

MTH142 Spring 2015 Calendar and Syllabus

The following calendar gives a timetable for the course. Your class may be slightly behind or ahead at any given time. Some of the problems may be done in class, others as homework. Your instructor will be more specific. You should work out all the problems given below.

	Week	Sections/Events/Exams	Homework Problems
1	Jan. 21 Jan. 23	First Day of Class, Wed. Jan 21 7.1 - Integration by Substitution	(7.1) 3,7,11,13,19,21,23,27,29,31,35,37,39,41, 57,61,67,128,129
2	Jan. 26 Jan. 30	7.2 - Integration by Parts 7.3 - Tables of Integrals 7.4 - Algebraic Identities and Trig Substitutions	(7.2) 3,5,9,11,15,17,21,27,29, 33-39 odd, 46,51,55 (7.3) 3,7,13,17,19,29 (7.4) 1-7 odd, 8-14 even, 15-19 odd
3	Feb. 2 Feb. 6	7.4 - Contd. 7.5 - Numerical Methods for Definite Integrals 7.6 - Improper Integrals	(7.4) 21-24, 31,35,39,43,48,49, 55-59 odd (7.5) 1-11 odd, 13,14,16,19-22 (7.6) 5-15 odd, 23-31 odd
4	Feb. 9 Feb. 13	Drop Deadline (no W on transcript) – Feb. 11 7.7 - Comparison of Improper Integrals 8.1 - Areas and Volumes	(7.7) 1-9 odd, 13-21 odd, 26 (8.1) 5-11, 13-18, 34
5	Feb. 16 Feb. 20	Exam I – Wednesday Feb 18, 6-7:30pm Feb 16 – President's Day, no class 8.2 - Applications to Geometry 8.3 - Area and Length in Polar Coordinates	(8.2) 5-11 odd, 18,19, 25-27, 41-45 (8.3) 1-7 odd, 17, 24,28,31
6	Feb. 23 Feb. 27	8.4 - Density and Center of Mass 8.5 - Applications to Physics	(8.4) 1,3,8,13,15,26,29 (8.5) 4,5,8,9,12,13-17 odd, 28-30
7	Mar. 2 Mar. 6	Drop Deadline (W on Transcript) – Mar. 4 8.7 - Distribution Functions 8.8 - Probability, Mean, and Median 9.1 - Sequences	(8.7) 1-9, 17,19,21,22 (8.8) 4,6,7,8,10 (9.1) 1-25 odd, 29-31, 41-45, 53
8	Mar. 9 Mar. 12	9.2 - Geometric Series 9.3 - Convergence of Series	(9.2) 9-17 odd, 19-27 odd, 34,40 (9.3) 5-11, 13-33 odd, 37
	Mar. 16 Mar. 22	Spring Break – no classes	
9	Mar. 23 Mar. 27	Exam II – Monday Mar. 23, 6-7:30pm TBA 9.4 - Tests for Convergence 9.5 - Power Series and Interval of Convergence	(9.4) 5-23 odd, 27-35 odd, 39-43 odd, 61-77 odd (9.5) 5-7, 11-15, 27-31
10	Mar. 30 Apr. 3	9.5 - Contd. 10.1 - Taylor Polynomials 10.2 - Taylor Series	(10.1) 1-9 odd, 13-19 odd, 22,29 (10.2) 1,5,7,9, 13-23 odd, 35-39 odd, 44
11	Apr. 6 Apr. 10	10.3 - Finding and Using Taylor Series 10.4 - Error in Taylor Polynomial Approximation	(10.3) 1-11 odd, 12,14 (10.4) 1-6, 10,11
12	Apr. 13 Apr. 17	11.1 - What is a Differential Equation? 11.2 - Slope Fields 11.3 - Euler's Method	(11.1) 1-5, 7,15,16,19,20 (11.2) 3-8,17,18 (11.3) 1,5,7,8
13	Apr. 20 Apr. 24	Exam III – Wednesday Apr. 22, 6-7:30pm TBA 11.4 - Separation of Variables 11.5 - Growth and Decay	(11.4) 1-5 odd, 9-15 odd, 21-25 odd, 45 (11.5) 1,3,7,8,10,15
14	Apr. 27 Apr. 29	11.7 - The Logistic Model Wednesday April 29, classes end.	(11.7) 1,2,4,7,23