Math 142 Spring 2019 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 work through them all to help you master the material.

	Week	Sections / Events	Practice Problems
1	1/23–1/25	**Classes begin – Wed. 1/23** 7.1 - Integration by Substitution	(7.1) 9, 13, 19, 29, 33, 39, 59, 61, 63, 160, 161
2	1/28–2/1	7.1 (cont.) 7.2 - Integration by Parts	(7.2) 7, 11, 17, 27, 31, 39, 41, 43, 45, 47, 85, 86
3	2/4–2/8	7.4 - Algebraic Identities and Trig Substitutions	(7.4) 5, 12, 15, 21, 27, 31, 33, 35, 47, 52, 55, 61
4	2/11–2/15	**Drop deadline (no W) – Thurs. 2/14** 7.4 (cont.) 7.5 - Numerical Methods for Definite Integrals 7.6 - Improper Integrals	(7.5) 7, 11, 13, 22, 24, 29, 31 (7.6) 9, 11, 15, 17, 19, 21, 25, 35, 39
5	2/18–2/22	7.6 (cont.) 7.7 - Comparison of Improper Integrals 8.1 - Areas and Volumes	(7.7) 3, 5, 7, 9, 10, 11, 19, 21, 25, 29, 37 (8.1) 1, 3, 7, 11, 21, 39, 41
6	2/25–3/1	**Exam 1 – Thurs. 2/28, 6-7:30 PM, Chafee 271** 8.1 (cont.) 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 (8.3) 1, 3, 5, 7, 11, 13, 15, 25, 29, 31, 33, 37
7	3/4–3/8	**Drop deadline (W on transcript) – Wed. 3/6** 8.3 (cont.) 8.4 - Density and Center of Mass	(8.4) 3, 5b, 17, 24, 27, 31
Spring Break, 3/11 – 3/17			
8	3/18–3/24	8.5 - Applications to Physics 9.1 - Sequences	(8.5) 13, 19, 21, 23, 41, 44 (9.1) 5, 11, 15, 20, 23, 25, 65
9	3/25–3/29	**Exam 2 – Thurs. 3/28, 6-7:30 PM, Chafee 271** 9.2 - Geometric Series 9.3 - Convergence of Series 9.4 - Tests for Convergence	(9.2) 1, 3, 5, 13, 15, 21, 23, 25, 29, 35, 64, 65 (9.3) 3, 7, 11, 17, 27, 31, 49, 50 (9.4) 11, 13, 17, 21, 25, 29, 41, 46, 75, 79, 81, 87, 89, 123
10	4/1–4/5	9.4 (cont.)	
11	4/8–4/12	9.5 - Power Series and Interval of Convergence 10.1 - Taylor Polynomials	(9.5) 9, 15, 21, 23, 25, 30, 37 (10.1) 3, 5, 13, 21, 39, 45
12	4/15–4/19	10.2 - Taylor Series 10.3 - Finding and Using Taylor Series	(10.2) 1, 2, 7, 15, 21, 23, 29, 31, 47, 49, 61, 65 (10.3) 5, 9, 15, 25, 41, 61, 63
13	4/22–4/26	**Exam 3 – Thurs. 4/25, 6-7:30 PM, Chafee 271** 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, 19, 20 (11.1) 9, 11, 13, 25 (11.2) 1, 11, 21, 25 (11.3) 1, 5, 17
14	4/29–4/30	**Classes end – Tues. 4/30** 11.4 - Separation of Variables	(11.4) 1, 7, 13, 21, 23, 29