MTH 142 Fall 2016 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	9/7–9/9	**Classes begin – Wed. 9/7** 7.1 - Integration by Substitution	(7.1) 9, 13, 19, 27, 31, 37, 61
2	9/12–9/16	7.2 - Integration by Parts 7.3 - Tables of Integrals 7.4 - Algebraic Identities and Trig Substitutions	(7.2) 7, 11, 17, 25, 29, 39 (7.3) 3, 59 (7.4) 5, 12, 15, 29, 33, 35, 37, 47, 51, 53, 57, 59
3	9/19–9/23	7.4 (cont.) 7.5 - Numerical Methods for Definite Integrals	(7.5) 7, 11, 15, 23
4	9/26–9/30	**Drop deadline (no W on transcript) – Wed. 9/28** 7.6 - Improper Integrals 7.7 - Comparison of Improper Integrals	(7.6) 9, 11, 17, 19, 21, 23, 27 (7.7) 3, 5, 7, 9, 15, 17, 23, 29, 33
5	10/3–10/7	**Exam 1 – Th. 10/6, 6-7:30 PM, Beaupre 100** 8.1 - Areas and Volumes 8.2 - Applications to Geometry	(8.1) 1, 3, 7, 11, 35, 39 (8.2) 1, 3, 13, 19, 27, 29, 31, 33, 47
6	10/10–10/14	*Columbus Day; Mon. classes meet Wed. 10/12* 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, 5bc, 17, 27, 29, 33
7	10/17–10/21	**Drop deadline (W on transcript) – Wed. 10/19** 8.5 - Applications to Physics 8.7 - Distribution Functions	(8.5) 13, 15, 21, 23, 43 (8.7) 15, 21, 37
8	10/24–10/28	8.8 - Probability, Mean, and Median 9.1 - Sequences 9.2 - Geometric Series	(8.8) 9, 17ab (9.1) 5, 11, 17, 19, 23, 31, 41, 63 (9.2) 1, 3, 5, 13, 15, 21, 25, 43, 45
9	10/31–11/4	**Exam 2 – Th. 11/3, 6-7:30 PM, Beaupre 100** 9.3 - Convergence of Series 9.4 - Tests for Convergence	(9.3) 1, 7, 11, 17, 27, 33, 34 (9.4) 9, 13, 17, 25, 35, 41, 45, 111, 113
10	11/7–11/11	9.5 - Power Series and Interval of Convergence 10.1 - Taylor Polynomials	(9.5) 9, 15, 23, 25, 37 (10.1) 3, 5, 13, 17, 31, 35
11	11/14–11/18	10.2 - Taylor Series 10.3 - Finding and Using Taylor Series	(10.2) 1, 7, 13, 19, 21, 31, 33, 39, 47 (10.3) 5, 9, 13, 21, 33
12	11/21–11/25	10.3 (cont.) 10.4 - Error in Taylor Polynomial Approximation *Thanksgiving break 11/24-11/27 – no classes*	(10.4) 1, 8, 13, 14
13	11/28–12/2	**Exam 3 – Th. 12/1, 6-7:30 PM, Beaupre 100** 10.5 - Fourier Series 11.1 - What is a Differential Equation?	(10.5) 9, 10, 15 (11.1) 3, 5, 7, 15, 25
14	12/5–12/9	11.2 - Slope Fields 11.3 - Euler's Method 11.4 - Separation of Variables **Classes end – Mon. 12/12 (Fri. classes meet)**	(11.2) 1, 7, 15, 25 (11.3) 5, 15 (11.4) 3, 9, 17, 19, 25