates						
	10.4	Areas and Lengths in Polar Coordinates	Jan	14	15	16	17	18
				10.4		11.1, 11.2		
Infinite Sequences And Series	11.1	Sequences						
	11.2	Series	Jan	21	22	23	24	25
	11.3	The Integral Test and Estimates of Sums		M L King Day Holiday		11.2, 11.3		
	11.4	The Comparison Tests						
	11.5	Alternating Series	Jan	28	29	30	31	1
	11.6	Absolute Convergence & the Ratio and Root Tests	Feb	Review Exam 1		11.4, 11.5		
	11.7	Strategy for Testing Series						
	11.8	Power Series	Feb	4	5	6	7	8
	11.9	Representations of Functions as Power Series		11.6, 11.7		11.8, 11.9		
	11.10	Taylor and MacLaurin Series						
11.11	Applications of Taylor Polynomials	Feb	11	12	13	14	15	
			11.9, 11.10		11.11,		Lincoln's Birthday Holiday	
Vector And The Geometry Of Space	12.1	Three-Dimensional Coordinate Systems						
	12.2	Vectors	Feb	18	19	20	21	22
	12.3	The Dot Product		Washington's B-day Holiday		Review Exam 2		
	12.4	The Cross Product						
12.5	Equations of Lines and Planes	Feb	25	26	27	28	1	
12.6	Cylinders and Quadric Surfaces	Mar	12.1, 12.2		12.3		last day to drop w/W	
Vector Functions	13.1	Vector Functions and Space Curves	Mar	4	5	6	7	8
	13.2	Derivatives and Integrals of Vector Functions		12.4, 12.5		12.5, 12.6		
	13.3	Arc Length and Curvature						
	13.4	Motion in Space: Velocity and Acceleration	Mar	11	12	13	14	15
				13.1, 13.2		Review Exam 3		
		Mar	18	19	20	21	22	
			13.3		13.4 Review			
		Mar	25	26	27	28	29	
					Final			

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.