

## MAT 139.I1 Calendar: Spring 2022

Class Date	Class Activities	Learning Resources: Videos to Watch Prior to Next Class	Assignments to Complete Prior to Next Class
Tuesday January 11	<ul style="list-style-type: none"> <li>Course Introduction</li> <li>Preview 1.1: Functions, Function Notation</li> </ul>	Class Intro (BBB recording) if you were not able to be in class  Lecture Videos 1.1A, 1.1B, 1.1C	<ul style="list-style-type: none"> <li>My Math Lab HW 1.1</li> <li>Worksheet 1.1A</li> <li>Worksheet 1.1B</li> </ul> Due by midnight 1/13
Thursday January 13	<ul style="list-style-type: none"> <li>Q &amp; A Section 1.1: This is a great opportunity for us to work together on problems from homework/worksheets</li> <li>Preview 1.2: Functions and Graphs</li> <li>Preview P.1-P.3: Linear Functions and Graphs</li> </ul>	Lecture Videos 1.2A, B, C  Lecture Videos P.1 – P.3 (as needed, review material)	<ul style="list-style-type: none"> <li>My Math Lab HW 1.2</li> <li>Worksheet 1.2</li> <li>My Math Lab HW P.1-P.3</li> </ul> Due by midnight 1/18
Tuesday January 18	<ul style="list-style-type: none"> <li>Q &amp; A Section 1.2, P.1 – P.3</li> <li>Preview P.4: Linear Modeling</li> <li>Preview P.5-P.6: Linear Systems and Inequalities</li> </ul>	Lecture Videos P.4 (strongly recommend watching)  Lecture Videos P.5 – P.6 (as needed, review material)	<ul style="list-style-type: none"> <li>Worksheet P.4</li> <li>My Math Lab HW P.5-P.6</li> </ul> Due by midnight 1/20
Thursday January 20	<ul style="list-style-type: none"> <li>Q &amp; A Unit P.4-P.6</li> <li>Quiz Preparation</li> <li>Preview 1.3: Introduction to Polynomials</li> <li>Preview 1.4: Simplifying Quadratic Expressions</li> </ul>	Lecture Video 1.3  Lecture Videos 1.4A, B, C	<ul style="list-style-type: none"> <li>Worksheet 1.3</li> <li>My Math Lab HW 1.4</li> <li>Worksheet 1.4</li> </ul> Due by midnight 1/25
Tuesday January 25	<ul style="list-style-type: none"> <li>Q &amp; A Sections 1.3 and 1.4</li> <li>Preview 1.5: Solving Quadratic Equations</li> </ul>	Lecture Videos 1.5A, B1, B2, C	<ul style="list-style-type: none"> <li>My Math Lab HW 1.5</li> <li>Worksheet 1.5</li> </ul> Due by midnight 1/27
Thursday January 27	<ul style="list-style-type: none"> <li>Q &amp; A Sections 1.5</li> <li>Preview 1.6: Graphing Quadratic Functions</li> <li>Preview 1.7: Solving Quadratic Equations by Graphing</li> </ul>	Lecture Videos 1.6A, B, C1, C2  Lecture Video 1.7	<ul style="list-style-type: none"> <li>Worksheet 1.6</li> <li>Worksheet 1.7</li> </ul> Due by midnight 2/1  *Begin Review for Test 1*
Tuesday February 1	<ul style="list-style-type: none"> <li>Q &amp; A Sections 1.6-1.7</li> <li>Preview 1.8: Solving Quadratic Inequalities</li> <li>Preview 1.9: Quadratic Modeling</li> </ul>	Lecture Videos 1.8A, B  Lecture Videos 1.9A,B,C,D,E,F	<ul style="list-style-type: none"> <li>My Math Lab 1.8</li> <li>Worksheet 1.8</li> <li>Worksheet 1.9</li> </ul> Due by midnight 2/3 *Continue Review for Test 1*

Thursday February 3	<ul style="list-style-type: none"> <li>Q &amp; A Section 1.8 and 1.9</li> <li>Review for Test 1</li> </ul>		<ul style="list-style-type: none"> <li><b>Test 1 (take-home style):</b> Opens at 2 pm 2/3 Due by midnight 2/8</li> </ul>
Tuesday February 8	<ul style="list-style-type: none"> <li>Preview 2.1: Power Functions and Graphs</li> <li>Preview 2.2: Simplifying Higher Order Polynomial Expressions</li> <li>Preview 2.3: Polynomial Division</li> </ul>	<p>Lecture Video 2.1</p> <p>Lecture Videos 2.2A, B</p> <p>Lecture Videos 2.3A1, A2, B</p>	<ul style="list-style-type: none"> <li>Worksheet 2.1</li> <li>My Math Lab 2.2</li> <li>Worksheet 2.2</li> <li>My Math Lab 2.3</li> </ul> <p>Due by midnight 2/10</p>
Thursday February 10	<ul style="list-style-type: none"> <li>Q &amp; A Sections 2.2-2.3</li> <li>Preview 2.4: Solving Higher Order Polynomial Equations</li> </ul>	Lecture Videos 2.4A, B, C, D	<ul style="list-style-type: none"> <li>My Math Lab 2.4</li> <li>Worksheet 2.4</li> </ul> <p>Due by midnight 2/15</p>
Tuesday February 15	<ul style="list-style-type: none"> <li>Q &amp; A Section 2.4</li> <li>Preview 2.5: Graphing Higher Order Polynomial Functions</li> </ul>	Lecture Videos 2.5A,B,C,D	<ul style="list-style-type: none"> <li>My Math Lab 2.5</li> <li>Worksheet 2.5</li> </ul> <p>Due by midnight 2/17</p>
Thursday February 17	<ul style="list-style-type: none"> <li>Q &amp; A Section 2.5</li> <li>Preview 2.6: Solving Equations using Graphing Technology</li> <li>Preview 2.7: Solving Higher Order Polynomial Inequalities</li> </ul>	<p>Lecture Video 2.6</p> <p>Lecture Videos 2.7A1, A2</p>	<ul style="list-style-type: none"> <li>My Math Lab 2.6</li> <li>Worksheet 2.7</li> </ul> <p>Due by midnight 2/22</p> <p>*Begin Midterm Review*</p>
Tuesday February 22	<ul style="list-style-type: none"> <li>Q &amp; A Sections 2.6- 2.7</li> <li>Preview 2.8: Modeling with Higher Order Polynomials</li> </ul>	Lecture Videos 2.8	<ul style="list-style-type: none"> <li>Worksheet 2.8</li> </ul> <p>Due by midnight 2/24</p> <p>*Continue Midterm Review*</p>
Thursday February 24	<ul style="list-style-type: none"> <li>Q &amp; A Section 2.8</li> <li>Review for Midterm</li> </ul>		Study for Midterm Exam
Tuesday March 1 Or Wednesday March 2	<ul style="list-style-type: none"> <li><b>Midterm Exam to be taken during proctored Zoom call:</b></li> <li><b>Available times are Tuesday 3/1: 9 – 11:30 am or Wednesday 3/2: 6 – 8:30 pm</b></li> </ul>		Note: Please try to attend one of the exam sessions. If these times are truly impossible, make arrangements with instructor at least 2 weeks in advance to test with our lab.
Thursday March 3	<ul style="list-style-type: none"> <li>Preview 3.1: Simplifying Exponential Expressions</li> <li>Preview 3.2: Exponential Functions</li> </ul>	<p>Lecture Videos 3.1A, B, C, D1, D2</p> <p>Lecture Videos 3.2A, B, C, D</p>	<ul style="list-style-type: none"> <li>My Math Lab 3.1</li> <li>My Math Lab 3.2</li> <li>Worksheet 3.2</li> </ul> <p>Due by midnight 3/15</p>

Tuesday March 15	<ul style="list-style-type: none"> <li>Q &amp; A Sections 3.1 - 3.2</li> <li>Preview 3.3: Exponential Modeling</li> <li>Preview 3.4: Composition of Functions</li> </ul>	<p>Lecture Videos 3.3A, B, C, D</p> <p>Lecture Video 3.4</p>	<ul style="list-style-type: none"> <li>Worksheet 3.3</li> <li>My Math Lab 3.4</li> </ul> <p>Due by midnight 3/17</p>
Thursday March 17	<ul style="list-style-type: none"> <li>Q &amp; A Section 3.3-3.4</li> <li>Preview 3.5: Inverse Functions</li> </ul>	Lecture Videos 3.5AB, C, D, E	<ul style="list-style-type: none"> <li>My Math Lab 3.5</li> <li>Worksheet 3.5</li> </ul> <p>Due by midnight 3/22</p>
Tuesday March 22	<ul style="list-style-type: none"> <li>Q &amp; A Section 3.5</li> <li>Preview 3.6: Introduction to Logarithms</li> <li>Preview 3.7: Log Functions, Graphs and Applications</li> </ul>	<p>Lecture Videos 3.6A, B</p> <p>Lecture Videos 3.7A, B</p>	<ul style="list-style-type: none"> <li>My Math Lab 3.6</li> <li>Worksheet 3.6</li> <li>Worksheet 3.7</li> </ul> <p>Due by midnight 3/24</p>
Thursday March 24	<ul style="list-style-type: none"> <li>Q &amp; A Section 3.6-3.7</li> <li>Preview 3.8: Solving Log and Exponential Equations</li> </ul>	Lecture Videos 3.8A, B	<ul style="list-style-type: none"> <li>My Math Lab 3.8</li> </ul> <p>Due by midnight 3/29</p>
Tuesday March 29	<ul style="list-style-type: none"> <li>Q &amp; A Section 3.8</li> <li>Preview 3.9: Properties of Logarithms</li> <li>Preview 3.10: Exponential Modeling (revisited)</li> </ul>	<p>Lecture Videos 3.9A, B, C, D</p> <p>Lecture Videos 3.10A, B</p>	<ul style="list-style-type: none"> <li>Worksheet 3.9</li> <li>Worksheet 3.10</li> </ul> <p>Due by midnight 3/31</p>
Thursday March 31	<ul style="list-style-type: none"> <li>Q &amp; A Section 3.9 – 3.10</li> <li>Preview 3.11: Natural Log and Exponential Functions</li> </ul>	Lecture Videos 3.11A, B, C	<ul style="list-style-type: none"> <li>My Math Lab 3.11</li> <li>Worksheet 3.11</li> </ul> <p>Due by midnight 4/5</p> <p><b>**Also Review for Test 3**</b></p>
Tuesday April 5	<ul style="list-style-type: none"> <li>Q &amp; A Section 3.11</li> <li>Review for Test 3</li> </ul>		<ul style="list-style-type: none"> <li><b>Test 3 (take-home style)</b></li> <li><b>Opens at 2 pm 4/5</b></li> <li><b>Due by midnight 4/7</b></li> </ul>
Thursday April 7	<ul style="list-style-type: none"> <li>Preview 4.1: Introduction to Rational Functions</li> <li>Preview 4.2: Operations on Rational Expressions</li> </ul>	<p>Lecture Videos 4.1A, B</p> <p>Lecture Videos 4.2A, B, C</p>	<ul style="list-style-type: none"> <li>My Math Lab 4.1</li> <li>My Math Lab 4.2</li> <li>Worksheet 4.2</li> </ul> <p>Due by midnight 4/12</p>
Tuesday April 12	<ul style="list-style-type: none"> <li>Q &amp; A Section 4.1-4.2</li> <li>Preview 4.3: Solving Rational Equations</li> <li>Preview 4.4: Graphing Rational Functions</li> </ul>	<p>Lecture Videos 4.3A, B</p> <p>Lecture Videos 4.4A, B</p>	<ul style="list-style-type: none"> <li>My Math lab 4.3</li> <li>Worksheet 4.3</li> <li>Worksheet 4.4</li> </ul> <p>Due by midnight 4/14</p>

Thursday April 14	<ul style="list-style-type: none"> <li>• Q &amp; A Section 4.3-4.4</li> <li>• Preview 4.5: Solving Rational Inequalities</li> <li>• Preview 4.6: Modeling and Applications of Rational Functions</li> <li>• Preview 4.7: Introduction to Radicals</li> </ul>	<p>Lecture Videos 4.5A, B</p> <p>Lecture Videos 4.6A, B1, B2</p> <p>Lecture Videos 4.7</p>	<ul style="list-style-type: none"> <li>• Worksheet 4.5</li> <li>• Worksheet 4.6</li> <li>• My Math Lab 4.6</li> <li>• My Math Lab 4.7</li> </ul> <p>Due by midnight 4/19</p>
Tuesday April 19	<ul style="list-style-type: none"> <li>• Q &amp; A Section 4.5-4.7</li> <li>• Preview 4.8: Simplifying Radical Expressions</li> <li>• Preview 4.9: Operations on Radical Expressions</li> </ul>	<p>Lecture Videos 4.8A, B, C</p> <p>Lecture Videos 4.9A, B, C</p>	<ul style="list-style-type: none"> <li>• My Math Lab 4.8</li> <li>• Worksheet 4.9</li> </ul> <p>Due by midnight 4/21</p> <p><b>*Begin Review for Final Exam*</b></p>
Thursday April 21	<ul style="list-style-type: none"> <li>• Q &amp; A Section 4.8-4.9</li> <li>• Preview 4.10: Graphing Radical Functions</li> <li>• Preview 4.11: Solving Radical Equations</li> <li>• Preview 4.12: Modeling and Applications of Radical Functions</li> </ul>	<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"> <li>• Worksheet 4.10</li> <li>• My Math Lab 4.11</li> <li>• My Math Lab 4.12</li> <li>• Worksheet 4.12</li> </ul> <p>Due by midnight 4/26</p> <p><b>*Continue Review for Final*</b></p>
Tuesday April 26	<ul style="list-style-type: none"> <li>• Q &amp; A 4.10-4.12</li> <li>• Review for Final Exam. Note: final exam is split into take-home portion and proctored portion.</li> </ul>		<ul style="list-style-type: none"> <li>• Take home portion of final exam becomes available after class session today. Due by midnight 4/28</li> </ul> <p>Study for Final Exam</p>
Wednesday April 27 Or Thursday April 28	<ul style="list-style-type: none"> <li>• <b>Final Exam to be taken during proctored Zoom call</b></li> <li>• <b>Available times are Wed. 4/27 6 pm – 8:30 pm or Thurs. 4/28 9 am – 11:30 am</b></li> </ul>		<p>Note: Please try to attend one of these exam sessions. If these times are truly impossible, make arrangements with instructor at least 2 weeks in advance to test with our lab.</p>