COURSE: Math 1B-21 Calculus	**QUARTER:**	Fall 2019
DAY: TuTh	**INSTRUCTOR**:	Millia Ison
TIME: 1:30 – 3:45 p	**OFFICE PHONE**:	864-5659
EMAIL: isonmillia@fhda.edu	**OFFICE NUMBER**:	S76e

OFFICE HOUR : MW: 3:30 – 3:50 pm. in office S76e; TuTh: 12:00 -12:50 pm online.
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 6575 1914

EQUIPMENT: A graphic calculator or computer with graph capability is required.

GRADING:

WebAssign -----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 Dec. 10. Total points on WebAssign is 670(subject to change). Out of which, 620 points are required (subject to change). If you have 620, you earn 75 points (full credit) toward your grade. If you have total of 650, then $650/620 \approx 1.05$, that is 105%, 105% ´ 75 » 79, you have 79 points for homework, which is 4 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). You must take quiz in class. **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: Tuesday, December 10, 1:45– 3:45 p
          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, Oct. 6 --- Last day to drop without grade on your record.
          Friday, Nov. 15 --- 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. 15. After that day, you will receive a grade.

Text: Stewart 8th edition   **MATH 1B-21 Fall 2019 Calendar**   **Room S54**

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
Appendix G Applications of Integrals	6.1	Aresa 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
	7.7	Approximate Integration
	7.8	Improper Integrals
Further Applications	8.1	Are Length
	10.2	Parametric arclength
	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

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

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.