

**COURSE:** Math 1B-13, CRN 38553  
**DAY:** TuTh 11:00a-1:15p  
**Room:** E33  
**ZOOM OFFICE HOUR:** MW 10:00 -11:40 am. Link: <https://fhda-edu.zoom.us/j/95244405559>  
**OFFICE NUMBER:** S76e

**QUARTER:** Winter 2024  
**INSTRUCTOR:** Millia Ison  
**EMAIL:** [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, 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: $\geq 93\%$ , 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 Tuesday March 26, 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. 12:45 – 1:15 pm each meeting. **NO EXTENSION.** Absent will be counted as 0. There are 19 quizzes this quarter. 3 lowest scores will be dropped.

**EXAM POINTS:** 50 points each. 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. March 26, Tuesday, 11:30a – 1:30p. 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, Jan. 21 --- Last day to drop without grade on your record.  
Friday, Mar. 1 --- Last day to drop with a "W".

Student is responsible to withdraw from the class. The last day for you to withdraw is **March 1.** After that day, you will receive a grade.

Text: Stewart 9<sup>th</sup> edition

MATH 1B-13 Winter 2024 Calendar

TuTh 11:00a-1:15p

Chapter	SEC	Topics		Monday	Tuesday	Wednesday	Thursday	Friday	
Integrals	5.1	Areas and Distances	Jan	8	9	10	11	12	
	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	Jan	15	16	17	18	19	
	5.5	The Substitution Rule	Wk2	MLKing's Birthday	5.4, 5.5, 6.1		6.1	Quiz 6.1	
Appendix G Applications of Integrals	6.1	Areas Between Curves	Jan	22	23	24	25	26	
	6.2	Volumes	Wk3		6.2, Exam 1		6.2		
	6.3	Volume by Cylindrical Shells			12:15 – 1:15 p		Quiz 6.2		
	6.4	Work	Jan	29	30	31	1	2	
	6.5	Average Value of a Function	Wk4		6.3, 6.4, 6.5		6.4, 6.5	Quiz 6.4	
Techniques of Integration	7.1	Integration by Parts	Feb	5	6	7	8	9	
	7.2	Trigonometric Integrals	Wk5		7.1, 7.2		7.2		
	7.3	Trigonometric Substitution			Quiz 7.1		Quiz 7.2		
	7.4	Integration of Rat'l Funct'ns by Partial Fractions	Feb	12	13	14	15	16	
	7.5	Strategy for Integration	Wk6		7.3, Exam 2		7.3	Lincoln's Birthday	
	7.7	Approximate Integration			12:15 – 1:15 p		Quiz 7.3		
	7.8	Improper Integrals	Feb	19	20	21	22	23	
Further Applications	8.1	Are Length	Wk7	Washington's Birthday	7.4		7.5, 7.7	Quiz 7.5, 7.7	
	10.2	Parametric arclength / Area	Feb	26	27	28	29	1	
	8.2	Area of a Surface of Revolution	Wk8	7.8,	7.8,		8.1,10.2	Quiz 8.1,10.2	last day to drop w/W
	8.3	Applications to Physics and Engineering			Quiz 7.8				
	8.5	Probability	Mar	4	5	6	7	8	
Differential Equations	9.1	Modeling with Differential Equations	Wk9		8.2		8.3	Quiz 8.3	
	9.2	Direction Fields and Euler's Method	Mar	11	12	13	14	15	
	9.3	Separable Equations and Apps	Dec		8.5, Exam 3		8.5		
	All homework assignments and due dates are listed on WebAssign.			Wk10		12:15 – 1:15 p		Quiz 8.5	
				Mar	18	19	20	21	22
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.			Wk11		9.1, 9.2, 9.3		9.3	Quiz 9.3	
			Mar	25	26	27	28	29	
			Wk12		Final 11:30a-1:30p 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:**

M,W 10:00 AM 11:40 AM Zoom