

COURSE: Math 1B-61Z Calculus

CRN: 13670

DAY: TBA

Email: isonmillia@fhda.edu

OFFICE HOUR: By appointment. Zoom Link: <https://fhda-edu.zoom.us/j/95244405559>

QUARTER: Summer 2024

INSTRUCTOR: Millia Ison

OFFICE PHONE: 864-5659

OFFICE NUMBER: S76E

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 -180 points, 36%	A: $\geq 93\%$, 465 - 500 pts	C+: 76% - 79 % , 380 - 399 pts
Quizzes - 80 points, 16%	A- : 90% - 92 % , 450 - 464 pts	C: 70 % - 75 % , 350 - 379 pts
2 midterms -120 points, 24%	B+: 87% - 89 % , 435 - 449 pts	D: 60 % - 69 % , 300 - 349 pts
Final exam -120 points, 24%	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 regularly. However, all homework is due Wednesday, August 7, 11:59 pm. No Extension under any circumstances. A total point on WebAssign is 692 (subject to change). Out of which, 677 points are required (subject to change). If you have 677, you earn 180 points (full credit) toward your grade. If you have total of 687, then $687/677 \approx 1.01477$, that is 101.477%, $101.477\% \times 180 \approx 183$ which is 3 points extra credit. The total amount of the possible extra credit will be decided after the final exam.

QUIZ POINTS: 5 points each. 4 quizzes each week, due Sundays 11:59 pm, available 7 days before due. You need to finish quizzes on or before Thursdays. Consider Friday and weekends are the extension if you have issues doing quizzes during weekdays. **NO EXTENSION under any circumstances beyond the deadline on WebAssign.** If a deadline is missed, you get 0 for the quiz. There are 19 quizzes this session. 3 lowest scores will be dropped.

EXAM POINTS: 60 points each. 7/16, and 7/31, 6:30 – 8:00 pm. Dates are also listed on the calendar on the next page. No make-up midterm exams. 0 point for missed exam. For unusual circumstances, you must contact me before or on the exam day. The percentage of your final exam score multiplied by 50 will replace the exam score.

FINAL EXAM: 120 points. August 8, 6:30 pm – 8:30 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 3 --- Last day to drop without grade on your record.

Wednesday, July 31 --- Last day to drop with a "W".

The student is responsible to withdraw from the class. The last day for you to withdraw is May 31. After that day, you will receive a grade.

Math 1B-61Z Instructor: Ison Summer 2024 Calendar Online

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	5.4, 5.5	Holiday
5.3	The Fundamental Theorem of Calculus		Quiz 5.2	Quiz 5.3	Quiz 5.5	
5.4	Indefinite Integrals and the Net Change Theorem	July	8	9	10	11
5.5	The Substitution Rule		6.1	6.1, 6.2	6.2, 6.3	6.4
6.1	Areas Between Curves		Quiz 6.1	Quiz 6.2	Quiz 6.3	Quiz 6.4
6.2	Volume	July	15	16	17	18
6.3	Volume by Cylindrical Shells		6.5, 7.1	Exam 1: 5.1 – 6.5	7.2	7.3
6.4	Work		Quiz 7.1	6:30 p – 8:00 p	Quiz 7.2	Quiz 7.3
6.5	Average Value of a Function	July	22	23	24	25
7.1	Integration by Parts		7.4	7.5, 7.7	7.7, 7.8	8.1, 10.2
7.2	Trigonometric Integrals		Quiz 7.4	Quiz 7.5, 7.7	Quiz 7.8	Quiz 8.1,10.2
7.3	Trigonometric Substitution	July	29	30	31	1
7.4	Integration of Rat'l Funct'ns by Partial Fractions	Aug	8.2	8.3	Exam 2: 7.1 – 8.3	8.5, 9.1
7.5	Strategy for Integration		Quiz 8.2	Quiz 8.3	6:30 p – 8:00 p	Quiz 8.5
7.7	Approximate Integration	Aug	5	6	Review 7	8
7.8	Improper Integrals		9.2, 9.3	9.3	HW, Q9.1,9.2, Q9.3	Final: 5.1 – 9.3
8.1	Are Length		Quiz 9.1, 9.2	Quiz 9.3	Due 11:59p	6:30p – 8:30p
10.2	Arc length and Area of Parametric Equations/					
8.2	Area of a Surface of Revolution					
8.3	Applications to Physics and Engineering					
8.5	Probability					
9.1	Modeling with Differential Equations					
9.2	Direction Fields and Euler's Method					
9.3	Separable Equations					

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: