MTH142 Fall 2014 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. 3 | Sept. 5	First Day of Class Wed. Sept. 3 7.1 - Integration by Substitution 7.2 - Integration by Parts	(7.1) 3,7,11,13,19,21,23,27,29,31,35,37,39,41, 57,61,67,128,129 (7.2) 3,5,9,11,15,17,21,27,29, 33-39 odd, 46,51,55
2	Sept. 8 | Sept. 12	Gateway – Sept. 9, 6-7pm CBLS 100 7.3 - Tables of Integrals 7.4 - Algebraic Identities and Trig Substitutions	(7.3) 3,7,13,17,19,29 (7.4) 1-7 odd, 8-14 even, 15-19 odd, 21-24, 31,35,39,43,48,49, 55-59 odd
3	Sept. 15 | Sept. 19	7.5 - Numerical Methods for Definite Integrals 7.6 - Improper Integrals	(7.5) 1-11 odd, 13,14,16,19-22 (7.6) 5-15 odd, 23-31 odd
4	Sept. 22 | Sept. 26	Drop Deadline (no W on transcript) – Sept 24 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	Sept. 29 | Oct. 3	Exam I – Sept. 30, 6-7:30pm CBLS 100 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	Oct. 6 | Oct. 10	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	Oct. 13 | | | Oct. 17	Drop Deadline (W on Transcript) – Oct 15 Columbus day Mon. Oct. 13. - no classes 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	Oct. 20 | Oct. 24	9.2 - Geometric Series 9.3 - Convergence of Series 9.4 - Tests for Convergence	(9.2) 9-17 odd, 19-27 odd, 34,40 (9.3) 5-11, 13-33 odd, 37 (9.4) 5-23 odd, 27-35 odd, 39-43 odd, 61-77 odd
9	Oct. 27 | Oct. 31	Exam II – Oct. 28, 6-7:30pm CBLS 100 9.5 - Power Series and Interval of Convergence	(9.5) 5-7, 11-15, 27-31
10	Nov. 3 | Nov. 7	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	Nov. 10 | Nov. 14	Veteran's day Tues. Nov. 11 – no classes 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	Nov. 17 | Nov. 21	11.1 - What is a Differential Equation? 11.2 - Slope Fields	(11.1) 1-5, 7,15,16,19,20 (11.2) 3-8,17,18
13	Nov. 24 | Nov. 26	No classes Thanksgiving Break Nov. 27 – Nov. 30 11.3 - Euler's Method 11.4 - Separation of Variables	(11.3) 1,5,7,8 (11.4) 1-5 odd, 9-15 odd, 21-25 odd, 45
14	Dec. 1 | Dec. 5	Exam III – Dec. 2, 6-7:30pm CBLS 100 11.5 Growth and Decay 11.7 The Logistic Model Monday Dec. 8, classes end.	(11.5) 1,3,7,8,10,15 (11.7) 1,2,4,7,23

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