MATH 142 FALL 2018 CALENDAR

Below is a rough schedule for the course. 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.

7.1 - Integration by Substitution		Week	Sections / Events	Practice Problems
7.2 - Integration by Parts (7.2) 7, 11, 17, 27, 31, 39, 41, 43. 2 9/10-9/14 7.2 (cont.) (7.4) 5, 12, 15, 21, 27, 31, 39, 41, 43. 3 9/17-9/21 7.4 (cont.) (7.5) 7, 11, 13, 24, 25 7.5 - Numerical Methods for Definite Integrals 4 9/24-9/28 Drop deadline (no W) - Wed. 9/26 (7.6) 9, 11, 15, 17, 19, 21, 25, 35, 7.6 - Improper Integrals (7.7) 3, 5, 7, 9, 10, 11, 19, 21, 25, 35, 7.7 - Comparison of Improper Integrals (8.1) 1, 3, 7, 11, 21, 39, 41 (8.2) 1, 3, 13, 17, 23, 29, 31, 37, 41 5 10/1-10/5 Exam 1 - Tues. 10/2, 6-7:30 PM, CBLS 100 8.1 - Areas and Volumes 8.2 - Applications to Geometry (8.3) - Area and Length in Polar Coordinates 8.4 - Density and Center of Mass (8.4) 3, 5b, 17, 24, 27, 31 7 10/15-10/19 Drop deadline (W on transcript) - Wed. 10/17 (8.5) 13, 19, 21, 23, 41, 44 (8.7) 15, 21, 37 (8.8) 4, 5, 6, 7, 17 8.5 - Applications to Physics (8.7 - Distribution Functions (8.8 - Probability, Mean, and Median (8.9) 1, 5c, 21, 37 (8.8) 4, 5, 6, 7, 17 8 10/22-10/26 Exam 2 - Tues. 10/23, 6-7:30 PM, CBLS 100 (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) 7, 111, 72, 73, 33, 44, 95 (9.3) 7, 111, 72, 73, 33, 44, 95 (9.3) 7, 111, 72, 73, 33, 44, 95 (9.3) 7, 111, 72, 73, 33, 44, 95 (9.3) 7, 111, 72, 73, 33, 34, 49, 50 (9.4) 11, 13, 17, 21, 25, 29, 41, 44 (7.5) 11, 11/2-11/16 Veteran's Day (no class) - Mon. 11/12 (10.2) 1, 2, 7, 15, 21, 23, 25, 30, 37 (10.1) 3, 5, 13, 21, 39, 45 (10.2) - Taylor Series (10.3) - Finding and Using Taylor Series (10.3) 5, 9, 15, 25, 41, 61, 63	1	9/5-9/7	Classes begin – Wed. 9/5	(7.1) 9, 13, 19, 29, 33, 39, 59, 61, 63
2 9/10-9/14 7.2 (cont.) 7.4 - Algebraic Identities and Trig Substitutions 3 9/17-9/21 7.4 (cont.) 7.5 - Numerical Methods for Definite Integrals 4 9/24-9/28 Drop deadline (no W) - Wed. 9/26 7.6 - Improper Integrals 7.7 - Comparison of Improper Integrals 7.7 - Comparison of Improper Integrals 8.1 - Areas and Volumes 8.2 - Applications to Geometry 6 10/8-10/12 Columbus Day (no class) - Mon. 10/8 8.3 - Area and Length in Polar Coordinates 8.4 - Density and Center of Mass 7 10/15-10/19 Drop deadline (W on transcript) - Wed. 10/17 8.5 - Applications to Physics 8.7 - Distribution Functions 8.8 - Probability, Mean, and Median 8 10/22-10/26 Exam 2 - Tues. 10/23, 6-7:30 PM, CBLS 100 9 10/29-11/2 9.4 - Tests for Convergence 10 11/5-11/9 9.5 - Power Series and Interval of Convergence 10 1 11/12-11/16 Veteran's Day (no class) - Mon. 11/12 Monday classes meet on Tues. 11/13 10 11/5-11/16 Veteran's Day (no class) - Mon. 11/12 Monday classes meet on Tues. 11/13 10 11 11/12-11/16 Veteran's Day (no class) - Mon. 11/12 Monday classes meet on Tues. 11/13 10 10.3 - Finding and Using Taylor Series 10.3 - Finding and Using Taylor Series 10.3 - Finding and Using Taylor Series 10.4 (0.1) 5, 11, 15, 12, 12, 73, 13, 33, 35 17 (7.6) 9, 11, 15, 17, 19, 21, 25, 29, 11, 33, 5, 7, 9, 10, 11, 19, 21, 25, 29, 31, 37, 41 (8.2) 1, 3, 13, 17, 23, 29, 31, 33, 35 (8.3) 1, 3, 7, 11, 13, 15, 25, 29 31, 37, 51 (8.8) 1, 3, 7, 11, 13, 15, 25, 29 31, 33, 37 (8.8) 1, 3, 5, 7, 11, 13, 15, 25, 29 31, 33, 37 (8.8) 1, 3, 5, 7, 11, 13, 15, 21, 23, 25, 29, 35, 64, 65 (9.2) 1, 3, 5, 7, 11, 17, 27, 33, 34, 49, 50 (9.1) 5, 11, 15, 20, 23, 25, 65 (9.2) 1, 3, 5, 7, 11, 17, 27, 33, 34, 49, 50 (9.5) 9, 15, 21, 23, 25, 30, 37 (10.1) 3, 5, 13, 21, 23, 25, 30, 37 (10.1) 3, 5, 13, 21, 23, 25, 30, 37 (10.1) 3, 5, 13, 21, 23, 25, 31, 31, 23 (10.2) 1, 2, 7, 15, 21, 23, 29, 31, 47, 49, 61, 65 (10.3) 5, 9, 15, 25, 41, 61, 63			7.1 - Integration by Substitution	,
7.4 - Algebraic Identities and Trig Substitutions			7.2 - Integration by Parts	$ \left (7.2) \ 7, \ 11, \ 17, \ 27, \ 31, \ 39, \ 41, \ 43, \ 45 \right $
3 9/17-9/21 7.4 (cont.) 7.5 - Numerical Methods for Definite Integrals 7.5 - Numerical Methods for Definite Integrals 7.5 - Numerical Methods for Definite Integrals 7.6 - Improper Integrals 7.7 - Comparison of Improper Integrals 7.7 - Comparison of Improper Integrals 29, 31, 37, 41 5 10/1-10/5 Exam 1 - Tues. 10/2, 6-7:30 PM, CBLS 100 8.1 - Areas and Volumes 8.2 - Applications to Geometry 8.3 - Area and Length in Polar Coordinates 8.4 - Density and Center of Mass 8.4 - Density and Center of Mass 8.4 - Distribution Functions 8.5 - Applications to Physics 8.7 - Distribution Functions 8.8 - Probability, Mean, and Median 8 10/22-10/26 Exam 2 - Tues. 10/23, 6-7:30 PM, CBLS 100 (9.1) 5, 11, 15, 20, 23, 25, 65 9.1 - Sequences 9.2 - Geometric Series 9.3 - Convergence of Series 9.3 - Convergence of Series 9.4 - Tests for Convergence (9.4) 11, 13, 17, 21, 25, 29, 41, 44 75, 79, 81, 87, 89, 113, 123 10 11/5-11/9 9.5 - Power Series and Interval of Convergence (9.4) 11, 13, 17, 21, 25, 29, 41, 44 75, 79, 81, 87, 89, 113, 123 10 11/2-11/16 Veteran's Day (no class) - Mon. 11/12 Monday classes meet on Tues. 11/13 13, 47, 49, 61, 65 (10.3) 5, 9, 15, 25, 41, 61, 63 10.2 - Taylor Series 10.3 - Finding and Using Taylor Series (10.3) 5, 9, 15, 25, 41, 61, 63 (10.3) 5, 9	2	9/10-9/14	7.2 (cont.)	(7.4) 5, 12, 15, 21, 27, 31, 33, 35,
7.5 - Numerical Methods for Definite Integrals 4 9/24-9/28 Drop deadline (no W) - Wed. 9/26 (7.6) 9, 11, 15, 17, 19, 21, 25, 35, 7.6 - Improper Integrals (7.7) 3, 5, 7, 9, 10, 11, 19, 21, 25, 35, 7.7 - Comparison of Improper Integrals 29, 31, 37, 41 5 10/1-10/5 Exam 1 - Tues. 10/2, 6-7:30 PM, CBLS 100 (8.1) 1, 3, 7, 11, 21, 39, 41 8.1 - Areas and Volumes (8.2) 1, 3, 13, 17, 23, 29, 31, 33, 35, 37, 51 6 10/8-10/12 Columbus Day (no class) - Mon. 10/8 (8.3) 1, 3, 5, 7, 11, 13, 15, 25, 29 8.3 - Area and Length in Polar Coordinates (8.4) 2, 5b, 17, 24, 27, 31 7 10/15-10/19 Drop deadline (W on transcript) - Wed. 10/17 (8.5) 13, 19, 21, 23, 41, 44 8.5 - Applications to Physics (8.7) 15, 21, 37 8.8 - Probability, Mean, and Median (8.7) 15, 21, 37 8.8 - Probability, Mean, and Median (8.8) 1, 3, 5, 7, 11, 13, 15, 25, 29 9.1 - Sequences (9.2) 1, 3, 5, 13, 15, 21, 23, 25, 29, 35, 64, 65 9.2 - Geometric Series (9.3) 7, 11, 17, 27, 33, 34, 49, 50 9 10/29-11/2 9.4 - Tests for Convergence (9.4) 11, 13, 17, 21, 25, 29, 41, 44 75, 79, 81, 87, 89, 113, 123 10 11/5-11/9 9.5 - Power Series and Interval of Convergence (9.4) 11, 13, 17, 21, 25, 29, 41, 44 75, 79, 81, 87, 89, 113, 123 10 11/5-11/9 9.5 - Power Series and Interval of Convergence (9.4) 11, 13, 17, 21, 25, 29, 41, 44 75, 79, 81, 87, 89, 113, 123 10 11/5-11/9 9.5 - Power Series and Interval of Convergence (9.5) 9, 15, 21, 23, 25, 30, 37 10.1 11/12-11/16 Veteran's Day (no class) - Mon. 11/12 Monday classes meet on Tues. 11/13 10 2 - Taylor Series (10.3) 5, 9, 15, 25, 41, 61, 63 10.3 - Finding and Using Taylor Series			7.4 - Algebraic Identities and Trig Substitutions	47, 52, 55, 61
4 9/24-9/28 Drop deadline (no W) - Wed. 9/26 (7.6) 9, 11, 15, 17, 19, 21, 25, 35, 7.6 - Improper Integrals (7.7) 3, 5, 7, 9, 10, 11, 19, 21, 25, 29, 31, 37, 41 5 10/1-10/5 Exam 1 - Tues. 10/2, 6-7:30 PM, CBLS 100 (8.1) 1, 3, 7, 11, 21, 39, 41 8.1 - Areas and Volumes (8.2) 1, 3, 13, 17, 23, 29, 31, 33, 35, 37, 51 6 10/8-10/12 Columbus Day (no class) - Mon. 10/8 (8.3) 1, 3, 5, 7, 11, 13, 15, 25, 29 31, 33, 37 7 10/15-10/19 Drop deadline (W on transcript) - Wed. 10/17 (8.5) 13, 19, 21, 23, 41, 44 (8.7) 15, 21, 37 (8.8) 4, 5, 6, 7, 17 8.5 - Applications to Physics (8.7) - Distribution Functions (8.8) - Probability, Mean, and Median (8.7) 15, 21, 37 (8.8) 4, 5, 6, 7, 17 8 10/22-10/26 Exam 2 - Tues. 10/23, 6-7:30 PM, CBLS 100 (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) 7, 11, 17, 27, 33, 34, 49, 50 9 10/29-11/2 9.4 - Tests for Convergence (9.4) 11, 13, 17, 21, 25, 29, 41, 44 75, 79, 81, 87, 89, 113, 123 10 11/5-11/9 9.5 - Power Series and Interval of Convergence (9.4) 11, 13, 17, 21, 25, 29, 41, 44 75, 79, 81, 87, 89, 113, 123 10 11/5-11/9 9.5 - Power Series and Interval of Convergence (9.4) 11, 13, 17, 21, 25, 29, 41, 44 75, 79, 81, 87, 89, 113, 123 10 11/2-11/16 Veteran's Day (no class) - Mon. 11/12 (10.2) 1, 2, 7, 15, 21, 23, 29, 31, 37, 41 11 11/12-11/16 Veteran's Day (no class) - Mon. 11/12 (10.2) 1, 2, 7, 15, 21, 23, 29, 31, 37, 41 10 11/5-11/9 2.5 - Taylor Series (1.6) - Taylor	3	9/17-9/21	7.4 (cont.)	(7.5) 7, 11, 13, 24, 25
7.6 - Improper Integrals			7.5 - Numerical Methods for Definite Integrals	
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5 10/1-10/5 Exam 1 - Tues. 10/2, 6-7:30 PM, CBLS 100 (8.1), 3, 7, 11, 21, 39, 41 8.1 - Areas and Volumes 8.2 - Applications to Geometry (8.2), 3, 13, 17, 23, 29, 31, 33, 35, 37, 51 6 10/8-10/12 Columbus Day (no class) - Mon. 10/8 (8.3), 3, 5, 7, 11, 13, 15, 25, 29, 31, 33, 37 8.3 - Area and Length in Polar Coordinates 8.4 - Density and Center of Mass (8.4), 3, 5b, 17, 24, 27, 31 7 10/15-10/19 Drop deadline (W on transcript) - Wed. 10/17 (8.5), 13, 19, 21, 23, 41, 44 8.5 - Applications to Physics 8.7 - Distribution Functions (8.8), 4, 5, 6, 7, 17 8. 10/22-10/26 Exam 2 - Tues. 10/23, 6-7:30 PM, CBLS 100 (9.1), 5, 11, 15, 20, 23, 25, 65 9.1 - Sequences (9.2), 35, 64, 65 (9.2), 1, 3, 51, 31, 52, 12, 23, 25, 62 9.3 - Convergence of Series (9.3), 7, 11, 17, 27, 33, 34, 49, 50 9 10/29-11/2 9.4 - Tests for Convergence (9.4), 11, 13, 17, 21, 25, 29, 41, 44 9 10/29-11/2 9.5 - Power Series and Interval of Convergence (9.5), 9, 15, 21, 23, 25, 30, 37 10 11/5-11/9 9.5 - Power Series and Interval of Convergence (9.5), 9, 15, 21, 23, 25, 30, 37 10.1 - Taylor Polynomials (10.1), 3			7.6 - Improper Integrals	(7.7) 3, 5, 7, 9, 10, 11, 19, 21, 25,
8.1 - Areas and Volumes 8.2 - Applications to Geometry Columbus Day (no class) - Mon. 10/8 8.3 - Area and Length in Polar Coordinates 8.4 - Density and Center of Mass 7 10/15-10/19 Drop deadline (W on transcript) - Wed. 10/17 8.5 - Applications to Physics 8.7 - Distribution Functions 8.8 - Probability, Mean, and Median 8 10/22-10/26 Exam 2 - Tues. 10/23, 6-7:30 PM, CBLS 100 9 10/29-11/2 9.4 - Tests for Convergence 9 10/29-11/2 9.5 - Power Series and Interval of Convergence 10.1 - Taylor Polynomials 10 11/5-11/16 Veteran's Day (no class) - Mon. 11/12 Monday classes meet on Tues. 11/13 10.2 - Taylor Series 10.3 - Finding and Using Taylor Series (8.2) 1, 3, 13, 17, 23, 29, 31, 33, 35, 37, 51 (8.3) 1, 3, 5, 7, 11, 13, 15, 25, 29 31, 33, 37 (8.4) 3, 5b, 17, 24, 27, 31 (8.5) 13, 19, 21, 23, 41, 44 (8.7) 15, 21, 37 (8.8) 4, 5, 6, 7, 17 (8.8) 4, 5, 6, 7, 17 (8.9) 13, 13, 17, 24, 27, 31 (8.1) 1, 3, 5, 7, 11, 13, 15, 20, 29 31, 33, 37 (8.4) 3, 5b, 17, 24, 27, 31 (8.2) 1, 3, 13, 17, 23, 29, 31, 33, 35, 37, 51 (8.3) 1, 3, 5, 7, 11, 13, 15, 25, 29 31, 33, 37 (8.4) 3, 5b, 17, 24, 27, 31 (8.5) 13, 19, 21, 23, 41, 44 (8.7) 15, 21, 37 (8.8) 4, 5, 6, 7, 17 (8.8) 4, 5, 6, 7, 17 (8.8) 4, 5, 6, 7, 17 (8.9) 13, 13, 17, 22, 25, 29 31, 33, 37 (8.4) 3, 5b, 17, 24, 27, 31 (8.1) 1, 3, 5, 7, 11, 13, 15, 25, 29 (8.3) 1, 3, 5, 7, 11, 13, 15, 25, 29 (8.4) 3, 5b, 17, 24, 27, 31 (8.5) 13, 19, 21, 23, 41, 44 (8.7) 15, 21, 37 (8.8) 4, 5, 6, 7, 17 (8.8) 4, 5, 6, 7, 17 (8.9) 13, 13, 33, 37 (8.4) 3, 5b, 17, 24, 27, 31 (8.2) 1, 3, 513, 15, 21, 23, 24, 44 (8.7) 15, 21, 37 (8.8) 4, 5, 6, 7, 17 (8.8) 4, 5, 6, 7, 17 (8.9) 13, 13, 33, 37 (8.4) 3, 5b, 17, 24, 27, 31 (8.9) 13, 13, 13, 17, 21, 25, 29 (8.9) 13, 13, 13, 17, 21, 25, 29 (8.9) 13, 13, 13, 17, 21, 25, 29 (8.9) 13, 13, 13, 17, 21, 25, 29 (8.9) 13, 13, 13, 17, 21, 25, 29 (8.9) 13, 13, 13, 17, 21, 25, 29 (8.9) 13, 13, 13, 17 (8.9) 14, 49 (8.7) 15, 21, 31, 31, 17 (8.9) 14, 49 (8.7) 15, 21, 31, 31, 31 (8.9) 14, 49 (8.7) 15, 21, 31, 31, 31 (8.9) 14, 49 (8.7) 15, 21, 31 (8.9			7.7 - Comparison of Improper Integrals	29, 31, 37, 41
8.2 - Applications to Geometry 35, 37, 51 6 10/8-10/12 Columbus Day (no class) - Mon. 10/8	5	10/1-10/5	Exam 1 – Tues. 10/2, 6-7:30 PM, CBLS 100	$(8.1)\ 1,\ 3,\ 7,\ 11,\ 21,\ 39,\ 41$
6 10/8-10/12 Columbus Day (no class) – Mon. 10/8			8.1 - Areas and Volumes	, , ,
8.3 - Area and Length in Polar Coordinates 8.4 - Density and Center of Mass 7			8.2 - Applications to Geometry	35, 37, 51
8.4 - Density and Center of Mass 7 10/15-10/19	6	10/8-10/12	Columbus Day (no class) – Mon. 10/8	(8.3) 1, 3, 5, 7, 11, 13, 15, 25, 29
7 10/15-10/19 Drop deadline (W on transcript) – Wed. 10/17 (8.5) 13, 19, 21, 23, 41, 44 8.5 - Applications to Physics (8.7) 15, 21, 37 8.7 - Distribution Functions (8.8) 4, 5, 6, 7, 17 8.8 - Probability, Mean, and Median (9.1) 5, 11, 15, 20, 23, 25, 65 9.1 - Sequences (9.2) 1, 3, 5, 13, 15, 21, 23, 25, 29, 35, 64, 65 9.2 - Geometric Series (9.3) 7, 11, 17, 27, 33, 34, 49, 50 9 10/29-11/2 9.4 - Tests for Convergence (9.4) 11, 13, 17, 21, 25, 29, 41, 44 75, 79, 81, 87, 89, 113, 123 10 11/5-11/9 9.5 - Power Series and Interval of Convergence (9.5) 9, 15, 21, 23, 25, 30, 37 10 11/12-11/16 Veteran's Day (no class) - Mon. 11/12 (10.2) 1, 2, 7, 15, 21, 23, 29, 31, 47, 49, 61, 65 10.2 - Taylor Series (10.3) 5, 9, 15, 25, 41, 61, 63 10.3 - Finding and Using Taylor Series (10.3) 5, 9, 15, 25, 41, 61, 63			8.3 - Area and Length in Polar Coordinates	, ,
8.5 - Applications to Physics 8.7 - Distribution Functions 8.8 - Probability, Mean, and Median 8			8.4 - Density and Center of Mass	(8.4) 3, 5b, 17, 24, 27, 31
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10.1 - Taylor Polynomials (10.1) 3, 5, 13, 21, 39, 45 11	10	11/5-11/9	9.5 - Power Series and Interval of Convergence	
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10.3 - Finding and Using Taylor Series		, ,	Monday classes meet on Tues. 11/13	, , ,
			10.2 - Taylor Series	$(10.3)\ 5,\ 9,\ 15,\ 25,\ 41,\ 61,\ 63$
10 11/10 11/00 MI 1 1 1 D 1 W 1 II			10.3 - Finding and Using Taylor Series	
12 11/19–11/23 Thanksgiving Break – Wed. through Fri.	12	11/19-11/23	Thanksgiving Break – Wed. through Fri.	
10.3 (cont.)			10.3 (cont.)	
13 11/26–11/31 Exam 3 – Tues. 11/27, 6-7:30 PM, CBLS 100 (10.4) 1, 8, 19, 20	13	11/26-11/31	Exam 3 – Tues. 11/27, 6-7:30 PM, CBLS 100	(10.4) 1, 8, 19, 20
10.4 - Error in Taylor Polynomial Approximations (11.1) 9, 11, 13, 25			10.4 - Error in Taylor Polynomial Approximations	
11.1 - What is a Differential Equation? (11.2) 1, 11, 21, 25			11.1 - What is a Differential Equation?	, ,
11.2 - Slope Fields (11.3) 1, 5, 17			11.2 - Slope Fields	(11.3) 1, 5, 17
11.3 - Euler's Method			11.3 - Euler's Method	
14 12/3-12/7 11.4 - Separation of Variables (11.4) 1, 7, 13, 21, 23, 29	14	12/3 - 12/7	11.4 - Separation of Variables	, , , , , , , , , , , , , , , , , , , ,
11.5 - Growth and Decay (11.5) 1, 2, 7, 9, 11, 12, 23(a)			11.5 - Growth and Decay	(11.5) 1, 2, 7, 9, 11, 12, 23(a)
15 12/11–12/15 11.6 - Applications and Modeling (11.6) 1, 3, 5, 7, 13, 24	15	12/11-12/15	11.6 - Applications and Modeling	(11.6) 1, 3, 5, 7, 13, 24
Classes end – Tues. 12/11			Classes end – Tues. 12/11	