

## MAT 139.I60 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 March 14	<ul style="list-style-type: none"> <li>Course Introduction</li> <li>Class Discussion 1.1: Functions, Function Notation</li> <li>Class Discussion 1.2: Functions and Graphs</li> <li>Preview P.1-P.3: Linear Functions</li> </ul>	<p>Lecture Videos 1.1A, 1.1B, 1.1C</p> <p>Lecture Videos 1.2A, B, C</p> <p>Lecture Videos P.1 – P.3 (as needed, review material)</p>	<ul style="list-style-type: none"> <li>Worksheet 1.1A</li> <li>Worksheet 1.1B</li> <li>My Math Lab HW 1.1</li> <li>Worksheet 1.2</li> <li>My Math Lab HW 1.2</li> <li>My Math Lab HW P.1-P.3</li> </ul>
Wednesday March 16	<ul style="list-style-type: none"> <li>Class Discussion P.4: Linear Modeling</li> <li>Preview P.5-P.6: Linear Inequalities and Linear Systems</li> <li>Class Discussion 1.3: Introduction to Polynomials</li> <li>Class Discussion 1.4: Simplifying Quadratic Expressions</li> </ul>	<p>Lecture Videos P.4</p> <p>Lecture Videos P.5 – P.6 ( as needed, review material)</p> <p>Lecture Video 1.3</p> <p>Lecture Videos 1.4A, B, C</p>	<ul style="list-style-type: none"> <li>Worksheet P.4</li> <li>My Math Lab HW P.5-P.6</li> <li>Worksheet 1.3</li> <li>Worksheet 1.4</li> <li>My Math Lab HW 1.4</li> </ul>
Monday March 21	<ul style="list-style-type: none"> <li>Class Discussion 1.5: Solving Quadratic Equations</li> <li>Class Discussion 1.6: Graphing Quadratic Functions</li> <li>Class Discussion 1.7: Solving Quadratic Equations by Graphing</li> </ul>	<p>Lecture Videos 1.5A, B1, B2, C</p> <p>Lecture Videos 1.6A, B, C1, C2</p> <p>Lecture Video 1.7</p>	<ul style="list-style-type: none"> <li>Worksheet 1.5</li> <li>My Math Lab HW 1.5</li> <li>Worksheet 1.6</li> <li>Worksheet 1.7</li> </ul> <p>*Begin Review for Test 1*</p>
Wednesday March 23	<ul style="list-style-type: none"> <li>Class Discussion 1.8: Solving Quadratic Inequalities</li> <li>Class Discussion 1.9: Quadratic Modeling</li> <li>Test 1 - Outside of Class</li> <li>On your own do section 2.1: Power Functions and Graphs</li> </ul>	<p>Lecture Videos 1.8A, B</p> <p>Lecture Videos 1.9A,B,C,D,E,F</p>	<ul style="list-style-type: none"> <li>Worksheet 1.8</li> <li>My Math Lab 1.8</li> <li>Worksheet 1.9</li> <li></li> </ul> <p>*Continue Review for Test 1*</p> <ul style="list-style-type: none"> <li>Worksheet 2.1</li> </ul>
Monday March 28	<ul style="list-style-type: none"> <li>Discuss Test 1 and Exam Wrapper</li> <li>Class Discussion 2.2: Simplifying Higher Order Polynomial Expressions</li> <li>Class Discussion 2.3: Polynomial Division</li> <li>Class Discussion 2.4: Solving Higher Order Polynomial Equations</li> </ul>	<p>Lecture Video 2.1</p> <p>Lecture Videos 2.2A, B</p> <p>Lecture Videos 2.3A1, A2, B</p> <p>Lecture Videos 2.4A, B, C, D</p>	<ul style="list-style-type: none"> <li>Exam Wrapper: Test 1</li> <li>Worksheet 2.2</li> <li>My Math Lab 2.2</li> <li>My Math Lab 2.3</li> <li>Worksheet 2.4</li> <li>My Math Lab 2.4</li> </ul>

Wednesday March 30	<ul style="list-style-type: none"> <li>● Class Discussion 2.5: Graphing Higher Order Polynomial Functions</li> <li>● Class Discussion 2.6: Solving Equations using Graphing Technology</li> <li>● Class Discussion 2.7: Solving Higher Order Polynomial Inequalities</li> <li>● Class Discussion 2.8: Modeling with Higher Order Polynomials</li> <li>● Review for Midterm</li> </ul>	<p>Lecture Videos 2.5A,B,C,D</p> <p>Lecture Video 2.6</p> <p>Lecture Videos 2.7A1, A2</p> <p>Lecture Videos 2.8</p>	<ul style="list-style-type: none"> <li>● Worksheet 2.5</li> <li>● My Math Lab 2.5</li> <li>● My Math Lab 2.6</li> <li>● Worksheet 2.7</li> <li>● Worksheet 2.8</li> </ul> <p>*Midterm Review*</p>
Monday April 4	<ul style="list-style-type: none"> <li>● Midterm Exam in class</li> <li>● On your own do section 3.1: Simplifying Exponential Expressions</li> </ul>	Lecture Videos 3.1A, B, C, D1, D2	<ul style="list-style-type: none"> <li>● My Math Lab 3.1</li> </ul>
Wednesday April 6	<ul style="list-style-type: none"> <li>● Discuss Midterm and Exam Wrapper</li> <li>● Class Discussion 3.2: Exponential Functions</li> <li>● Class Discussion 3.3: Exponential Modeling</li> <li>● Preview 3.4: Composition of Functions</li> <li>● Class Discussion 3.5: Inverse Functions</li> </ul>	<p>Lecture Videos 3.2A, B, C, D</p> <p>Lecture Videos 3.3A, B, C, D</p> <p>Lecture Video 3.4</p> <p>Lecture Videos 3.5AB, C, D, E</p>	<ul style="list-style-type: none"> <li>● Exam Wrapper: Midterm</li> <li>● Worksheet 3.2</li> <li>● My Math Lab 3.2</li> <li>● Worksheet 3.3</li> <li>● My Math Lab 3.4</li> <li>● Worksheet 3.5</li> <li>● My Math Lab 3.5</li> </ul>
Monday April 11	<ul style="list-style-type: none"> <li>● Class Discussion 3.6: Introduction to Logarithms</li> <li>● Class Discussion 3.7: Log Functions, Graphs and Applications</li> <li>● Class Discussion 3.8: Solving Log and Exponential Equations</li> </ul>	<p>Lecture Videos 3.6A, B</p> <p>Lecture Videos 3.7A, B</p> <p>Lecture Videos 3.8A, B</p>	<ul style="list-style-type: none"> <li>● Worksheet 3.6</li> <li>● My Math Lab 3.6</li> <li>● Worksheet 3.7</li> <li>● My Math Lab 3.8</li> </ul>
Wednesday April 13	<ul style="list-style-type: none"> <li>● Class Discussion 3.9: Properties of Logarithms</li> <li>● Preview 3.10: Exponential Modeling (revisited)</li> <li>● Class Discussion 3.11: Natural Log and Exponential Functions</li> <li>● Test 3 - Outside of Class</li> <li>● On your own: Do sections 4.1-4.2 Introducing Rational Functions</li> </ul>	<p>Lecture Videos 3.9A, B, C, D</p> <p>Lecture Videos 3.10A, B</p> <p>Lecture Videos 3.11A, B, C</p> <p>Lecture Videos 4.1A, B</p> <p>Lecture Videos 4.2A, B, C</p>	<ul style="list-style-type: none"> <li>● Worksheet 3.9</li> <li>● Worksheet 3.10</li> <li>● Worksheet 3.11</li> <li>● My Math Lab 3.11</li> </ul> <p>**Review for Test 3**</p> <ul style="list-style-type: none"> <li>● My Math Lab 4.1</li> <li>● Worksheet 4.2</li> <li>● My Math Lab 4.2</li> </ul>

Monday April 18	<ul style="list-style-type: none"> <li>• Discuss Test 3 and Exam Wrapper</li> <li>• Class Discussion 4.3: Solving Rational Equations</li> <li>• Class Discussion 4.4: Graphing Rational Functions</li> <li>• Class Discussion 4.5: Solving Rational Inequalities</li> <li>• Class Discussion 4.6: Modeling and Applications of Rational Functions</li> </ul>	<p>Lecture Videos 4.3A, B</p> <p>Lecture Videos 4.4A, B</p> <p>Lecture Videos 4.5A, B</p> <p>Lecture Videos 4.6A, B1, B2</p>	<ul style="list-style-type: none"> <li>• Exam Wrapper: Test 3</li> <li>• Worksheet 4.3</li> <li>• My Math lab 4.3</li> <li>• Worksheet 4.4</li> <li>• Worksheet 4.5</li> <li>• Worksheet 4.6</li> <li>• My Math Lab 4.6</li> </ul>
Wednesday April 20	<ul style="list-style-type: none"> <li>• Class Discussion 4.7: Introduction to Radicals</li> <li>• Class Discussion 4.8: Simplifying Radical Expressions</li> <li>• Preview 4.9: Operations on Radical Expressions</li> </ul>	<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"> <li>• My Math Lab 4.7</li> <li>• My Math Lab 4.8</li> <li>• Worksheet 4.9</li> </ul>
Monday April 25	<ul style="list-style-type: none"> <li>• Class Discussion 4.10: Graphing Radical Functions</li> <li>• Class Discussion 4.11: Solving Radical Equations</li> <li>• Class Discussion 4.12: Modeling and Applications of Radical Functions</li> <li>• Review for Final Exam. Note: final exam is split into take-home portion and proctored portion.</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>• Worksheet 4.12</li> <li>• My Math Lab 4.12</li> <li>• Take home portion of final exam becomes available after class session today.</li> </ul> <p><b>** Review for Final Exam**</b></p>
Wednesday April 27	<ul style="list-style-type: none"> <li>• Final Exam taken in class</li> </ul>		<ul style="list-style-type: none"> <li>• Reminder: Take home portion of final exam due today when you hand in your in-class final!</li> </ul>