Math 142 Spring 2017 Calendar

Below is an approximate timetable for the course; your class may, at any point, be slightly behind or slightly ahead. 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	1/23–1/27	**Classes begin – Mon. 1/23** 7.1 - Integration by Substitution 7.2 - Integration by Parts	(7.1) 9, 13, 19, 27, 31, 37, 61 (7.2) 7, 11, 17, 25, 29, 39
2	1/30–2/3	7.3 - Tables of Integrals 7.4 - Algebraic Identities and Trig Substitutions	(7.3) 3, 59 (7.4) 5, 12, 15, 29, 33, 35, 37, 47, 51, 53
3	2/6–2/10	7.5 - Numerical Methods for Definite Integrals 7.6 - Improper Integrals	(7.5) 7, 11, 15, 23 (7.6) 9, 11, 17, 19, 21, 23, 27
4	2/13–2/17	**Drop deadline (no W on transcript) – Mon. 2/13** 7.7 - Comparison of Improper Integrals 8.1 - Areas and Volumes	(7.7) 3, 5, 7, 9, 15, 17, 23, 29, 33 (8.1) 1, 3, 7, 11, 35, 39
5	2/20–2/24	**Exam 1 – Th. 2/23, 6-7:30 PM, CBLS 100** **Presidents' Day (no class) – Mon. 2/20** 8.1 (cont.) 8.2 - Applications to Geometry	(8.2) 1, 3, 13, 19, 27, 29, 31, 33, 47
6	2/27–3/3	8.3 - Area and Length in Polar Coordinates 8.4 - Density and Center of Mass	(8.3) 1, 3, 5, 7, 11, 13, 15, 25, 29 31, 33 (8.4) 3, 5b, 17, 27, 29, 33
7	3/6–3/10	**Drop deadline (W on transcript) – Mon. 3/6** 8.5 - Applications to Physics 8.7 - Distribution Functions 8.8 - Probability, Mean, and Median	(8.5) 13, 15, 21, 23, 43 (8.7) 15, 21, 37 (8.8) 9, 17ab
	Spring Break, 3/13 − 3/19		
8	3/20–3/24	9.1 - Sequences 9.2 - Geometric Series 9.3 - Convergence of Series	(9.1) 5, 11, 17, 19, 23, 31, 41, 63 (9.2) 1, 3, 5, 13, 15, 21, 25, 43, 45 (9.3) 1, 7, 11, 17, 27, 33, 34
9	3/27–3/31	**Exam 2 – Th. 3/30, 6-7:30 PM, CBLS 100** 9.4 - Tests for Convergence 9.5 - Power Series and Interval of Convergence	(9.4) 9, 13, 17, 25, 35, 41, 45, 111, 113 (9.5) 9, 15, 23, 25, 37
10	4/3–4/7	9.5 (cont.) 10.1 - Taylor Polynomials 10.2 - Taylor Series	(10.1) 3, 5, 13, 17, 31, 35 (10.2) 1, 7, 13, 19, 21, 31, 33, 39, 47
11	4/10–4/14	10.2 (cont.) 10.3 - Finding and Using Taylor Series	(10.3) 5, 9, 13, 21, 33
12	4/17–4/21	**Exam 3 – Th. 4/20, 6-7:30 PM, CBLS 100** 10.4 - Error in Taylor Polynomial Approximation 10.5 - Fourier Series	(10.4) 1, 8, 13, 14 (10.5) 9, 10, 15
13	4/24–4/28	11.1 - What is a Differential Equation? 11.2 - Slope Fields 11.3 - Euler's Method	(11.1) 3, 5, 7, 15, 25 (11.2) 1, 7, 15, 23 (11.3) 5, 15
14	5/1–5/5	11.4 - Separation of Variables **Classes end – Mon. 5/1**	(11.4) 1, 3, 9, 17, 19, 25