COURSE: Math 1B-21 Calculus   **QUARTER:**   Spring 2019
DAY: MW   **INSTRUCTOR**:   Millia Ison
TIME: 1:30 – 3:45 p   **OFFICE PHONE**:   864-5659
EMAIL: **isonmillia@fhda.edu**   **OFFICE NUMBER**: S76e
OFFICE HOUR : MW: 12:30 – 1:20 pm; TuTh: 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: <mark>deanza 4200 1076</mark>

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%, $107\% \times 75 \approx 80$, you have 80 points for homework, which is 5 points extra credit. The total amount of the extra credit will be decided after the final exam.

Quiz Points: 6 points each quiz. 2 quizzes each week (1 quiz in an exam week). <u>You must take quiz in class.</u> **NO make-up quiz. Absent or taking a quiz outside of class is 0 for the quiz.** There are 17 quizzes this quarter. 13 quizzes are required. The extra quizzes either will be dropped (lowest scores) or will be extra credit. The total amount of the extra credit will be determined after the final exam.

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: <mark>Monday, June 24, 1:45 – 3:45 p</mark>
               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, April 21 --- Last day to drop without grade on your record.
                      Friday, May 31 --- 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 31. After that day, you will receive a grade.

Text: Stewart 8th edition **MATH 1B-21 Spring 2019 Calendar** **Room   E32**

Chapter	SEC	Topics
Integrals	5.1	Areas and Distances
	5.2	The Definite Integral
	5.3	The Fundamental Theorem of Calculus
	5.4	Indefinite Integrals and the Net Change Thm
	5.5	The Substitution Rule
Hyp/Invhyp	3.11	Hyperbolic and Inverse Hyperbolic Funtions
Appendix G		ln as a def. integral & exp as the inv of ln.
Applications of Integrals	6.1	Areas Between Curves
	6.2	Volumes
	6.3	Volume by Cylindrical Shells
	6.4	Work
	6.5	Average Value of a Function
Techniques of Integration	7.1	Integration by Parts
	7.2	Trigonometric Integrals
	7.3	Trigonometric Substitution
	7.4	Integration of Rat'l Funct'ns by Partial Fractions
	7.5	Strategy for Integration
	7.6	Integration Using Tables and Computer
	7.7	Approximate Integration
	7.8	Improper Integrals
Further Applications	8.1	Are Length
	10.2	Arclength of Parametric Equations
	8.3	Applications to Physics and Engineering
	8.5	Probability
Differential Equations	9.1	Modeling with Differential Equations
	9.2	9.2 Direction Fields and Euler's Method
	9.3	9.3 Separable Equations
	9.4	9.4 Models for Population Growth

   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.

	Monday	Tuesday	Wednesday	Thursday	Friday
April	8 5.1, 5.2	9	10 5.2, 5.3	11	12
April	15 5.3, 5.4	16	17 5.5	18	19
April	22 3.11	23	24 AppG	25	26
April / May	29 Review Exam 1	30	1 6.1, 6.2	2	3
May	6 6.3, 6.4	7	8 6.4, 6.5	9	10
May	13 7.1, 7.2	14	15 7.2, 7.3	16	17
May	20 Review Exam 2	21	22 7.4, 7.5	23	24
May	27 Memorial Day **Holiday**	28	29 7.6, 7.7	30	31 last day to drop w/W
June	3 7.8	4	5 8.1, 10.2, 8.3	6	7
June	10 Review Exam 3	11	12 8.5	13	14
June	17 9.1, 9.2	18	19 9.3, 9.4	20	21
June	24 **Final** **1:45–4:45p**	25	26	27	28

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.