

MATH 142 FALL 2023 CALENDAR

Below is a rough schedule for the course. Some or all of the practice problems listed below may be assigned as homework at your instructor's discretion. Regardless, you should solve all of them to help you master the material.

	Week	Sections / Events	Practice Problems
1	9/6–9/8	Classes begin – Wed. 9/6 7.1 - Integration by Substitution	(7.1) 9, 19, 29, 33, 39, 59, 61, 65, 151, 160, 161
2	9/11–9/15	7.2 - Integration by Parts 7.4 - Algebraic Identities and Trig Substitutions	(7.2) 7, 11, 17, 26, 31, 39, 40, 43, 45, 46, 75, 91, 92 (7.4) 3, 7, 10, 14, 15, 19, 21, 33, 35, 37, 47, 51, 57, 65, 69, 71
3	9/18–9/22	7.4 (cont.)	
4	9/25–9/29	Drop deadline (no W on transcript) – Wed. 9/27 7.5 - Numerical Methods for Definite Integrals 7.6 - Improper Integrals 7.7 - Comparison of Improper Integrals	(7.5) 7, 11, 25, 26, 29, 33, 35, 50 (7.6) 1, 9, 11, 17, 18, 19, 23, 33, 35, 40 (7.7) 3, 5, 7, 9, 10, 11, 21, 22, 25, 29, 31, 37
5	10/2–10/6	7.7 (cont.) 8.1 - Areas and Volumes	(8.1) 1, 3, 7, 11, 15, 17, 33, 41, 45
6	10/9–10/13	Columbus Day (no classes) – Mon. 10/9 C-Day MAKEUP (Mon. classes meet) – Tues. 10/10 Exam 1 - Wed. Oct. 11, 6:30-8 PM, CBLs 100 8.2 - Applications to Geometry 8.3 - Area and Length in Polar Coordinates	(8.2) 1, 3, 13, 17, 23, 29, 31, 33, 35, 37, 51, 53, 54 (8.3) 1, 3, 5, 7, 11, 13, 15, 27, 29, 31, 35, 39
7	10/16–10/20	Drop deadline (W on transcript) – Wed. 10/18 8.3 (cont.) 8.4 - Density and Center of Mass 8.5 - Work	(8.4) 3, 5b, 9, 17, 27, 29, 34 (8.5) 13, 19, 21, 23, 42, 45
8	10/23–10/27	8.5 (cont.) 8.7/8.8 - Probability	(8.7) 12, 21abc, 25, 29, 39 (8.8) 4, 5, 6, 7abc, 13, 19
9	10/30–11/3	Exam 2 - Wed. Nov. 1, 6:30-8 PM, CBLs 100 9.1 - Sequences 9.2 - Geometric Series 9.3 - Convergence of Series	(9.1) 5, 11, 15, 20, 23, 25, 66 (9.2) 1, 3, 5, 13, 15, 19, 23, 25, 33, 39, 71, 72 (9.3) 3, 8, 13, 19, 28, 31, 51, 52
10	11/6–11/10	9.4 - Tests for Convergence	(9.4) 11, 13, 21, 25, 29, 33, 45, 47, 50, 79, 83, 85, 93, 125
11	11/13–11/17	9.4 (cont.) 9.5 - Power Series and Interval of Convergence	(9.5) 7, 9, 15, 21, 23, 27, 31, 38, 41, 45, 47
12	11/20–11/24	Thanksgiving Break (no classes) – Nov. 23-24 10.1 - Taylor Polynomials	(10.1) 3, 5, 13, 23, 41, 43, 49
13	11/27–12/1	Exam 3 - Wed. Nov. 29, 6:30-8 PM, CBLs 100 10.2 - Taylor Series 10.3 - Finding and Using Taylor Series	(10.2) 1, 2, 7, 13, 15, 21, 23, 29, 31, 49, 51, 63, 67 (10.3) 9, 11, 16, 25, 26, 35, 68, 70
14	12/4–12/8	10.4 - Error in Taylor Polynomial Approximations 11.1 - What is a Differential Equation? 11.2 - Slope Fields 11.3 - Euler's Method	(10.4) 1, 8, 18, 19, 20, 21 (11.1) 9, 11, 13, 25 (11.2) 1, 11, 13, 29 (11.3) 1, 5, 19
15	12/11–12/12	Classes end – Tues. 12/12 11.4 - Separation of Variables	(11.4) 1, 11, 21, 27, 29, 31