

COURSE: Math 1B-09Y, CRN 26000
DAY: Tuesdays 1:30p-3:45p
Room: G7

QUARTER: Fall 2022
INSTRUCTOR: Millia Ison
EMAIL: isonmillia@fhda.edu

COURSE PREREQUISITES: Math 1A, or equivalent course with a grade "C" or better.
TEXT: Calculus: Early Transcendentals, by James Stewart, 9th edition.

ENROLL WEB ASSIGN: Log into your Canvas account, In Module, Click **WebAssign Sign in** to continue the registration process. Your Cengage course materials will open in a new tab or window, so be sure pop-ups are enabled. Homework and quizzes are on Web Assign.

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

GRADING:

Homework ----160 points	A: 93% - 96 % , 465 - 500 pts	C+: 76% - 79 % , 380 - 399 pts
Quizzes -----80 points	A-: 90% - 92 % , 450 - 464 pts	C: 70 % - 75 % , 350 - 379 pts
3 midterms --- 150 points	B+: 87% - 89 % , 435 - 449 pts	D: 60 % - 69 % , 300 - 349 pts
Final exam ---- 110 points	B: 83% - 86 % , 415 - 434 pts	F: 0 % - 59 % , 0 - 299 pts
Total ----- 500 points	B -: 80% - 82 % , 400 - 414 pts	

HOMEWORK POINTS: You need to do your homework on a regular basis. However, **all homework is due Tue. December 13, 11:59 pm.** **No Extension under any circumstances.** A total point on WebAssign is 703 (subject to change). Out which, 683 points are required (subject to change). If you have 683, you earn 160 points (full credit) toward your grade. If you have total of 703, then $703/683 \approx 1.03$, that is 103%, $103\% \times 160 \approx 164$ which is 4 points extra credit. The total amount of the extra credit will be decided after the final exam.

QUIZ POINTS: 5 points each. **2 quizzes each week** (1 quiz if a week has exam). One is **due Wednesdays 11:59 p**, available Tuesdays 4pm; the other one is due **Friday 11:59p**, available Thursdays 8 am. **NO EXTENSION under any circumstances.** If the deadline is missed, you get 0 for the quiz. There are 18 quizzes this quarter. 2 lowest scores will be dropped.

EXAM POINTS: 50 points each. Exams are in Room G7 on campus. See Calendar next page for exam dates. **No make-up midterm exams.** 0 point for missed exam. For unusual circumstances, you must contact me on or before the exam time, then the percentage of your final exam score multiply by 50 will replace the exam score. Exam Review is on WebAssign for each exam; it is optional. Points of the Reviews are NOT part of grade.

FINAL EXAM: 110 points. **December 13, Tuesday, 1:45 – 3:45p.** Room G7 on campus. Fail to take the final exam, you will receive "F" for your grade.

Exams and quizzes are to test your understanding of the course material and homework assignments. **Cheating of any form on quizzes, midterm exams or final exam will be grounds for disciplinary action.**

IMPORTANT DATES: Sunday, Oct. 9 --- Last day to drop without grade on your record.
Friday, Nov. 18 --- Last day to drop with a "W".

Student is responsible to withdraw from the class. The last day for you to withdraw is **Nov. 11.** After that day, you will receive a grade.

Text: Stewart 9th edition

MATH 1B-09Y Fall 2022 Calendar

Tuesdays 1:30p-3:45p

Chapter	SEC	Topics		Monday	Tuesday	Wednesday	Thursday	Friday	
Integrals	5.1	Areas and Distances	Sept	26	27	28	29	30	
	5.2	The Definite Integral	Wk1		5.1, 5.2, 5.3		5.3		
	5.3	The Fundamental Theorem of Calculus			Quiz 5.2		Quiz 5.3		
	5.4	Indefinite Integrals and the Net Change Thm	Oct	3	4	5	6	7	
	5.5	The Substitution Rule	Wk2		5.4, 5.5, 6.1		6.1		
		Quiz 5.5			Quiz 6.1				
Appendix G Applications of Integrals	6.1	Areas Between Curves	Oct	10	11	12	13	14	
	6.2	Volumes	Wk3		6.2, Exam 1		6.2		
	6.3	Volume by Cylindrical Shells			2:30 – 3:30p		Quiz 6.2		
	6.4	Work	Oct	17	18	19	20	21	
	6.5	Average Value of a Function	Wk4		6.3, 6.4, 6.5		6.4, 6.5		
		Quiz 6.3			Quiz 6.4				
Techniques of Integration	7.1	Integration by Parts	Oct	24	25	26	27	28	
	7.2	Trigonometric Integrals	Nov		7.1, 7.2		7.2		
	7.3	Trigonometric Substitution	Wk5		Quiz 7.1		Quiz 7.2		
	7.4	Integration of Rat'l Funct'ns by Partial Fractions	Nov	31	1	2	3	4	
	7.5	Strategy for Integration	Wk6		7.3, Exam 2		7.3		
	7.7	Approximate Integration			2:30 – 3:30p		Quiz 7.3		
	7.8	Improper Integrals	Nov	7	8	9	10	11	
				7.4, 7.5, 7.7		7.5, 7.7	Veterans Day Holiday		
Further Applications	8.1	Are Length	Wk7		Quiz 7.4		Quiz 7.5, 7.7		
	10.2	Parametric arclength / Area	Nov	21	22	23	24	25	
	8.2	Area of a Surface of Revolution	Wk8	7.8,	7.8, 8.1, 10.2		8.2		
	8.3	Applications to Physics and Engineering	Nov	21	Quiz 7.8		Quiz 8.1, 10.2	last day to drop w/W	
	8.5	Probability			8.2, 8.3		Thanksgiving	Thanksgiving	
				Quiz 8.3					
Differential Equations	9.1	Modeling with Differential Equations	Wk9		Quiz 8.3				
	9.2	Direction Fields and Euler's Method	Nov	28	29	30	1	2	
	9.3	Separable Equations and Apps	Dec		8.5, Exam 3		8.5		
<p>All homework assignments and due dates are listed on WebAssign.</p> <p>These are the least number of exercises you need to do. If you don't master the material well after doing WebAssign, work with more of the similar problems in the text.</p>				Wk10		2:30 – 3:30p		Quiz 8.5	
				Dec	5	6	7	8	9
				Wk11		9.1, 9.2, 9.3		9.3	
				Dec	12	13	14	15	16
				Wk12		Final 1:45-3:45 pm HW due 11:59p			

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.

Office Hours:

Zoom

W,TH

01:00 PM

02:40 PM