

Course Schedule: This is the most up-to-date schedule for lecture topics (revised April 6, 2023). This schedule (except for test dates) is subject to change as the course progresses. For your reference, the [original schedule](#) (posted on the first day of class) is available on the [course website](#). Numbers such as “1.3” refer to sections in your text.

Lecture	Day	Date	Reading	Topic	Test/Quiz/Hwk
1	Mon	Jan. 9	0.1–0.3	Review of Calc I	
2	Wed	Jan. 11	0.4–0.6	Review of Calc I (cont'd)	
3	Fri	Jan. 13	1.1	Arc length	
	Mon	Jan. 16		NO CLASS (MLK Jr Day)	
4	Wed	Jan. 18	1.2	Average value of a function	Hwk 1-18/Quiz 1
5	Fri	Jan. 20	1.3.1	Work	
6	Mon	Jan. 23	1.3.2	Force due to hydrostatic pressure	Hwk 1-23/Quiz 2
7	Wed	Jan. 25	1.3.3	Centers of mass	
8	Fri	Jan. 27	1.3.3	Centers of mass (cont'd) & Review	
	Mon	Jan. 30		TEST 1	TEST 1 (Hwk 1-30)
9	Wed	Feb. 1	2.1	Trigonometric integrals	
10	Fri	Feb. 3	2.2	Trig. substitution	
11	Mon	Feb. 6	2.3	Partial Fractions	Hwk 2-6/Quiz 3
12	Wed	Feb. 8	2.3	Partial Fractions (cont'd)	
13	Fri	Feb. 10	2.4, 2.5	Using integral tables & Numerical integration	
14	Mon	Feb. 13	2.5	Numerical integration (cont'd)	Hwk 2-13/Quiz 4
15	Wed	Feb. 15	2.6	Improper integrals	
16	Fri	Feb. 17	3.1	Intro to differential equations (ODEs)	
17	Mon	Feb. 20	3.1	Introduction to ODEs (cont'd) & Review	Hwk 2-20
	Wed	Feb. 22		TEST 2	TEST 2
18	Fri	Feb. 24	3.1	Slope fields and Euler's Method	
19	Mon	Feb. 27	3.2	Separable ODEs & Orthogonal trajectories	Hwk 2-27/Quiz 5
20	Wed	Mar. 1	3.3	Applications of ODEs	
21	Fri	Mar. 3	3.4	Second-order homogeneous ODEs	
22	Mon	Mar. 6	3.4	Second-order homogeneous ODEs (cont'd)	Hwk 3-6/Quiz 6
23	Wed	Mar. 8	3.5	Second-order non-homogeneous ODEs	
24	Fri	Mar. 10	3.5	Second-order non-homogeneous ODEs (cont'd)	
	Mon	Mar. 13		NO CLASS (Spring Break)	
	Wed	Mar. 15		NO CLASS (Spring Break)	
	Fri	Mar. 17		NO CLASS (Spring Break)	
25	Mon	Mar. 20	3.6	Applications of 2nd-order ODEs	Hwk 3-20/Quiz 7
26	Wed	Mar. 22	4.1	Sequences	
27	Fri	Mar. 24	4.1	Sequences (cont'd) and review	
	Mon	Mar. 27	4.1	TEST 3	TEST 3 (Hwk 3-27)
28	Wed	Mar. 29	4.2	Series	
29	Fri	Mar. 31	4.2, 4.3	Series (cont'd) & Convergence tests	
30	Mon	Apr. 3	4.3	Convergence tests (cont'd)	Hwk 4-3/Quiz 8
31	Wed	Apr. 5	4.4	Alternating series	
32	Fri	Apr. 7	4.5	Absolute convergence	
33	Mon	Apr. 10	4.6	Power Series	Hwk 4-10/Quiz 9
34	Wed	Apr. 12	4.6, 4.7	Sequences/Series review and Power series (cont'd)	
35	Fri	Apr. 14	4.7, 4.8	Power series (cont'd) & Taylor Series	
	Mon	Apr. 17		TEST 4	TEST 4 (Hwk 4-17)
36	Wed	Apr. 19	4.8, 4.9	Taylor and Maclaurin series	
37	Fri	Apr. 21	4.9	Taylor and Maclaurin series (cont'd)	
38	Mon	Apr. 24		Catchup/review	Hwk 4-24/Quiz 10
	Fri	Apr. 28		FINAL EXAM , 8:30–11:00 a.m., usual room for students enrolled in 10:40 a.m. section	FINAL (section 003)
	Mon	May 1		FINAL EXAM , 8:30–11:00 a.m., usual room for students enrolled in 8:30 a.m. section	FINAL (section 001)
	Mon	May 1		FINAL EXAM , 12:00–2:30 p.m., usual room for students enrolled in 11:45 a.m. section	FINAL (section 004)