

**COURSE:** Math 1B-27 Calculus  
**DAY:** TuTh  
**TIME:** 4 – 6:15 p  
**EMAIL:** [isonmillia@fhda.edu](mailto:isonmillia@fhda.edu)

**QUARTER:** Winter 2016  
**INSTRUCTOR:** Millia Ison  
**OFFICE PHONE:** 864-5659  
**OFFICE NUMBER:** S76e

**OFFICE HOUR :** MTuWTh: 12:00-12:20p, 6:20 – 7:00p

**COURSE PREREQUISITES:** Math 1A, or equivalent course with a grade "c" or better.

**TEXT:** Calculus: Early Transcendentals, by James Stewart, 7th edition.

**ENROLL WEB ASSIGN :** Class code: **deanza 3156 1106**

**EQUIPMENT:** A graphic calculator is required.

- SLO:**
1. Analyze the definite integral from a graphical, numerical, analytical and verbal approach, using correct notation and mathematical precision.
  2. Formulate and use the Fundamental Theorem of Calculus.
  3. Apply the definite integral in solving problems in analytical geometry and the sciences

**GRADING:**

WebAssign ----100 points	A: 93% - 96 % , 558 - 600 pts	C+: 76% - 79 % , 456 - 479 pts
5 quizzes -----50 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:** Thursdays. 10 points each quiz.

**MIDTERM EXAMS:** Thursdays. ( 100 points each). Scheduled dates are subject to change.  
Please see the next page calendar.

**FINAL EXAM:** Thursday, March 24, 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:** Monday, Jan. 18 --- Last day to drop without grade on your record.  
Friday, Feb. 26 --- 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 Feb. 26. After that day, you will receive a grade.

Chapter	SEC	PROBLEMS		Monday	Tuesday	Wednesday	Thursday	Friday	
Integrals	5.1	Areas and Distances	Jan	4	5	6	7	8	
	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	11	12	13	14	15	
	5.5	The Substitution Rule			5.3, 5.4		5.5 quiz 1		
Hyp/Invhyp Functions	3.11 Suppl	Hyperbolic Funtions 7.6, 1-37 odd, 41, 45; 8.3, 3-23 odd, 24,27,31.	Jan	18	19	20	21	22	
Applications of Integrals	6.1	Aresa Between Curves		M L King Day <i>Holiday</i>	3.11, suppl		Review Exam 1		
	6.2	Volumes							
	6.3	Volume by Cylindrical Shells	Jan	25	26	27	28	29	
	6.4	Work			6.1, 6.2		6.3, quiz 2		
	6.5	Average Value of a Function							
Techniques of Integration	7.1	Integration by Parts	Feb	1	2	3	4	5	
	7.2	Trigonometric Integrals			6.4		6.4, 6.5 quiz 3		
	7.3	Trigonometric Substitution							
	7.4	Integration of Rat'l Funct'ns by Partial Fractions	Feb	8	9	10	11	12	
	7.5	Strategy for Integration			7.1, 7.2		Review Exam 2	Lincoln's Birthday <i>Holiday</i>	
	7.6	Integration Using Tables and Computer							
	7.7	Approximate Integration	Feb	15	16	17	18	19	
	7.8	Improper Integrals		Washington's B-day <i>Holiday</i>	7.2, 7.3		7.4, 7.5 quiz 4		
Further Applications	8.1	Arc Length							
	8.2	Area of a Surface of Revolution	Feb	22	23	24	25	26	
	8.3	Applications to Physics and Engineering			7.6, 7.7		7.8 quiz 5		
	8.5	Probability						last day to drop w/W	
Differential Equations	9.1	Modeling with Differential Equations	Feb	29	1	2	3	4	
	9.2	9.2 Direction Fields and Euler's Method	Mar		8.1, 8.2		Review Exam 3		
	9.3	9.3 Separable Equations							
	9.4	9.4 Models for Population Growth	Mar	7	8	9	10	11	
<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 afterdoing WebAssign, work with more of the similar problems in the text.</p>					8.3, 8.5		9.1, 9.2 quiz 6		
			Mar Dec	14	15	16	17	18	
					9.3		9.4 quiz 7		
			Mar	21	22	23	24	25	
						<b>Final 4p – 6p</b>			