

# MTH 112: Course Calendar

## Spring 2017

WEEK	WHAT TO STUDY & READ & PRACTICE FOR EACH TOPIC	ASSIGNMENTS
<p><b>WEEK 1</b></p> <p><b>Starts:</b> Sunday, April 2</p> <p><b>Assignments due:</b> Saturday, April 8 at 11:59pm.</p> <p><b>Drop deadline:</b> Saturday, April 8</p>	<p>Sets and Numbers</p> <ul style="list-style-type: none"> <li>• <b>read &amp; study:</b> online notes: <a href="#">Section I: Chapter 0</a></li> <li>• <b>practice:</b> <a href="#">Extra Practice for Section I: Chapter 0</a></li> </ul> <p>Unit Circle, Radians, Arc-length</p> <ul style="list-style-type: none"> <li>• <b>read &amp; study:</b> <ul style="list-style-type: none"> <li>◦ online lecture notes: <a href="#">Section I: Chapter 1</a></li> <li>◦ §5.1, pages 376-383</li> <li>◦ <a href="#">Supplemental Packet for §5.1:</a> pages 1-3</li> </ul> </li> <li>• <b>practice</b> <ul style="list-style-type: none"> <li>◦ <a href="#">Extra Practice for Section I: Chapter 1</a></li> <li>◦ §5.1: #7, 11–77 odd, 91</li> <li>◦ <a href="#">Supplemental Packet for §5.1:</a> #1, 2</li> </ul> </li> </ul> <p>Introduction to Periodic Functions</p> <ul style="list-style-type: none"> <li>• <b>read &amp; study:</b> online notes: <a href="#">Section I: Chapter 2</a></li> <li>• <b>practice:</b> <a href="#">Extra Practice for Section I: Chapter 2</a></li> </ul>	<p>Intro Discussion Posting</p> <p>Quiz 1</p> <p>Worksheet 1</p>
	Introduction to the	

<p><b>WEEK 2</b></p> <p><b>Starts:</b> Sunday, April 9</p> <p><b>Assignments due:</b> Saturday, April 15 at 11:59pm.</p>	<p><b>Trigonometric Functions</b></p> <ul style="list-style-type: none"> <li>• <b>read &amp; study:</b> <ul style="list-style-type: none"> <li>◦ online lecture notes: <a href="#">Section I: Chapter 3, Part 1</a></li> <li>◦ online lecture notes: <a href="#">Section I: Chapter 3, Part 2</a></li> <li>◦ online lecture notes: <a href="#">Section I: Chapter 3, Part 3</a></li> <li>◦ online lecture notes: <a href="#">Section I: Chapter 3, Part 4</a></li> <li>◦ §5.2, pages 390-401</li> <li>◦ §5.3, pages 407-417</li> </ul> </li> <li>• <b>practice</b> <ul style="list-style-type: none"> <li>◦ <a href="#">Extra Practice for Section I: Chapter 3, Parts 1-4</a></li> <li>◦ §5.2: #1, 8, 9, 10, 13, 15, 17, 21–30 all, 47–65 all, 69, 89, 93, 95, 97, 107, 117, 121</li> <li>◦ §5.3: #5, 7, 9, 10, 27–51 odd, 95–109 all</li> </ul> </li> </ul>	<p><b>Quiz 2</b></p> <p><b>Worksheet 2</b></p>
<p><b>WEEK 3</b></p> <p><b>Starts:</b> Sunday, April 16</p> <p><b>Assignments due:</b> Saturday, April 22 at 11:59pm.</p>	<p><b>Graphing Sinusoidal Functions</b></p> <ul style="list-style-type: none"> <li>• <b>read &amp; study:</b> <ul style="list-style-type: none"> <li>◦ online lecture notes: <a href="#">Section I: Chapter 4</a></li> <li>◦ §5.4, pages 420-430</li> <li>◦ <a href="#">Supplemental Packet for §5.6:</a> pages 4-7</li> </ul> </li> <li>• <b>practice</b> <ul style="list-style-type: none"> <li>◦ <a href="#">Extra Practice for Section I: Chapter 4</a></li> <li>◦ §5.4: #3–9 all, 11–17 odd, 21–34 all, 35–51 odd, 57–71 odd, 85</li> <li>◦ §5.6: #3, 5, 7, 13, 15, 17, 27</li> <li>◦ <a href="#">Supplemental Packet for §5.6:</a> #1, 2</li> </ul> </li> </ul> <p><b>Graphing the Other Trigonometric Functions</b></p> <ul style="list-style-type: none"> <li>• <b>read &amp; study:</b> online notes: <a href="#">Section I: Chapter 5</a></li> <li>• <b>practice:</b> <a href="#">Extra Practice for Section I: Chapter 5</a></li> </ul>	<p><b>Quiz 3</b></p> <p><b>Worksheet 3</b></p>

<p><b>WEEK 4</b></p> <p><b>Starts:</b> Sunday, April 23</p> <p><b>Assignments due:</b> Saturday, April 29 at 11:59pm.</p>	<p><b>Inverse Trig Functions &amp; Solving Trig Equations</b></p> <ul style="list-style-type: none"> <li>• <b>read &amp; study:</b> <ul style="list-style-type: none"> <li>◦ online lecture notes: <a href="#">Section I: Chapter 6</a></li> <li>◦ §6.1, pages 464-472</li> <li>◦ §6.3, pages 482-487</li> </ul> </li> <li>• <b>practice</b> <ul style="list-style-type: none"> <li>◦ <a href="#">Extra Practice for Section I: Chapter 6</a></li> <li>◦ §6.1: #1, 3, 5, 6, 13–29 odd, 37-51 odd</li> <li>◦ §6.2: #9–17 odd, 21, 35</li> <li>◦ §6.3: #2, 7, 8, 10, 11–19 odd, 23, 25, 29, 35–43 odd, 57, 59, 93</li> </ul> </li> </ul> <p><b>Right Triangle Trigonometry</b></p> <ul style="list-style-type: none"> <li>• <b>read &amp; study:</b> <ul style="list-style-type: none"> <li>◦ online lecture notes: <a href="#">Section I: Chapter 7</a></li> <li>◦ §7.1, pages 532-537</li> </ul> </li> <li>• <b>practice</b> <ul style="list-style-type: none"> <li>◦ <a href="#">Extra Practice for Section I: Chapter 7</a></li> <li>◦ §7.1: #9–17 odd, 29–51 odd</li> </ul> </li> </ul>	<p><b>Quiz 4</b></p> <p><b>Worksheet 4</b></p>
<p><b>WEEK 5</b></p> <p><b>Starts:</b> Sunday, April 30</p> <p><b>Ends:</b> Saturday, May 6</p>	<p><b>Study for the Midterm Exam</b></p> <p><b>Get started on Week 6</b></p>	<p><b>MIDTERM</b></p> <p>Wed., May 3 Sylvania Campus TCB 213 6 pm - 8 pm or by appointment</p>
	<p><b>Review of Identities</b></p> <ul style="list-style-type: none"> <li>• <b>read &amp; study:</b> online notes: <a href="#">Section II: Chapter I</a></li> </ul>	

<p><b>WEEK 6</b></p> <p><b>Starts:</b> Sunday, May 7</p> <p><b>Assignments due:</b> Saturday, May 13 at 11:59pm.</p>	<p><b>Laws of Sines and Cosines</b></p> <ul style="list-style-type: none"> <li>• <b>read &amp; study:</b> <ul style="list-style-type: none"> <li>◦ online lecture notes: <a href="#">Section II: Chapter 2</a></li> <li>◦ §7.2, pages 544-541</li> <li>◦ §7.3, pages 555-558</li> </ul> </li> <li>• <b>practice</b> <ul style="list-style-type: none"> <li>◦ <a href="#">Extra Practice for Section II: Chapter 2</a></li> <li>◦ §7.2: #9–17 odd, 23, 25, 31, 33, 35, 39, 47</li> <li>◦ §7.3: #9–21 odd, 25, 27, 33–43 odd</li> </ul> </li> </ul> <p><b>Proving Trigonometric Identities</b></p> <ul style="list-style-type: none"> <li>• <b>read &amp; study:</b> <ul style="list-style-type: none"> <li>◦ online lecture notes: <a href="#">Section II: Chapter 3</a></li> <li>◦ §6.4, pages 491-496</li> </ul> </li> <li>• <b>practice</b> <ul style="list-style-type: none"> <li>◦ <a href="#">Extra Practice for Section II: Chapter 3</a></li> <li>◦ §6.4: #1, 2, 4–8 all, 11, 19, 23–33 odd, 39, 47, 51, 57, 59, 63, 73</li> </ul> </li> </ul>	<p><b>Quiz 5</b></p> <p><b>Worksheet 5</b></p>
<p><b>WEEK 7</b></p> <p><b>Starts:</b> Sunday, May 14</p> <p><b>Assignments due:</b> Saturday, May 20 at 11:59pm.</p>	<p><b>Sum and Difference Identities</b></p> <ul style="list-style-type: none"> <li>• <b>read &amp; study:</b> <ul style="list-style-type: none"> <li>◦ online lecture notes: <a href="#">Section II: Chapter 4</a></li> <li>◦ §6.5, pages 499-504</li> </ul> </li> <li>• <b>practice</b> <ul style="list-style-type: none"> <li>◦ <a href="#">Extra Practice for Section II: Chapter 4</a></li> <li>◦ §6.5: #5, 6, 11–21 odd, 33, 39, 47, 49, 51, 57, 58</li> </ul> </li> </ul> <p><b>Double-Angle and Half-Angle Identities</b></p> <ul style="list-style-type: none"> <li>• <b>read &amp; study:</b></li> </ul>	<p><b>Quiz 6</b></p> <p><b>Worksheet 6</b></p>

	<ul style="list-style-type: none"><li>◦ online lecture notes: <a href="#">Section II: Chapter 5</a></li><li>◦ §6.6, pages 511-518</li><li>• <b>practice</b><ul style="list-style-type: none"><li>◦ <a href="#">Extra Practice for Section II: Chapter 5</a></li><li>◦ §6.6: #7, 11, 13, 19, 47</li></ul></li></ul>	
<div>WEEK 8</div> <div>Starts: Sunday, May 21</div> <div>Assignments due: Saturday, May 27 at 11:59pm.</div> <div>Withdraw deadline: Saturday, May 27</div>	<div>Introduction to Polar Coordinates</div> <ul style="list-style-type: none"><li>• <b>read &amp; study:</b><ul style="list-style-type: none"><li>◦ online lecture notes: <a href="#">Section III: Chapter 1</a></li><li>◦ §8.1, pages 584-590</li></ul></li><li>• <b>practice</b><ul style="list-style-type: none"><li>◦ <a href="#">Extra Practice for Section III: Chapter 1</a></li><li>◦ §8.1: #6, 7, 8, 9–33 odd, 39–47 odd, 55–61 odd</li></ul></li></ul> <div>Polar Equations and Functions</div> <ul style="list-style-type: none"><li>• <b>read &amp; study:</b><ul style="list-style-type: none"><li>◦ online lecture notes: <a href="#">Section III: Chapter 2</a></li><li>◦ §8.1, pages 590-591</li><li>◦ §8.2, pages 593-605</li></ul></li><li>• <b>practice</b><ul style="list-style-type: none"><li>◦ <a href="#">Extra Practice for Section III: Chapter 2</a></li><li>◦ §8.1: #67–79 odd</li><li>◦ §8.2: #13–19 odd, 37, 41, 49, 51</li></ul></li></ul> <div>Complex Numbers</div> <ul style="list-style-type: none"><li>• <b>read &amp; study:</b><ul style="list-style-type: none"><li>◦ online lecture notes: <a href="#">Section III: Chapter 3</a></li><li>◦ §8.3, pages 608-610</li><li>◦ <a href="#">Supplemental Packet for §8.3:</a> pages 8-10</li></ul></li><li>• <b>practice</b><ul style="list-style-type: none"><li>◦ <a href="#">Extra Practice for Section III: Chapter 3</a></li><li>◦ §8.3: #11–19 odd, 23–27 odd</li></ul></li></ul>	<div>Quiz 7</div> <div>Worksheet 7</div>

	<ul style="list-style-type: none"><li>◦ <a href="#">Supplemental Packet for §8.3</a>: #1, 2</li></ul>	
<div>WEEK 9</div> <div>Starts: Sunday, May 28</div> <div>Assignments due: Saturday, June 3 at 11:59pm.</div>	<div>Introduction to Vectors</div> <ul style="list-style-type: none"><li>• <b>read &amp; study:</b><ul style="list-style-type: none"><li>◦ online lecture notes: <a href="#">Section IV: Chapter 1</a></li><li>◦ §8.4, pages 616-623</li></ul></li><li>• <b>practice</b><ul style="list-style-type: none"><li>◦ <a href="#">Extra Practice for Section IV: Chapter 1</a></li><li>◦ §8.4: #1, 2, 3, 5, 7, 8, 9, 11, 13, 15, 25, 27–45 odd, 57–67 odd</li></ul></li></ul> <div>The Dot Product</div> <ul style="list-style-type: none"><li>• <b>read &amp; study:</b><ul style="list-style-type: none"><li>◦ online lecture notes: <a href="#">Section IV: Chapter 2</a></li><li>◦ §8.5, pages 630-633</li></ul></li><li>• <b>practice</b><ul style="list-style-type: none"><li>◦ <a href="#">Extra Practice for Section IV: Chapter 2</a></li><li>◦ §8.5: #2, 3, 4, 7–15 odd</li></ul></li></ul>	<div>Quiz 8</div> <div>Worksheet 8</div>
<div>WEEK 10</div> <div>Starts: Sunday, June 4</div> <div>Assignments due: Saturday, June 10 at 11:59pm.</div>	<div>Introduction to Parametric Equations</div> <ul style="list-style-type: none"><li>• <b>read &amp; study:</b><ul style="list-style-type: none"><li>◦ online lecture notes: <a href="#">Section V: Chapter 1</a></li><li>◦ §9.7, pages 705-708</li></ul></li><li>• <b>practice</b><ul style="list-style-type: none"><li>◦ <a href="#">Extra Practice for Section V: Chapter 1</a></li><li>◦ §9.7: #7, 9, 19, 21, 25</li></ul></li></ul> <div>Parametric and Implicit Equations (not tested on Final)</div> <ul style="list-style-type: none"><li>• <b>read &amp; study:</b><ul style="list-style-type: none"><li>◦ online lecture notes: <a href="#">Section V: Chapter 2</a></li><li>◦ online lecture notes: <a href="#">Section V:</a></li></ul></li></ul>	<div>Study for the Final Exam</div>

	<a href="#">Chapter 3</a> <ul style="list-style-type: none"><li>◦ §9.3, pages 669-677</li><li>◦ §9.4, pages 679-688</li></ul>	
<div>FINALS WEEK</div> <div>Starts: Sunday, June 11</div> <div>Ends: Saturday, June 17</div>	<div>FINAL EXAM</div> <div>Wednesday, June 14, 6 pm - 8 pm Sylvania Campus, TCB 213</div> <div>(or by appointment at a college testing center)</div>	