

MAT 139.01 Calendar: Spring 2022

Class Date	Class Activities	Learning Resources: Useful for reviewing or finishing notes in Coursepack	Assignments to Complete Prior to Next Class
Monday January 10	<ul style="list-style-type: none"> Course Introduction Class Discussion 1.1: Functions, Function Notation 	Lecture Videos 1.1A, 1.1B, 1.1C	<ul style="list-style-type: none"> My Math Lab HW 1.1 Worksheet 1.1A Worksheet 1.1B <p style="text-align: center;">Due 1/12</p>
Wednesday January 12	<ul style="list-style-type: none"> Q & A Section 1.1 Class Discussion 1.2: Functions and Graphs Class Discussion P.4: Linear Modeling Preview P.1-P.3: Linear Functions 	Lecture Videos 1.2A, B, C Lecture Videos P.1 – P.5 (as needed, review material)	<ul style="list-style-type: none"> My Math Lab HW 1.2 Worksheet 1.2 Worksheet P.4 My Math Lab HW P.1-P.5 <p style="text-align: center;">Due 1/19</p>
Wednesday January 19	<ul style="list-style-type: none"> Q & A P.1 – P.6 Q & A 1.2 Class Discussion 1.3: Introduction to Polynomials Class Discussion 1.4: Simplifying Quadratic Expressions 	Lecture Video 1.3 Lecture Videos 1.4A, B, C	<ul style="list-style-type: none"> Worksheet 1.3 My Math Lab HW 1.4 Worksheet 1.4 <p style="text-align: center;">Due 1/24</p>
Monday January 24	<ul style="list-style-type: none"> Q & A Sections 1.3 and 1.4 Class Discussion 1.5: Solving Quadratic Equations 	Lecture Videos 1.5A, B1, B2, C	<ul style="list-style-type: none"> My Math Lab HW 1.5 Worksheet 1.5 <p style="text-align: center;">Due 1/26</p>
Wednesday January 26	<ul style="list-style-type: none"> Q & A Sections 1.5 Class Discussion 1.6: Graphing Quadratic Functions Class Discussion 1.7: Solving Quadratic Equations by Graphing 	Lecture Videos 1.6A, B, C1, C2 Lecture Video 1.7	<ul style="list-style-type: none"> Worksheet 1.6 Worksheet 1.7 <p style="text-align: center;">Due 1/31</p> <p style="text-align: center;">*Begin Review for Test 1*</p>
Monday January 31	<ul style="list-style-type: none"> Q & A Sections 1.6-1.7 Class Discussion 1.8: Solving Quadratic Inequalities Class Discussion 1.9: Quadratic Modeling 	Lecture Videos 1.8A, B Lecture Videos 1.9A,B,C,D,E,F	<ul style="list-style-type: none"> My Math Lab 1.8 Worksheet 1.8 Worksheet 1.9 <p style="text-align: center;">2/2</p> <p style="text-align: center;">*Continue Review for Test 1*</p>
Wednesday February 2	<ul style="list-style-type: none"> Q & A Section 1.8 and 1.9 Review for Test 1 		<ul style="list-style-type: none"> Prepare for Test 1

Monday February 7	<ul style="list-style-type: none"> • Test 1 in class • On your own do section 2.1: Power Functions and Graphs 	Lecture Video 2.1	<ul style="list-style-type: none"> • Worksheet 2.1 <p style="text-align: center;">Due 2/9</p>
Wednesday February 9	<ul style="list-style-type: none"> • Discuss Test 1 • Q & A Section 2.1 • Class Discussion 2.2: Simplifying Higher Order Polynomial Expressions • Class Discussion 2.3: Polynomial Division 	Lecture Videos 2.2A, B Lecture Videos 2.3A1, A2, B	<ul style="list-style-type: none"> • My Math Lab 2.2 • Worksheet 2.2 • My Math Lab 2.3 <p style="text-align: center;">Due 2/14</p>
Monday February 14	<ul style="list-style-type: none"> • Q & A Sections 2.2-2.3 • Class Discussion 2.4: Solving Higher Order Polynomial Equations 	Lecture Videos 2.4A, B, C, D	<ul style="list-style-type: none"> • My Math Lab 2.4 • Worksheet 2.4 <p style="text-align: center;">Due 2/16</p>
Wednesday February 16	<ul style="list-style-type: none"> • Q & A Section 2.4 • Quiz Preparation • Class Discussion 2.5: Graphing Higher Order Polynomial Functions 	Lecture Videos 2.5A,B,C,D	<ul style="list-style-type: none"> • My Math Lab 2.5 • Worksheet 2.5 <p style="text-align: center;">Due 2/21</p>
Monday February 21	<ul style="list-style-type: none"> • Q & A Section 2.5 • Class Discussion 2.6: Solving Equations using Graphing Technology • Class Discussion 2.7: Solving Higher Order Polynomial Inequalities 	Lecture Video 2.6 Lecture Videos 2.7A1, A2	<ul style="list-style-type: none"> • My Math Lab 2.6 • Worksheet 2.7 <p style="text-align: center;">Due 2/23</p> <p style="text-align: center;">*Begin Midterm Review*</p>
Wednesday February 23	<ul style="list-style-type: none"> • Q & A Sections 2.6- 2.7 • Class Discussion 2.8: Modeling with Higher Order Polynomials 	Lecture Videos 2.8	<ul style="list-style-type: none"> • Worksheet 2.8 <p style="text-align: center;">Due 2/28</p> <p style="text-align: center;">*Continue Midterm Review*</p>
Monday February 28	<ul style="list-style-type: none"> • Q & A Section 2.8 • Review for Midterm 		<ul style="list-style-type: none"> • Prepare for Midterm
Wednesday March 2	<ul style="list-style-type: none"> • Midterm Exam in class • On your own do section 3.1: Simplifying Exponential Expressions 	Lecture Videos 3.1A, B, C, D1, D2	<ul style="list-style-type: none"> • My Math Lab 3.1 <p style="text-align: center;">Due 3/14</p>
Monday March 14	<ul style="list-style-type: none"> • Discuss Midterm • Q & A Section 3.1 • Class Discussion 3.2: Exponential Functions • Class Discussion 3.3: Exponential Modeling 	Lecture Videos 3.2A, B, C, D Lecture Videos 3.3A, B, C, D	<ul style="list-style-type: none"> • My Math Lab 3.2 • Worksheet 3.2 • Worksheet 3.3 <p style="text-align: center;">Due 3/16</p>

Wednesday March 16	<ul style="list-style-type: none"> Q & A Section 3.2 – 3.3 Preview 3.4: Composition of Functions Class Discussion 3.5: Inverse Functions 	<p>Lecture Video 3.4</p> <p>Lecture Videos 3.5AB, C, D, E</p>	<ul style="list-style-type: none"> My Math Lab 3.4 My Math Lab 3.5 Worksheet 3.5 <p>Due 3/21</p>
Monday March 21	<ul style="list-style-type: none"> Q & A Section 3.5 Class Discussion 3.6: Introduction to Logarithms Class Discussion 3.7: Log Functions, Graphs and Applications 	<p>Lecture Videos 3.6A, B</p> <p>Lecture Videos 3.7A, B</p>	<ul style="list-style-type: none"> My Math Lab 3.6 Worksheet 3.6 Worksheet 3.7 <p>Due 3/23</p>
Wednesday March 23	<ul style="list-style-type: none"> Q & A Section 3.6-3.7 Class Discussion 3.8: Solving Log and Exponential Equations Class Discussion 3.9: Properties of Logarithms 	<p>Lecture Videos 3.8A, B</p> <p>Lecture Videos 3.9A, B, C, D</p>	<ul style="list-style-type: none"> My Math Lab 3.8 Worksheet 3.9 <p>Due 3/28</p>
Monday March 28	<ul style="list-style-type: none"> Q & A Section 3.8 – 3.9 Class Discussion 3.10: Exponential Modeling (revisited) Class Discussion 3.11: Natural Log and Exponential Functions 	<p>Lecture Videos 3.10A, B</p> <p>Lecture Videos 3.11A, B, C</p>	<ul style="list-style-type: none"> Worksheet 3.10 My Math Lab 3.11 Worksheet 3.11 <p>Due 3/30</p> <p>**Also Review for Test 3**</p>
Wednesday March 30	<ul style="list-style-type: none"> Q & A Section 3.10 - 3.11 Review for Test 3 		<ul style="list-style-type: none"> Prepare for Test 3
Monday April 4	<ul style="list-style-type: none"> Test 3 in class On your own: Do section 4.1 Introducing Rational Functions 	<p>Lecture Videos 4.1A, B</p>	<ul style="list-style-type: none"> My Math Lab 4.1 <p>Due 4/6</p>
Wednesday April 6	<ul style="list-style-type: none"> Discuss Test 3 Q & A Section 4.1 Class Discussion 4.2: Operations on Rational Expressions 	<p>Lecture Videos 4.2A, B, C</p>	<ul style="list-style-type: none"> My Math Lab 4.2 Worksheet 4.2 <p>Due 4/11</p>
Monday April 11	<ul style="list-style-type: none"> Q & A 4.2 Class Discussion 4.3: Solving Rational Equations Class Discussion 4.4: Graphing Rational Functions 	<p>Lecture Videos 4.3A, B</p> <p>Lecture Videos 4.4A, B</p>	<ul style="list-style-type: none"> My Math lab 4.3 Worksheet 4.3 Worksheet 4.4 <p>Due 4/13</p>
Wednesday April 13	<ul style="list-style-type: none"> Q & A Section 4.3-4.4 Class Discussion 4.5: Solving Rational Inequalities Class Discussion 4.6: Modeling and Applications of Rational Functions 	<p>Lecture Videos 4.5A, B</p> <p>Lecture Videos 4.6A, B1, B2</p>	<ul style="list-style-type: none"> Worksheet 4.5 My Math Lab 4.6 Worksheet 4.6 <p>Due 4/18</p>

Monday April 18	<ul style="list-style-type: none"> • Q & A Section 4.5-4.6 • Class Discussion 4.7: Introduction to Radicals • Class Discussion 4.8: Simplifying Radical Expressions • Class Discussion 4.9: Operations on Radical Expressions 	<p>Lecture Videos 4.7</p> <p>Lecture Videos 4.8A, B, C</p> <p>Lecture Videos 4.9A, B, C</p>	<ul style="list-style-type: none"> • My Math Lab 4.7 • My Math Lab 4.8 • Worksheet 4.9 <p>Due 4/20</p>
Wednesday April 20	<ul style="list-style-type: none"> • Q & A Section 4.7-4.9 • Preview 4.10: Graphing Radical Functions • Class Discussion 4.11: Solving Radical Equations • Class Discussion 4.12: Modeling and Applications of Radical Functions 	<p>Lecture Video 4.10</p> <p>Lecture Video 4.11</p> <p>Lecture Videos 4.12A, B</p>	<ul style="list-style-type: none"> • Worksheet 4.10 • My Math Lab 4.11 • My Math Lab 4.12 • Worksheet 4.12 <p>Due 4/25</p> <p>** Review for Final Exam**</p>
Monday April 25	<ul style="list-style-type: none"> • Q & A 4.10-4.12 • Review for Final Exam. Note: final exam is split into take-home portion and proctored portion. 		<ul style="list-style-type: none"> • Take home portion of final exam distributed at the end of class today. <p>Study for Final Exam</p>
Wednesday April 27	<ul style="list-style-type: none"> • Final Exam taken in class 		<ul style="list-style-type: none"> • Reminder: Take home portion of final exam due today when you hand in your in-class final!