

Schedule Math10560 Spring 2025

01/13	Mon.	6.1. Inverse Functions
01/14	Tue.	Course Information.
01/15	Wed.	6.2*. The Natural Logarithmic Function
01/17	Fri.	6.3*. The Natural Exponential Function
01/20	Mon.	MLK Day, No Classes
01/21	Tue.	Quiz 1, Topics 6.1, 6.2*, 6.3*
01/22	Wed.	6.4*. General Logarithmic and Exponential Function.
01/24	Fri.	6.5. Exponential Growth and Decay
01/27	Mon.	6.6. Inverse Trigonometric Functions
01/28	Tue.	Quiz 2, Topics 6.4*, 6.5
01/29	Wed.	6.8. Indeterminate Forms and L'Hospital's Rule
01/31	Fri.	7.1. Integration by Parts
02/03	Mon.	7.2. Trigonometric Integrals
02/04	Tue.	Quiz 3, Topics 6.6, 6.8, 7.1
02/05	Wed.	7.3. Trigonometric Substitution
02/07	Fri.	7.4. Integration of Rational Functions by Partial Fractions
02/10	Mon.	7.4. Integration of Rational Functions by Partial Fractions
02/11	Tue.	Quiz 4, Topics 7.2, 7.3, 7.4(Part 1)
02/12	Wed.	7.5. Strategy for Integration
02/14	Fri.	7.7. Approximate Integrals
02/17	Mon.	Review for Exam 1
02/18	Tue.	Exam 1 (No Tutorial)
02/19	Wed.	Return and discussion of Exam 1/Catch Up
02/21	Fri.	7.8. Improper Integrals
02/24	Mon.	8.1. Arc Length
02/25	Tue.	Quiz 5, Topics 7.4, 7.5, 7.7, 7.8
02/26	Wed.	9.2. Direction Fields and Euler's Method
02/28	Fri.	9.3. Separable Equations
03/03	Mon.	9.5. Linear Equations
03/04	Tue.	Quiz 6, Topics 8.1, 9.2, 9.3
03/05	Wed.	11.1. Sequences
03/07	Fri.	11.2. Series
03/10	Mon.	Spring Break
03/11	Tue.	Spring Break
03/12	Wed.	Spring Break
03/14	Fri.	Spring Break

03/17	Mon.	11.3/11.4. p-series (using integral test) and comparison test.
03/18	Tue.	Quiz 7, Topics 9.5, 11.1, 11.2
03/19	Wed.	Review for Exam 2
03/20	Thur.	Exam 2
03/21	Fri.	Return and discussion of Exam 2/Catch Up
03/24	Mon.	11.4. The Comparison Tests
03/25	Tue.	Quiz 8, Topics 11.1-11.4 + Topics from Exam 2
03/26	Wed.	11.5. Alternating Series
03/28	Fri.	11.6. Absolute Convergence and the Ratio and Root Tests
03/31	Mon.	11.7. Strategy for Testing Series
04/01	Tue.	Quiz 9, Topics 11.4, 11.5, 11.6
04/02	Wed.	11.8. Power Series
04/04	Fri.	11.9. Representations of Functions as Power Series
04/07	Mon.	11.10. Taylor and MacLaurin Series
04/08	Tue.	Quiz 10, Topics 11.7, 11.8, 11.9
04/09	Wed.	11.11. Applications of Taylor Polynomials
04/11	Fri.	10.1. Curves Defined by Parametric Equations
04/14	Mon.	10.2. Calculus with Parametric Curves
04/15	Tue.	Quiz 11, Topics 11.10, 11.11, 10.1
04/16	Wed.	Review for Exam 3
04/18	Fri.	Easter Break
04/21	Mon.	Easter Break
04/22	Tue.	Exam 3 (No Tutorial)
04/23	Wed.	Return of Exam 3, Catch up/review
04/25	Fri.	10.3. Polar Coordinates
04/28	Mon.	10.4. Areas and Lengths in Polar Coordinates
04/29	Tue.	Review
04/30	Wed.	Review
05/07	Wed.	Final Exam, 8-10 a.m.