

**COURSE:** Math 1B-27 Calculus  
**DAY:** TuTh  
**TIME:** 4:00 – 6:15 p  
**EMAIL:** [isonmillia@fhda.edu](mailto:isonmillia@fhda.edu)

**QUARTER:** Spring 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 7444 4712**

**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, June 23, 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, April 17 --- Last day to drop without grade on your record.  
Friday, May 27 --- 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 **May 27**. After that day, you will receive a grade.

Chapter	SEC	PROBLEMS		Monday	Tuesday	Wednesday	Thursday	Friday
Integrals	5.1	Areas and Distances	April	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	April	11	12	13	14	15
	5.4	Indefinite Integrals and the Net Change Thm		5.3	5.4			
	5.5	The Substitution Rule		quiz 1				
Hyp/Invhyp	3.11	Hyperbolic and Inverse Hyperbolic Funtions	April	18	19	20	21	22
Appendix G		In as a def. integral & exp as the inv of ln.		5.5	Review Exam 1			
Applications of Integrals	6.1	Aresa Between Curves	April	25	26	27	28	29
	6.2	Volumes		3.11	Appendix G			
	6.3	Volume by Cylindrical Shells	May	2	3	4	5	6
	6.4	Work		9	10	11	12	13
	6.5	Average Value of a Function		16	17	18	19	20
Techniques of Integration	7.1	Integration by Parts	May	23	24	25	26	27
	7.2	Trigonometric Integrals		7.6, 7.7	7.8			
	7.3	Trigonometric Substitution	May	30	31	1	2	3
	7.4	Integration of Rat'l Funct'ns by Partial Fractions		Memorial Day	8.1, 10.2	Review Exam 3		
	7.5	Strategy for Integration		Holiday	6	7	8	9
Further Applications	8.1	Arc Length	May	13	14	15	16	17
	10.2	Parametric arclength		7.2, 7.3	7.4, 7.5			
	8.3	Applications to Physics and Engineering	June	20	21	22	23	24
	8.5	Probability		8.3	8.5, 9.1	quiz 6		
Differential Equations	9.1	Modeling with Differential Equations	June	6	7	8	9	10
	9.2	Direction Fields and Euler's Method	June	13	14	15	16	17
	9.3	Separable Equations		9.2, 9.3	9.4			
	9.4	Models for Population Growth	June	20	21	22	23	24
<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>								
							Final 4 – 6 p	