

**COURSE:** Math 1B-15Z, CRN 27497

**QUARTER:** Fall 2023

**Online:** MW 4:00p – 6:15p

**INSTRUCTOR:** Millia Ison

**ONLINE ZOOM MEETING:** <https://fhda-edu.zoom.us/j/81415885089>

**ZOOM OFFICE HOUR:** TuTh 4:30 -6:10 pm. Link: <https://fhda-edu.zoom.us/j/95244405559>

**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, quizzes, and exams are on Web Assign.

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

**GRADING:**

Homework ----160 points

Quizzes -----80 points

3 midterms --- 150 points

Final exam ---- 110 points

Total ----- 500 points

A:  $\geq 93\%$ , 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 - 399 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 basis. However, all homework is due on Tue. December 12, 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. 5:45 – 6:15 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. **No make-up midterm exams.** Dates are listed on the next page. 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. See Calendar next page for exam dates.

**FINAL EXAM:** 110 points. **Dec 13, Wednesday, 4 – 6 p.** 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. 8 --- Last day to drop without grade on your record.  
Friday, Nov. 17 --- Last day to drop with a "W".

Student is responsible to withdraw from the class. The last day for you to withdraw is **Nov. 17.** After that day, you will receive a grade.

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

MATH 1B-15Z Fall 2023 Calendar

MW 4 – 6:15 pm online Zoom

Chapter	SEC	Topics		Monday	Tuesday	Wednesday	Thursday	Friday
Integrals	5.1	Areas and Distances	Sept	25	26	27	28	29
	5.2	The Definite Integral		5.1, 5.2		5.3		
	5.3	The Fundamental Theorem of Calculus	Wk1	Quiz 5.2		Quiz 5.3		
	5.4	Indefinite Integrals & the Net Change Thm	Oct	2	3	4	5	6
	5.5	The Substitution Rule	Wk2	5.4, 5.5, Quiz 5.5		6.1 Quiz 6.1		
Appendix G Applications of Integrals	6.1	Areas Between Curves	Oct	9	10	11	12	13
	6.2	Volumes		Review		6.2		
	6.3	Volume by Cylindrical Shells	Wk3	Exam 1 5 – 6 p		Quiz 6.2		
	6.4	Work	Oct	16	17	18	19	20
	6.5	Average Value of a Function	Wk4	6.3, 6.4 Quiz 6.3		6.4, 6.5 Quiz 6.4		
Techniques of Integration	7.1	Integration by Parts	Oct	23	24	25	26	27
	7.2	Trigonometric Integrals		7.1		7.2		
	7.3	Trigonometric Substitution	Wk5	Quiz 7.1		Quiz 7.2		
	7.4	Integration of Rat'l Funct'ns by Partial Fractions	Oct	30	31	1	2	3
	7.5	Strategy for Integration	Nov	Review		7.3		
	7.7	Approximate Integration	Wk6	Exam 2 5 – 6 p		Quiz 7.3		
	7.8	Improper Integrals	Nov	6	7	8	9	10
			Wk7	7.4 Quiz 7.4		7.5, 7.7 Quiz 7.5, 7.7		Veteran's day Holiday
Further Applications	8.1	Are Length						
	10.2	Parametric arclength / Area	Nov	13	14	15	16	17
	8.2	Area of a Surface of Revolution	Wk8	7.8 Quiz 7.8		8.1,10.2 Quiz 8.1,10.2		last day to drop w/W
	8.3	Applications to Physics and Engineering	Nov	20	21	22	23	24
	8.5	Probability		8.2		8.3	Thanksgiving	Thanksgiving
Differential Equations	9.1	Modeling with Differential Equations	Wk9	Quiz 8.2		Quiz 8.3		
	9.2	Direction Fields and Euler's Method	Nov	27	28	29	30	1
	9.3	Separable Equations and Apps	Dec	Review		8.5		
			Wk10	Exam 3 5 – 6 p		Quiz 8.5		
All homework assignments and due dates are listed on WebAssign.  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.			Dec	4	5	6	7	8
			Wk11	9.1, 9.2 Quiz 9.1, 9.2		9.3 Quiz 9.3		
			Dec	11	12	13	14	15
			Wk12	Exam week <b>No class</b>	HW Due: 11:59p	Final 4 - 6 pm		

**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:**

T,TH 04:30 PM 06:10 PM Zoom