

MAT 151.01 Calendar: Spring 2022

Class Date	Class Activities: Section designations and classwork Numbers refer to Coursepack	Learning Resources: Useful for reviewing or finishing notes in Coursepack, supplemental reading	Assignments to Complete Prior to Next Class: Complete all MML. Hand in Classwork as requested by instructor.
Monday January 10	<ul style="list-style-type: none"> Welcome Class Discussion 1A: Finding Limits Graphically Classwork #1 Class Discussion 1B: Finding Limits Numerically Classwork #2 	<p>Lecture Videos 1A</p> <p>Lecture Videos 1B</p> <p>Textbook Section 2.2 and pp. 83-85</p>	<ul style="list-style-type: none"> My Math Lab HW 1A Classwork #1 Classwork #2 Classwork #3 <p style="text-align: center;">Due 1/12</p>
Wednesday January 12	<ul style="list-style-type: none"> Q & A Section 1A, 1B Class Discussion 1C: Drawing Graphs Based on Limits Graph Drawing Activity Class Discussion 1D: Finding limits Analytically (as x approaches a finite value) Classwork #4 	<p>Lecture Videos 1C</p> <p>Lecture Videos 1D</p> <p>Textbook Section 2.3 and pp. 86-87 and pp. 171-172</p>	<ul style="list-style-type: none"> My Math Lab HW 1C My Math Lab HW 1D Classwork #4 Classwork #5 <p style="text-align: center;">Due 1/19</p>
Wednesday January 19	<ul style="list-style-type: none"> Q & A Section 1C, 1D Class Discussion 1.E: Finding Limits Analytically (x approaches infinite value) Classwork #6 Class Discussion 1F: Continuity 	<p>Lecture Videos 1E</p> <p>Lecture Videos 1F</p> <p>Textbook Sections 2.5-2.6</p>	<ul style="list-style-type: none"> My Math Lab HW 1E Classwork #6 My Math Lab HW 1F Classwork #7 <p style="text-align: center;">Due 1/24</p>
Monday January 24	<ul style="list-style-type: none"> Q & A Section 1E, 1F Preview 1G: Intermediate Value Theorem (assigned to be completed on your own) Class Discussion 1H: Applications of Limits Classwork #8 	<p>Lecture Videos 1G</p> <p>Textbook pp. 110-112</p> <p>(there are no YouTube videos for 1H – rather, we will start each of the classwork problems together in class)</p>	<ul style="list-style-type: none"> My Math Lab HW 1G Classwork #8 <p style="text-align: center;">Due 1/26</p> <p style="text-align: center;">**Work on Review for Test 1 (not handed in)**</p>
Wednesday January 26	<ul style="list-style-type: none"> Q & A Sections 1G – 1H Q & A: Review for Test 1 		<ul style="list-style-type: none"> Prepare for Test 1
Monday January 31	<ul style="list-style-type: none"> Test 1 		
Wednesday February 2	<ul style="list-style-type: none"> Class Discussion 2A: Definition of the Derivative (Finding Derivatives using a Limit) Classwork #9 	<p>Lecture Videos 2A</p> <p>Textbook Section 3.1 and pp. 140-143</p>	<ul style="list-style-type: none"> Classwork #9 <p style="text-align: center;">Due 2/7</p>

Monday February 7	<ul style="list-style-type: none"> Q & A Section 2A Class Discussion 2B: Derivatives Graphically Classwork #10 Class Discussion 2C: Derivatives Analytically – Basic Rules Classwork #11 	<p>Lecture Video 2B</p> <p>Lecture Videos 2C</p> <p>Textbook pp. 144-148 and Section 3.3</p>	<ul style="list-style-type: none"> My Math Lab HW 2C Classwork #10 Classwork #11 <p>Due 2/9</p>
Wednesday February 9	<ul style="list-style-type: none"> Q & A Sections 2B , 2C Class Discussion 2D: Derivatives Analytically – Product and Quotient Rules Classwork #12 Class Discussion 2E: Derivatives Analytically – Derivatives of Trigonometric Functions 	<p>Lecture Videos 2D</p> <p>Lecture Videos 2E</p> <p>Textbook Sections 3.4 – 3.5</p>	<ul style="list-style-type: none"> My Math Lab HW 2DE Classwork #12 Classwork #13 <p>Due 2/14</p>
Monday February 14	<ul style="list-style-type: none"> Q & A Section 2D, 2E Class Discussion 2F: Applications of the Derivative Classwork #14 Preview Section 2G: Higher Order Derivatives (assigned to be completed on your own) 	<p>Lecture Videos 2F</p> <p>Lecture Videos 2G</p> <p>Textbook Section 3.6</p>	<ul style="list-style-type: none"> Classwork #14 My Math lab HW 2G Classwork #15 <p>Due 2/16</p>
Wednesday February 16	<ul style="list-style-type: none"> Q & A Sections 2F, 2G Class Discussion 2H: Derivatives Analytically – Chain Rule Classwork #16 	<p>Lecture Videos 2H</p> <p>Textbook Section 3.7</p>	<ul style="list-style-type: none"> My Math Lab 2H Classwork #16 Classwork #17 <p>Due 2/21</p>
Monday February 21	<ul style="list-style-type: none"> Q & A Section 2H Class Discussion 2I: Implicit Derivatives Classwork #18 Class Discussion 2J: Derivatives of Logarithmic Functions 	<p>Lecture Videos 2I</p> <p>Lecture Videos 2J</p> <p>Textbook Sections 3.8-3.9</p>	<ul style="list-style-type: none"> My Math Lab 2I Classwork #18 My Math lab 2J Classwork #19 <p>Due 2/23</p> <p>*Begin Review for Test 2*</p>
Wednesday February 23	<ul style="list-style-type: none"> Q & A Sections 2I, 2J Class Discussion 2K: Derivatives of Inverse Trig Functions Classwork #20 	<p>Lecture Videos 2K</p> <p>Textbook Section 3.10</p>	<ul style="list-style-type: none"> My Math Lab 2K Classwork #20 <p>Due 2/28</p> <p>*Finish Review for Midterm* (not handed in)</p>
Monday February 28	<ul style="list-style-type: none"> Q & A Sections 2J – 2K Q & A Midterm Exam Review: Note: Midterm is cumulative, covering Units 1 - 2 		<p>Prepare for Midterm Exam</p>

Wednesday March 2	<ul style="list-style-type: none"> • Midterm Exam 		
Monday March 14	<ul style="list-style-type: none"> • Class Discussion 3A: Related Rates Problems • Classwork #21 	<p>Lecture Videos 3A</p> <p>Textbook Section 3.11</p>	<ul style="list-style-type: none"> • My Math Lab 3A • Classwork #21 <p>Due 3/16</p>
Wednesday March 16	<ul style="list-style-type: none"> • Q & A Section 3A • Class Discussion 3B: Graphing Based on the First and Second Derivatives • Classwork #22 	<p>Lecture Videos 3B</p> <p>Textbook Section 4.3</p>	<ul style="list-style-type: none"> • My Math lab 3B • Classwork #22 <p>Due 3/21</p>
Monday March 21	<ul style="list-style-type: none"> • Q & A Section 3B • Class Discussion 3C: Graphing Based on Limits and Derivatives • Classwork #24 • Preview Section 3D: Absolute Maximum and Minimum (assigned to be completed on your own) 	<p>Lecture Videos 3C</p> <p>Lecture Videos 3D</p> <p>Textbook Section 4.4</p> <p>Textbook Section 4.1</p>	<ul style="list-style-type: none"> • Classwork #23 • Classwork #24 • Classwork #25 <p>Due 3/23</p>
Wednesday March 23	<ul style="list-style-type: none"> • Q & A Section 3C, 3D • Class Discussion 3E: Optimization • Classwork #26 	<p>Lecture Videos 3E</p> <p>Textbook Section 4.5</p>	<ul style="list-style-type: none"> • My Math Lab 3E • Classwork #26 <p>Due 3/28</p>
Monday March 28	<ul style="list-style-type: none"> • Q & A Section 3E • Class Discussion 3F: Linear Approximation, Differentials • Class Discussion 3G: Rolle's Theorem and the Mean Value Theorem 	<p>Lecture Videos 3F</p> <p>Lecture Videos 3G</p> <p>Textbook Section 4.6</p> <p>Textbook Section 4.2</p>	<ul style="list-style-type: none"> • Classwork #27 • My Math Lab 3G <p>Due 3/30</p>
Wednesday March 30	<ul style="list-style-type: none"> • Q & A Section 3F, 3G • Class Discussion 3H: L'Hopital's Rule • Classwork #28 	<p>Lecture Videos 3H</p> <p>Textbook Section 4.7</p>	<ul style="list-style-type: none"> • Classwork #28 <p>Due 4/4</p> <p>** Also Review for Test 3** (not handed in)</p>
Monday April 4	<ul style="list-style-type: none"> • Q & A: Sections 3G, 3H • Q & A: Review for Test 3 		<ul style="list-style-type: none"> • Complete Test 3 (take home) Due by 11 am on Wed. April 6.
Wednesday April 6	<ul style="list-style-type: none"> • Class Discussion 4A: Approximating the Area Under a Curve Using Riemann Sums • Classwork #29 	<p>Lecture Videos 4A</p> <p>Textbook Sections 5.1-5.2</p>	<ul style="list-style-type: none"> • Classwork #29 (Homework: Exploring Area with Riemann Sums) <p>Due 4/11</p>

Monday April 11	<ul style="list-style-type: none"> Q & A Section 4A Class Discussion 4B: Properties of the Definite Integral Classwork #30 Class Discussion 4C: Antiderivatives 	<p>Lecture Videos 4B</p> <p>Lecture Videos 4C</p> <p>Textbook Section 4.9</p>	<ul style="list-style-type: none"> Classwork #30 My Math Lab 4C Classwork #31 <p>Due 4/13</p>
Wednesday April 13	<ul style="list-style-type: none"> Q & A Section 4B, 4C Class Discussion 4D: The Fundamental Theorem of Calculus Classwork #32 Class Discussion 4E: U-Substitution Method of Integration 	<p>Lecture Videos 4.3D</p> <p>Lecture Videos 4.5E</p> <p>Textbook Section 5.3</p> <p>Textbook Section 5.5</p>	<ul style="list-style-type: none"> My Math Lab 4D Classwork #32 <p>Due 4/18</p>
Monday April 18	<ul style="list-style-type: none"> Q & A Section 4D Class Discussion 4E: U-Substitution Method of Integration (finish) Classwork #33 Class Discussion 4F: Integrals Involving Natural Logs 	<p>Lecture Videos 4.5E</p> <p>Lecture Videos 4.5F</p>	<ul style="list-style-type: none"> My Math Lab 4E Classwork #33 My Math Lab 4F Classwork #34 <p>Due 4/20</p> <p>*Also begin Review for Final Exam* (not handed in)</p>
Wednesday April 20	<ul style="list-style-type: none"> Q & A Section 4E, 4F Class Discussion 4G: Integrals Involving Inverse Trig Functions Classwork #35 Class Discussion 4H: Applications of the Integral Classwork #36 	<p>Lecture Videos 4.5G</p> <p>Lecture Video 4H</p> <p>Textbook Section 5.4</p>	<ul style="list-style-type: none"> My Math Lab 4G Classwork #35 My Math Lab 4H Classwork #36 <p>Due 4/25</p> <p>*Also Review for Final Exam* (not handed in)</p>
Monday April 25	<ul style="list-style-type: none"> Q & A 4G, 4H Q & A Review for Final Exam 		<p>Prepare for Final Exam</p>
Wednesday April 27	<ul style="list-style-type: none"> Final Exam 		