

# MATH 142 SPRING 2018 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.

	<b>Week</b>	<b>Sections / Events</b>	<b>Practice Problems</b>
<b>1</b>	1/22–1/26	<b>Classes begin – Mon. 1/22</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
<b>2</b>	1/29–2/2	7.3 - Tables of Integrals 7.4 - Algebraic Identities and Trig Substitutions	(7.4) 5, 12, 15, 27, 31, 33, 35, 47, 49, 55, 61, 63
<b>3</b>	2/5–2/9	7.4 (cont.) 7.5 - Numerical Methods for Definite Integrals 7.6 - Improper Integrals	(7.5) 7, 11, 13, 24, 25 (7.6) 9, 11, 15, 19, 21
<b>4</b>	2/12–2/16	<b>Drop deadline (no W) – Mon. 2/12</b> 7.6 (cont.) 7.7 - Comparison of Improper Integrals	(7.6) 23, 25, 29, 35 (7.7) 3, 5, 7, 9, 10, 11, 17, 19, 25, 31, 37, 41
<b>5</b>	2/19–2/23	<b>Exam 1 – Thurs. 2/22, 6-7:30 PM, Chafee 271</b> <b>Presidents' Day (no class) – Mon. 2/19</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, 51
<b>6</b>	2/26–3/2	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, 5b, 17, 24, 27, 31
<b>7</b>	3/5–3/9	<b>Drop deadline (W on transcript) – Mon. 3/5</b> 8.5 - Applications to Physics 8.7 - Distribution Functions 8.8 - Probability, Mean, and Median	(8.5) 13, 19, 21, 23, 41, 44 (8.7) 15, 21, 37 (8.8) 4, 5, 6, 7, 17
<b>Spring Break, 3/12 – 3/18</b>			
<b>8</b>	3/19–3/23	<b>Exam 2 – Thurs. 3/22, 6-7:30 PM, Chafee 271</b> 9.1 - Sequences 9.2 - Geometric Series 9.3 - Convergence of Series	(9.1) 5, 11, 15, 20, 23, 25, 65 (9.2) 1, 3, 5, 13, 15, 21, 23, 25 29, 35, 64, 65 (9.3) 1, 7, 11, 17, 27, 33, 34, 49, 50
<b>9</b>	3/26–3/30	9.3 (cont.) 9.4 - Tests for Convergence	(9.4) 11, 13, 17, 21, 25, 29, 41, 46, 75, 79, 81, 87, 89, 113, 123
<b>10</b>	4/2–4/6	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
<b>11</b>	4/9–4/13	10.2 - Taylor Series 10.3 - Finding and Using Taylor Series	(10.2) 1, 2, 7, 15, 21, 23, 29, 31, 47, 49, 61, 65 (10.3) 5, 9, 15, 25, 41, 61, 63
<b>12</b>	4/16–4/20	<b>Exam 3 – Thurs. 4/19, 6-7:30 PM, Chafee 271</b> 10.4 - Error in Taylor Polynomial Approximation 10.5 - Fourier Series	(10.4) 1, 8, 19, 20 (10.5) 9, 10, 15
<b>13</b>	4/23–4/27	11.1 - What is a Differential Equation? 11.2 - Slope Fields 11.3 - Euler's Method 11.4 - Separation of Variables	(11.1) 9, 11, 13, 25 (11.2) 1, 11, 21, 25 (11.3) 1, 5, 17 (11.4) 1, 7, 13, 21, 23, 29
<b>14</b>	4/30–5/4	<b>Classes end – Mon. 4/30</b> 11.4 (cont.)	