

COURSE: Math 1B-27 Calculus
DAY: TuTh
TIME: 4 – 6:15 p
EMAIL: isonmillia@fhda.edu

QUARTER: Fall 2018
INSTRUCTOR: Millia Ison
OFFICE PHONE: 864-5659
OFFICE NUMBER: S76e

OFFICE HOUR : MW: 3:00 – 3:50 pm. TuTh 12:30 – 1:20 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 9351 8852**

EQUIPMENT: A graphic calculator is required.

GRADING:

WebAssign -----75 points	A: 93% - 96 % , 558 - 600 pts	C+: 76% - 79 % , 456 - 479 pts
12 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	

QUIZZES: TuTh. 5 points each quiz.

MIDTERM EXAMS: 100 points each. Dates are on the calendar next page.
Scheduled dates are subject to change

FINAL EXAM: Thursday, December 13, 4 – 6 p
Fail to take the final exam, you will receive “F” for your grade.

IMPORTANT NOTES :

- No make-ups for quizzes. Absences are counted as 0's. your lowest quiz grade will be dropped.
- No make-up midterm exams. Absences are counted as 0's. For special circumstances, the percent of your final exam score will be replaced for the missed midterm exam. You must contact me before or on the day of the exam.
- See the other side for the homework assignment. 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, Oct 7 --- Last day to drop without grade on your record.
Friday, Nov 16 --- 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 Nov. 16. After that day, you will receive a grade.

Chapter	SEC	Topics		Monday	Tuesday	Wednesday	Thursday	Friday
Integrals	5.1	Areas and Distances	Sept	24	25	26	27	28
	5.2	The Definite Integral		5.1, 5.2	5.2, 5.3			
	5.3	The Fundamental Theorem of Calculus	Oct	1	2	3	4	5
	5.4	Indefinite Integrals and the Net Change Thm		5.3, 5.4	5.5			
	5.5	The Substitution Rule						
Hyp/Invhyp	3.11	Hyperbolic and Inverse Hyperbolic Functions						
Appendix G		ln as a def. integral & exp as the inv of ln.	Oct	8	9	10	11	12
Applications of Integrals	6.1	Area Between Curves	Oct		3.11		suppl	
	6.2	Volumes						
	6.3	Volume by Cylindrical Shells	Oct	15	16	17	18	19
	6.4	Work	Review	6.1, 6.2				
	6.5	Average Value of a Function	Exam 1					
Techniques of Integration	7.1	Integration by Parts	Oct	22	23	24	25	26
	7.2	Trigonometric Integrals	Oct		6.3, 6.4		6.4, 6.5	
	7.3	Trigonometric Substitution						
	7.4	Integration of Rat'l Funct'ns by Partial Fractions	29	30	31	1	2	
	7.5	Strategy for Integration	Nov		7.1, 7.2		7.2, 7.3	
	7.6	Integration Using Tables and Computer	Nov		6	7	8	9
	7.7	Approximate Integration		5	Review	7.4, 7.5		
	7.8	Improper Integrals		Exam 2				
Further Applications	8.1	Arc Length	Nov	12	13	14	15	16
	10.2	Parametric arclength		Veterans Day	7.6, 7.7	7.8		
	8.3	Applications to Physics and Engineering	Holiday				last day to drop w/W	
	8.5	Probability						
Differential Equations	9.1	Modeling with Differential Equations	Nov	19	20	21	22	23
	9.2	9.2 Direction Fields and Euler's Method	Nov		8.1, 8.2		Thanksgiving	Thanksgiving
	9.3	9.3 Separable Equations						
	9.4	9.4 Models for Population Growth	26	27	28	29	30	
<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>			Dec	3	4	5	6	7
					9.1, 9.2		9.3, 9.4	
			Dec	10	11	12	13	14
						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.