

Homework Schedule Math10560 Spring 2024

| Class Date | Topic covered in class | HW Appears | HW Due |
|--|--|-------------------------------|---|
| Jan 17 Wed. Jan 19 Fri. | 6.1. Inverse Functions 6.2*. The Natural Logarithmic Function | Jan 16 Jan 17 | Jan 22 2:00 a.m. Jan 23 2:00 a.m. |
| Jan 22 Mon. Jan 24 Wed. Jan 26 Fri. | 6.3*. The Natural Exponential Function 6.4*. General Logarithmic and Exponential Function 6.5. Exponential Growth and Decay | Jan 19 Jan 22 Jan 24 | Jan 25 2:00 a.m. Jan 29 2:00 a.m. Jan. 30 2:00 a.m. |
| Jan. 29 Mon. Jan. 31 Wed. Feb. 02 Fri. | 6.6. Inverse Trigonometric Functions 6.8. Indeterminate Forms and L'Hospital's Rule 7.1. Integration by Parts | Jan 26 Jan. 29 Jan. 31 | Feb. 01 2:00 a.m. Feb. 05 2:00 a.m. Feb. 06 2:00 a.m. |
| Feb. 05 Mon. Feb. 07 Wed. Feb. 09 Fri. | 7.2. Trigonometric Integrals 7.3. Trigonometric Substitution 7.4. Integration of Rational Functions by Partial Fractions, Part 1 | Feb. 02 Feb. 05 Feb 07 | Feb. 08 2:00 a.m. Feb. 12 2:00 a.m. Feb. 13 2:00 a.m. |
| Feb 12 Mon. Feb 14 Wed. Feb. 16 Fri. | Partial Fractions, Part 2/Rationalizing substitutions 7.5. Strategy for Integration 7.7. Approximate Integrals | Feb. 09 Feb. 12 Feb. 14 | Feb. 15 2:00 a.m. Feb. 19 2:00 a.m. Feb. 26 2:00 a.m. |
| Feb. 19 Mon. Feb. 21 Wed. Feb. 23 Fri. | Review for Exam 1 Return and discussion of Exam 1 7.8. Improper Integrals | Feb. 21 | Feb. 27 2:00 a.m. |
| Feb. 26 Mon. Feb. 28 Wed. Mar. 01 Fri. | 8.1. Arc Length 9.2. Direction Fields and Euler's Method 9.3. Separable Equations | Feb. 23 Feb. 26 Feb. 28 | Feb. 29 2:00 a.m. Mar. 04 2:00 a.m. Mar. 05 2:00 a.m. |
| Mar. 04 Mon. Mar. 06 Wed. Mar. 08 Fri. | 9.5. Linear Equations 11.1. Sequences 11.2. Series | Mar. 01 Mar. 04 Mar. 06 | Mar. 07 2:00 a.m. Mar. 18 2:00 a.m. Mar. 19 2:00 a.m. |
| Spring Break | | | |
| Mar. 18 Mon. Mar. 20 Wed. Mar. 22 Fri. | 11.3. The Integral Test for p-series Review for Exam 2 Return and discussion of Exam 2 | Mar. 08 | Mar. 25 2:00 a.m. |
| Mar. 25 Mon. Mar. 27 Wed. | 11.4. The Comparison Tests 11.5. Alternating Series | Mar. 22 Mar. 25 | Mar. 28 2:00 a.m. Apr. 04 2:00 a.m. |
| Easter Break | | | |
| Apr. 03 Wed. Apr. 05 Fri.. | 11.6. Absolute Convergence and the Ratio and Root Tests 11.7. Strategy for Testing Series | Mar. 27 Apr. 03 | Apr. 08 2:00 a.m. Apr. 09 2:00 a.m. |
| Apr. 08 Mon. Apr. 10 Wed. Apr 12 Fri. | 11.8. Power Series 11.9. Representations of Functions as Power Series 11.10. Taylor and MacLaurin Series | Apr. 05 Apr. 08 Apr. 10 | Apr. 11 2:00 a.m. Apr. 15 2:00 a.m. Apr. 16 2:00 a.m. |
| Apr 15 Mon. Apr 17 Wed. Apr. 19 Fri. | 11.11. Applications of Taylor Polynomials 10.1. Curves Defined by Parametric Equations 10.2. Calculus with Parametric Curves | Apr. 12 Apr. 15 Apr. 17 | Apr. 18 2:00 a.m. Apr. 22 2:00 a.m. Apr. 25 2:00 a.m. |
| Apr. 22 Mon. Apr. 24 Wed. Apr. 26 Fri. | Review For Exam 3 Return and discussion of Exam 3 10.3. Polar Coordinates | Apr. 19 | Apr. 30 2:00 a.m. |
| Apr. 29 Mon. | 10.4. Areas and Lengths in Polar Coordinates | Apr. 26 | May 02 11:59 p.m. |