

# MATH 142 FALL 2019 CALENDAR

Below is a rough schedule for the course. Some or all of the practice problems listed below may be assigned as homework; regardless, you should work through them all to help you master the material.

	Week	Sections / Events	Practice Problems
1	9/4-9/6	<b>Classes begin – Wed. 9/4</b> 7.1 - Integration by Substitution 7.2 - Integration by Parts	(7.1) 9, 13, 19, 29, 33, 39, 59, 61, 63, 160, 161 (7.2) 7, 11, 17, 27, 31, 39, 41, 43, 45, 47, 85, 86
2	9/9-9/13	7.2 (cont.) 7.4 - Algebraic Identities and Trig Substitutions	(7.4) 5, 12, 15, 21, 27, 31, 33, 35, 47, 52, 55, 61
3	9/16-9/20	7.4 (cont.) 7.5 - Numerical Methods for Definite Integrals	(7.5) 7, 11, 13, 22, 24, 29, 31
4	9/23-9/27	<b>Drop deadline (no W) – Thurs. 9/26</b> 7.6 - Improper Integrals 7.7 - Comparison of Improper Integrals	(7.6) 9, 11, 15, 17, 19, 21, 25, 35, 39 (7.7) 3, 5, 7, 9, 10, 11, 19, 21, 25, 29, 37
5	9/30-10/4	<b>Exam 1 – Wed. 10/2, 6:30-8 PM, Beaupre 100</b> 8.1 - Areas and Volumes 8.2 - Applications to Geometry	(8.1) 1, 3, 7, 11, 21, 39, 41 (8.2) 1, 3, 13, 17, 23, 29, 31, 33, 35, 37, 51
6	10/7-10/11	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, 33, 37 (8.4) 3, 5b, 9, 17, 24, 27, 31
7	10/14-10/18	<b>Columbus Day (no class) – Mon. 10/14</b> <b>Monday classes meet on Tues. 10/15</b> <b>Drop deadline (W on transcript) – Thurs. 10/17</b> 8.5 - Applications to Physics	(8.5) 13, 19, 21, 23, 41, 44
8	10/21-10/25	8.7 - Distribution Functions 8.8 - Probability, Mean, and Median 9.1 - Sequences	(8.7) 15, 21, 37 (8.8) 4, 5, 6, 7, 17 (9.1) 5, 11, 15, 20, 23, 25, 65
9	10/28-11/1	<b>Exam 2 – Wed. 10/30, 6:30-8 PM, Beaupre 100</b> 9.2 - Geometric Series 9.3 - Convergence of Series 9.4 - Tests for Convergence	(9.2) 1, 3, 5, 13, 15, 21, 23, 25, 29, 35, 64, 65 (9.3) 3, 7, 11, 17, 27, 31, 49, 50 (9.4) 11, 13, 17, 21, 25, 29, 41, 46, 75, 79, 81, 87, 89, 123
10	11/4-11/8	9.4 (cont.)	
11	11/11-11/15	9.5 - Power Series and Interval of Convergence 10.1 - Taylor Polynomials	(9.5) 9, 15, 21, 23, 25, 30, 37 (10.1) 3, 5, 13, 21, 39, 45
12	11/18-11/22	<b>Exam 3 – Wed. 11/20, 6:30-8 PM, Beaupre 100</b> 10.2 - Taylor Series 10.3 - Finding and Using Taylor Series	(10.2) 1, 2, 7, 13, 15, 21, 23, 29, 31, 47, 49, 61, 65 (10.3) 5, 9, 15, 25, 41, 61, 63
13	11/25-11/29	<b>Thanksgiving Break – Wed. through Fri.</b> 10.4 - Error in Taylor Polynomial Approximations	(10.4) 1, 8, 19, 20
14	12/2-12/6	10.5 - Fourier Series 11.1 - What is a Differential Equation? 11.2 - Slope Fields 11.3 - Euler's Method	(10.5) 5, 11, 15 (11.1) 9, 11, 13, 25 (11.2) 1, 11, 21, 25 (11.3) 1, 5, 17
15	12/9-12/10	11.4 - Separation of Variables <b>Classes end – Tues. 12/10</b>	(11.4) 1, 7, 13, 21, 23, 29