

**COURSE:** Math 1B-53Z, CRN 41838

**DAY:** online

**Exam Time:** Tuesdays 6:00 – 7:30 p

**EMAIL:** [isonmillia@fhda.edu](mailto:isonmillia@fhda.edu)

**OFFICE HOUR :** MWTuTh, 12:00 -1:00 pm by [zoom](#). Here is the link:

<https://fhda-edu.zoom.us/j/95413984049> , Meeting ID: 954 1398 4049

**COURSE PREREQUISITES:** Math 1A, or equivalent course with a grade "C" or better.

**TEXT:** Calculus: Early Transcendentals, by James Stewart, 8th edition.

**QUARTER:** Spring 2021

**INSTRUCTOR:** Millia Ison

**Final Exam:** Tue. 6/22 6:00 – 8:00 p

**OFFICE NUMBER:** S76e

**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

2 Exam Reviews--60 points

2 midterms --- 100 points

Final exam ---- 100 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 - 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 June 22, 11:59 pm.** **No Extension under any circumstances.** A total point on WebAssign is 703 (subject to change). Out which, 693 points are required (subject to change). If you have 693, you earn 160 points (full credit) toward your grade. If you have total of 703, then  $703/693 \approx 1.01$ , that is 101%, ,  $101\% \times 160 \approx 162$  which is 2 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), **due Sundays 11:59 pm**, available 1 week before due. **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 REVIEW POINTS:** 30 points each. **Due 11:59 pm on the Exam day.** **No Extension**

**EXAM POINTS:** 50 points each. **No make-up midterm exams.** 0 point for missed exam. For unusual circumstances, the percentage of your final exam score multiply by 50 will replace the exam score. See Calendar next page for exam dates.

**FINAL EXAM:** 100 points. **June 22, Tuesday, 6:00 – 8:00 p.**

Doing Final Exam Review is optional. 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, April. 18 --- Last day to drop without grade on your record.

Friday, May. 28 --- Last day to drop with a "W".

Student is responsible to withdraw from the class. The last day for you to withdraw is May. 28.

After that day, you will receive a grade.

Chapter	SEC	Topics		Monday	Tuesday	Wednesday	Thursday	Friday
Integrals	5.1	Areas and Distances	April	5	6	7	8	9
	5.2	The Definite Integral	Wk1	Follow canvas week 1 module to learn 5.1, 5.2 and 5.3. Do homework of these sections and complete Quiz 5.2 and Quiz 5.3				
	5.3	The Fundamental Theorem of Calculus						
	5.4	Indefinite Integrals and the Net Change Thm	April	12	13	14	15	16
	5.5	The Substitution Rule	Wk2	Follow canvas week 2 module to learn 5.4, 5.5 and 6.1. Do homework of these sections and complete Quiz 5.5 and Quiz 6.1				
Appendix G Applications of Integrals	6.1	Areas Between Curves	April	19	20	21	22	23
	6.2	Volumes	Wk3	Follow canvas week 3 module to learn 6.2 and 6.3. Do homework of these sections and complete Quiz 6.2 and Quiz 6.3				
	6.3	Volume by Cylindrical Shells						
	6.4	Work	April	26	27	28	29	30
	6.5	Average Value of a Function	Wk4	Study Exam 1 Rv	Exam 1 6:00 –7:30 p Exam 1 Rv Due 11:59p	Follow week 4 module to learn 6.4, do homework, and complete Quiz 6.4		
Techniques of Integration	7.1	Integration by Parts	May	3	4	5	6	7
	7.2	Trigonometric Integrals	Wk5	Follow canvas week 5 module to learn 6.5, 7.1 and 7.2, do homework, and complete Quiz 7.1 and Quiz 7.2				
	7.3	Trigonometric Substitution						
	7.4	Integration of Rat'l Funct'ns by Partial Fractions	May	10	11	12	13	14
	7.5	Strategy for Integration	Wk6	Follow canvas week 6 module to learn 7.3 and 7.4, do homework and complete Quiz 7.3 and Quiz 7.4				
	7.7	Approximate Integration						
	7.8	Improper Integrals	May	17	18	19	20	21
Further Applications	8.1	Are Length	Wk7	Follow canvas week 7 module to learn 7.5, 7.7 and 7.8 Complete Quiz 7.5, 7.7 and Quiz 7.8				
	10.2	Parametric arclength						
	8.2	Area of a Surface of Revolution	May	24	25	26	27	28
	8.3	Applications to Physics and Engineering	Wk8	Follow canvas week 8 module to learn 8.1, 10.2 and 8.2 do homework. Complete Quiz 8.1, 10.2 and Quiz 8.2				
	8.5	Probability						
Differential Equations	9.1	Modeling with Differential Equations	June	31	1	2	3	4
	9.2	Direction Fields and Euler's Method	June	Memorial Holiday Follow canvas week 9 module to learn 8.2 and 8.3, do homework. Complete Quiz 8.3				
	9.3	Separable Equations	June	7	8	9	10	11
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 after doing WebAssign, work with more of the similar problems in the text.			Wk10	Study Exam 2 Rv.	Exam 2 6:00 –7:30 p Exam 2 Rv Due 11:59p	Follow week 10 module to learn 8.5, do homework, Complete Quiz 8.5		
				June	14	15	16	17
			Wk11	Follow canvas week 11 module to learn 9.1, 9.2 and 9.3, do homework. Complete Quiz 9.1, 9.2 and Quiz 9.3				
				June	21	22	23	24
Wk12	Final 6 – 8 pm HW due 11:59 p							



**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.