

COURSE: Math 1B-27 Calculus
DAY: TuTh
TIME: 4 – 6:15 p
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 1A, or equivalent course with a grade "c" or better.

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

ENROLL WEB ASSIGN : Class code: **deanza 8748 8929**

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

GRADING:

Homework -----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 787(subject to change). Out of which, 700 points are required (subject to change). If you have 700, you earn 75 points (full credit) toward your grade. If you have total of 750, then $750/700 \approx 1.07$, 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 84 points for homework. If you complete all problems correctly, you may earn up to 9 extra credit points.

Quiz Points: 6 points each quiz. ^[1]_{SEP} 2 quizzes each week (1 quiz in an exam week). There are 18 quizzes this quarter. Your 2 lowest quiz scores will be dropped. If you have 100% on all quizzes, then $16 \cdot 6 = 96$ 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: **Thursday, March 28, 4 – 6 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. Frequent absences will result in a “W” or “F” for the class. The last day for you to drop the class is **March 1**. After that day, you will receive a grade.

Chapter	SEC	Topics		Monday	Tuesday	Wednesday	Thursday	Friday	
Integrals	5.1	Areas and Distances	Jan	7	8	9	10	11	
	5.2	The Definite Integral			5.1, 5.2		5.2, 5.3		
	5.3	The Fundamental Theorem of Calculus							
	5.4	Indefinite Integrals and the Net Change Thm	Jan	14	15	16	17	18	
	5.5	The Substitution Rule			5.3, 5.4		5.5		
Hyp/Invhyp	3.11	Hyperbolic and Inverse Hyperbolic Functions							
Appendix G		ln as a def. integral & exp as the inv of ln.	Jan	21	22	23	24	25	
Applications of Integrals	6.1	Areas Between Curves		M L King Day	3.11		suppl		
	6.2	Volumes		Holiday					
	6.3	Volume by Cylindrical Shells	Jan	28	29	30	31	1	
	6.4	Work	Feb		Review		6.1, 6.2		
	6.5	Average Value of a Function			Exam 1				
Techniques of Integration	7.1	Integration by Parts	Feb	4	5	6	7	8	
	7.2	Trigonometric Integrals			6.3, 6.4		6.4, 6.5		
	7.3	Trigonometric Substitution							
	7.4	Integration of Rat'l Funct'ns by Partial Fractions	Feb	11	12	13	14	15	
	7.5	Strategy for Integration			7.1, 7.2		7.2, 7.3	Lincoln's Birthday	
	7.6	Integration Using Tables and Computer						Holiday	
	7.7	Approximate Integration	Feb	18	19	20	21	22	
	7.8	Improper Integrals		Washington's B-day	Review		7.4, 7.5		
Further Applications	8.1	Arc Length		Holiday	Exam 2				
	10.2	Arc Length of Parametric Equations	Feb	25	26	27	28	1	
	8.3	Applications to Physics and Engineering	Mar		7.6, 7.7		7.8		
	8.5	Probability						last day to drop w/W	
Differential Equations	9.1	Modeling with Differential Equations	Mar	4	5	6	7	8	
	9.2	9.2 Direction Fields and Euler's Method			8.1, 10.2		8.3		
	9.3	9.3 Separable Equations							
	9.4	9.4 Models for Population Growth	Mar	11	12	13	14	15	
<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>					Review		8.5		
			Mar	18	19	20	21	22	
					9.1, 9.2		9.3, 9.4		
			Mar	25	26	27	28	29	
						Final			
						4p – 6p			

Student Learning Outcome(s):

*Analyze the definite integral from a graphical, numerical, analytical, and verbal approach, using correct notation and mathematical precision.

*Formulate and use the Fundamental Theorem of Calculus.

*Apply the definite integral in solving problems in analytical geometry and the sciences.