

**COURSE:** Math 1B-09 Calculus  
**CRN:** 12781  
**DAY:** MTuWTh  
**TIME** 12:30 – 2:45 p  
**OFFICE HOUR:** By appointment

**QUARTER:** Summer 2019  
**INSTRUCTOR:** Millia Ison  
**OFFICE PHONE:** 864-5659  
**OFFICE NUMBER:** S76E  
**E-mail:** [isonmillia@fhda.edu](mailto:isonmillia@fhda.edu)

**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 7423 5031**

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

**GRADING:**

Homework -----75 points  
13 quizzes -----75 points  
2 midterms --- 200 points  
Final exam ---- 150 points  
Total ----- 500 points

A:	93% - 96 % , 465 - 500 pts
A- :	90% - 92 % , 450 - 464 pts
B+:	87% - 89 % , 435 - 449 pts
B:	83% - 86 % , 415 - 434 pts
B-:	80% - 82 % , 400 - 414 pts

C+:	76% - 79 % , 380- 413 pts
C:	70 % - 75 % , 350 - 379 pts
D:	60 % - 69 % , 300 - 349 pts
F:	0 % - 59 % , 0 - 299 pts

**Homework Points:** You need to do your homework on a regular bases. However all homework is due on June 26. 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%,  $107\% \cdot 75 \approx 80$ , 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. <sup>L</sup><sub>SEP</sub> 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 18 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 2 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:** **August 8, 12:30 – 2:30 pm.** **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:** Monday, July 8 --- Last day to drop without grade on you record.  
Wednesday, July 31 --- Last day to drop with a "W".

**ATTENDANCE:** Regular attendance is required. If you have more than 3 absences without contact me, you will be dropped from the class. If you want to drop the class, **you must do so before or on July 31.** After that day, you will receive a grade for the course.

**Math 1B-09 Instructor: Ison Summer 2019 Calendar**

**E32, 12:30 – 2:45pm**

Chapter	Topic		MONDAY	Tuesday	Wednesday	Thursday
5.1	Areas and Distances	July	1	2	3	4
5.2	The Definite Integral		5.1, 5.2	5.2, 5.3	5.3, 5.4	Holiday
5.3	The Fundamental Theorem of Calculus					
5.4	Indefinite Integrals and the Net Change Theorem	July	8	9	10	11
5.5	The Substitution Rule		5.5	3.11	6.1, 6.2	6.2, 6.3
3.11	Hyperbolic and Inverse Hyperbolic Functions					
6.1	Areas Between Curves	July	15	16	17	18
6.2	Volumes		6.4, 6.5	Review	7.1	7.2
6.3	Volume by Cylindrical Shells			Exam 1		
6.4	Work	July	22	23	24	25
6.5	Average Value of a Function		7.3	7.4	7.5, 7.6	7.7
7.1	Integration by Parts					
7.2	Trigonometric Integrals	July	29	30	31	1
7.3	Trigonometric Substitution	Aug	7.8	8.1, 10.2, 8.3	Review	8.5, 9.1
7.4	Integration of Rat'l Funct'ns by Partial Fractions				Exam 2	
7.5	Strategy for Integration	Aug	5	6	7	8
7.6	Integration Using Tables and Computer		9.2, 9.3	9.3, 9.4	Review	<b>Final</b>
7.7	Approximate Integration					12:30 – 2:30 p
7.8	Improper Integrals					
8.1	Are Length					
10.2	Arc length of Parametric Equations					
8.3	Applications to Physics and Engineering					
8.5	Probability					
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					

**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.