

## Schedule Math10560 Spring 2022

01/10	Mon.	Course Information and 6.1. Inverse Functions
01/11	Tue.	Course Information and 6.1. Inverse Functions
01/12	Wed.	6.2*. The Natural Logarithmic Function
01/14	Fri.	6.3*. The Natural Exponential Function
01/17	Mon.	No Classes (MLK Day).
01/18	Tue.	Quiz 1, Topics 6.1, 6.2*, 6.3*
01/19	Wed.	6.4*. General Logarithmic and Exponential Function.
01/21	Fri.	6.5. Exponential Growth and Decay
01/24	Mon.	6.6. Inverse Trigonometric Functions
01/25	Tue.	Quiz 2, Topics 6.4*, 6.5
01/26	Wed.	6.8. Indeterminate Forms and L'Hospital's Rule
01/28	Fri.	7.1. Integration by Parts
01/31	Mon.	7.2. Trigonometric Integrals
02/01	Tue.	Quiz 3, Topics 6.6, 6.8, 7.1
02/02	Wed.	Snooooooooo
02/04	Fri.	7.3. Trigonometric Substitution
02/07	Mon.	7.4. Integration of Rational Functions by Partial Fractions
02/08	Tue.	Quiz 4 7.2, 7.3
02/09	Wed.	7.4. Integration of Rational Functions by Partial Fractions
02/11	Fri.	7.5. Strategy for Integration
02/14	Mon.	Review for Exam 1
02/15	Tue.	<b>Exam 1</b> (No Tutorial)
02/16	Wed.	Return and discussion of Exam 1 (Topics discussed will appear on Quiz/WS 5)
02/18	Fri.	7.7. Approximate Integrals
02/21	Mon.	7.8. Improper Integrals
02/22	Tue.	Quiz 5, 7.4, 7.5, 7.7
02/23	Wed.	9.2. Direction Fields and Euler's Method
02/25	Fri.	9.3. Separable Equations
02/28	Mon.	9.5. Linear Equations
03/01	Tue.	Quiz 6, Topics 7.8, 9.2, 9.3
03/02	Wed.	11.1. Sequences
03/04	Fri.	11.2. Series
03/07	Mon.	Spring Break
03/08	Tue.	Spring Break
03/09	Wed.	Spring Break
03/11	Fri.	Spring Break

03/14	Mon.	11.3/11.4. p-series (using integral test) and comparison test.
03/15	Tue.	Quiz 7, 9.5, 11.1, 11.2
03/16	Wed.	Review for Exam 2
03/17	Thur.	<b>Exam 2</b>
03/18	Fri.	Return and discussion of Exam 2 (Topics discussed will appear on Quiz/WS 7)
03/21	Mon.	11.4. The Comparison Tests
03/22	Tue.	Quiz 8, Topic 11.3 and Topics from Exam 2
03/23	Wed.	11.5. Alternating Series
03/25	Fri.	11.6. Absolute Convergence and the Ratio and Root Tests
03/28	Mon.	11.7. Strategy for Testing Series
03/29	Tue.	Quiz 9, Topics 11.4, 11.5, 11.6
03/30	Wed.	11.8. Power Series
04/01	Fri.	11.9. Representations of Functions as Power Series
04/04	Mon.	11.10. Taylor and Maclaurin Series
04/05	Tue.	Quiz 10, Topics 11.7, 11.8, 11.9
04/06	Wed.	11.11. Applications of Taylor Polynomials
04/08	Fri.	10.1. Curves Defined by Parametric Equations
04/11	Mon.	10.2. Calculus with Parametric Curves
04/12	Tue.	Quiz 11, Topics 11.10, 11.11, 10.1
04/13	Wed.	Review for Exam 3
04/15	Fri.	Easter Break
04/18	Mon.	Easter Break
04/19	Tue.	<b>Exam 3</b> (No Tutorial)
04/20	Wed.	10.3. Polar Coordinates
04/22	Fri.	10.4. Areas and Lengths in Polar Coordinates
04/25	Mon.	Review
04/26	Tue.	Review
05/05	Thurs.	<b>Final Exam 1:45-3:45 p.m.</b>