COURSE: Math 1B-67Z Calculus **QUARTER:** Winter 2019
Online **INSTRUCTOR**: Millia Ison
Conference Zone: TuTh 10:30-11:30 **OFFICE PHONE**: 864-5659
EMAIL: **isonmillia@fhda.edu** **OFFICE NUMBER**: S76e
OFFICE HOUR : MTuWTh: 6:20 – 7:10 p. I will be in my office S76e on campus.
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 : Webassign.net . Class code: **deanza 4792 5838**
Homework and quizzes are on Web Assign.
EQUIPMENT: A graphic calculator or 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 26. Total points on WebAssign is 763(subject to change). Out which, 673 points is required (subject to change). If you have 673, you earn 75 points (full credit) toward your grade. If you have total of 740, then 740/673=1.1, that is 110%, 110% ´ 75 » 82, you have 82 points for homework, which is 7 points extra. Maximum you can earn is 85 points for homework, 10 points extra. If you complete all problems correctly, you may earn up to 10 extra credit points.

QUIZ POINTS: 6 points each quiz. 2 quizzes each week (1 quiz if a week has exam), due Sundays 11:59 pm, available 1 week before due. **NO EXTENSION under any circumstances**. If the deadline is missed, you get 0 for the quiz. There are 19 quizzes this quarter. Your 3 lowest quiz scores will be dropped. If you have 100% on all quizzes, then 16 ´ 6=96 points. 75 points is quired, points over 75 is extra credit.

EXAM POINTS: 100 points each. **MUST BRING YOUR PHOTO Identification Card**
Exam 1: Jan. 23, Wednesday 7:30 – 8:30 pm Room: MLC-109
Exam 2: Feb. 13, Wednesday 7:30 – 8:30 pm Room: MLC-109
Exam 3: Mar. 6, Wednesday 7:30 – 8:30 pm Room: MLC-109
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: 150 points. **MUST BRING YOUR PHOTO Identification Card**
Wednesday, March 27, 6:30 – 8:30p
Fail to take the final exam, you will receive "F" for your grade.

IMPORTANT DATES: Sunday, Jan. 20 --- Last day to drop without grade on your record.
Friday, Mar. 1 --- Last day to drop with a "W".
Student misses numerouse quizzes and not come for exams without contact me will result in a "W" or "F" for the class. Student is responsible to withdraw from the class. The last day for you to withdraw is Mar. 1**.** After that day, you will receive a grade.

Text: Stewart 8th edition **Math 1B-67Z Winter 2019 Calendar**

Chapter	SEC	PROBLEMS		Monday	Tuesday	Wednesday	Thursday	Friday
Integrals	5.1	Areas and Distances	Jan	7	8	9	10	11
	5.2	The Definite Integral		5.1	5.1	5.2,	5.2	5.2
	5.3	The Fundamental Theorem of Calculus	Wk1			Quiz 5.1		Quiz 5.2
	5.4	Indefinite Integrals and the Net Change Thm	Jan	14	15	16	17	18
	5.5	The Substitution Rule		5.3	5.3, 5.4	5.4 5.5	5.5	3.11
Hyp/Invhyp Log/Exp	3.11	Hyperbolic Funtions	Wk2			Quiz 5.3		Quiz 5.5
	App G	Redefine Log and Exp Functions	Jan	21	22	23	24	25
Applications of Integrals	6.1	Aresa Between Curves		M L King Day	3.11	Exam 1	AppG	
	6.2	Volumes	Wk3	Holiday		7:30-8-30p		Quiz App G
	6.3	Volume by Cylindrical Shells	Jan	28	29	30	31	1
	6.4	Work	Feb	6.1	6.1	6.2	6.2	6.2
	6.5	Average Value of a Function	Wk4			Quiz 6.1		Quiz 6.2
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	7.1
	7.3	Trigonometric Substitution	Wk5			Quiz 6.3		Quiz 6.4
	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	Exam 2	7.3	Lincoln's Birthday
	7.6	Integration Using Tables and Computer	Wk6			7:30-8-30p		Holiday
	7.7	Approximate Integration	Feb	18	19	20	21	22
	7.8	Improper Integrals		Washington's B-day	7.3	7.4,	7.4, 7.5	7.5
Further Applications	8.1	Arc Length	Wk7	Holiday		Quiz 7.3		Quiz 7.4
	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	7.8	Quiz 7.8
	8.5	Probability	Wk8			Quiz 7.7		last day to drop w/W
Differential Equations	9.1	Modeling with Differential Equations	Mar	4	5	6	7	8
	9.2	Direction Fields and Euler's Method		8.1	10.2	Exam 3	8.3	8.3
	9.3	9.3 Separable Equations	Wk9			7:30-8-30p		Quiz 8.3
	9.4	9.4 Models for Population Growth	Mar	11	12	13	14	15
				8.5	8.5	9.1	9.2	9.3
			Wk10			Quiz 8.5		Quiz 9.2
			Mar	18	19	20	21	22
				9.3	9.3	9.4,	9.4	Quiz 9.4
			Wk11			Quiz 9.3		
			Mar	25	26	27	28	29
						Final		
			Wk12			6:30 – 8:30p		

All homework assignments and due dates are listed on WebAssign.

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.

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.