

MTH142 Fall 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	Sept. 9 Sept. 11	First Day of Class Wed. Sept. 9 7.1 - Integration by Substitution 7.2 - Integration by Parts	(7.1) 3-41 odd, 47-78 odd, 128-129 (7.2) 3-29 odd, 33-39 odd, 46, 52-54
2	Sept. 14 Sept. 18	7.2 - Integration by Parts – contd. 7.3 - Tables of Integrals 7.4 - Algebraic Identities and Trig Substitutions	(7.3) 7-17, 29,33,35,47 (7.4) 1-7, 8-14, 15-23 odd 21-35 odd, 39-43, 55-64,71-73
3	Sept. 21 Sept. 25	7.5 - Numerical Methods for Definite Integrals 7.6 - Improper Integrals	(7.5) 1-11,13,16,19-22 (7.6) 5-13 odd, 23-31 odd, 34,38,39
4	Sept. 28 Oct. 2	Drop Deadline (no W on transcript) – Oct. 1 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	Oct. 5 Oct. 9	Exam I – Wed. Oct 7, 6-7:30pm CBLs 100 8.2 - Applications to Geometry 8.3 - Area and Length in Polar Coordinates	(8.2) 4, 5-11 odd, 25-27, 41-45, (8.3) 1-7 odd,17, 24-26, 29,31
6	Oct. 12 Oct. 16	Columbus day Mon. Oct. 13. - no classes 8.4 - Density and Center of Mass 8.5 - Applications to Physics	(8.4) 1,3,7,8, 13,15, 25-26,29 (8.5) 4-5,8,9,12,13-17 odd
7	Oct. 19 Oct. 23	Drop Deadline (W on Transcript) – Oct 21 8.7 - Distribution Functions 8.8 - Probability, Mean, and Median 9.1 - Sequences	(8.7) 1-9, 17,19,21,22 (8.8) 4-10 odd (9.1) 1-31 odd, 25-31, 41-46,53
8	Oct. 26 Oct. 30	9.2 - Geometric Series 9.3 - Convergence of Series 9.4 - Tests for Convergence	(9.2) 1-15 odd, 34,40,41,46 (9.3) 1-12, 13-33 odd, 37 (9.4) 4-23 odd, 27-35 odd, 39-43 odd, 61-77 odd
9	Nov. 2 Nov. 6	Exam II – Wed. Nov. 4, 6-7:30pm CBLs 100 9.5 - Power Series and Interval of Convergence	(9.5) 5-7,11-15, 27-31
10	Nov. 9 Nov. 13	10.1 - Taylor Polynomials 10.2 - Taylor Series	(10.1) 1-19 odd, 18,22,29,31 (10.2) 1-23 odd, 35-39 odd
11	Nov. 16 Nov. 20	10.3 - Finding and Using Taylor Series 10.4 - The Error in Taylor Polynomial Approximation	(10.3) 1-12, 14,16 (10.4) 1-6,10,11
12	Nov. 23 Nov. 27	11.1 - What is a Differential Equation? 11.2 - Slope Fields (No classes Thanksgiving Break Nov. 26 – Nov. 29)	(11.1) 1-5,15,16,19,20,22 (11.2) 3-4,5-8,17,18
13	Nov. 30 Dec. 4	11.3 - Euler's Method 11.4 - Separation of Variables	(11.3) 1-2,5,7,8 (11.4) 1-5 odd, 9-15 odd,21-25 odd, 34, 38, 45
14	Dec. 7 Dec. 11	Exam III – Wed. Dec 9, 6-7:30pm CBLs 100 11.5 - Growth and Decay 11.7 - The Logistic Model Fri., Dec. 11, classes end.	(11.5) 2,3,7,8,10,15,21 (11.7) 1,2,4,5,23

NOTE: notation like "3-9" means that all problems from 3 to 9 are to be done.