

MTH 112 COURSE CALENDAR Winter 2017

NOTE: The symbol “§” refer to sections in the textbook, e.g., “§5.1” refers to Section 5.1 of the textbook.

<p>Week 1 Tues 1/10</p>	<p>Sets and Numbers (not discussed in-class; review on your own)</p> <ul style="list-style-type: none"> • <i>read & study:</i> in-class handout and online notes (Section I: Chapter 0) • <i>practice:</i> Extra Practice for Section I: Chapter 0 <p>Unit Circle, Radians, Arc-length</p> <ul style="list-style-type: none"> • <i>read & study:</i> in-class and/or online notes (Section I: Chapter 1) <ul style="list-style-type: none"> • §5.1, pages 376-383 • Supplemental Packet for §5.1: pages 1-3 • <i>practice:</i> Extra Practice for Section I: Chapter 1 <ul style="list-style-type: none"> • §5.1: #7, 11–77 odd, 91 • Supplemental Packet for §5.1: #1, 2
<p>Week 1 Thurs 1/12</p>	<p>SNOW DAY: NO CLASS</p> <p><i>Study the following on your own:</i></p> <p>Introduction to Periodic Functions</p> <ul style="list-style-type: none"> • <i>read & study:</i> online notes (Section I: Chapter 2) • <i>practice:</i> Extra Practice for Section I: Chapter 2
<p>Week 2 Tues 1/17</p>	<p>SNOW DAY: NO CLASS</p>
<p>Week 2 Thurs 1/19</p>	<p>Introduction to the Trigonometric Functions</p> <ul style="list-style-type: none"> • <i>for class:</i> in-class and/or online notes (Section I: Chapter 3, Part 1) <ul style="list-style-type: none"> • in-class and/or online notes (Section I: Chapter 3, Part 2) • <i>study on your own</i> (<i>due to snow cancellations</i>) <ul style="list-style-type: none"> • online notes (Section I: Chapter 3, Part 3) <ul style="list-style-type: none"> • three videos (1st: 30°, 2nd: 60°, 3rd: 45°) • online notes (Section I: Chapter 3, Part 4) • <i>read:</i> •§5.2, pages 390-40 <ul style="list-style-type: none"> • §5.3, pages 407-417 • <i>practice:</i> Extra Practice for Section I: Chapter 3, Parts 1–4 <ul style="list-style-type: none"> • §5.2: #1, 8, 9, 10, 13, 15, 17, 21–30 all, 47–65 all, 69, 89, 93, 95, 97, 107, 117, 121 • §5.3: #5, 7, 9, 10, 27–51 odd, 95–109 all

Week 3 Tues 1/24	finish: Introduction to the Trigonometric Functions start: Graphing Sinusoidal Functions (study the problems listed for next class)
Week 3 Thurs 1/26	Graphing Sinusoidal Functions <ul style="list-style-type: none"> • <i>read & study:</i> •in-class and/or online notes (Section I: Chapter 4) <ul style="list-style-type: none"> •§5.4, pages 420-430 •Supplemental Packet for §5.6: pages 4-7 • <i>practice:</i> •Extra Practice for Section I: Chapter 4 <ul style="list-style-type: none"> •§5.4: #3–9 all, 11–17 odd, 21–34 all, 35–51 odd, 57–71 odd, 85 •§5.6: #3, 5, 7, 13, 15, 17, 27 •Supplemental Packet for §5.6: #1, 2
Week 4 Tues 1/31	finish: Graphing Sinusoidal Functions Graphing the Other Trigonometric Functions <ul style="list-style-type: none"> • <i>read & study:</i> online notes (Section I: Chapter 5) • <i>practice:</i> Extra Practice for Section I: Chapter 5
Week 4 Thurs 2/2	Catch-up and Review
Week 5 Tues 2/7	EXAM 1
Week 5 Thurs 2/9	Inverse Trig Functions & Solving Trig Equations <ul style="list-style-type: none"> • <i>read & study:</i> •in-class and/or online notes (Section I: Chapter 6) <ul style="list-style-type: none"> •§6.1, pages 464-472 •§6.3, pages 482-487 • <i>practice:</i> •Extra Practice for Section I: Chapter 6 <ul style="list-style-type: none"> •§6.1: #1, 3, 5, 6, 13–29 odd, 37–51 odd •§6.2: #9–17 odd, 21, 35 •§6.3: #2, 7, 8, 10, 11–19 odd, 23, 25, 29, 35–43 odd, 57, 59, 93
Week 6 Tues 2/14	Right Triangle Trigonometry <ul style="list-style-type: none"> • <i>read & study:</i> •in-class and/or online notes (Section I: Chapter 7) <ul style="list-style-type: none"> •§7.1, pages 532-537 • <i>practice:</i> •Extra Practice for Section I: Chapter 7 <ul style="list-style-type: none"> •§7.1: #9–17 odd, 29–51 odd

<p>Week 6 Thurs 2/16</p>	<p>Laws of Sines and Cosines</p> <ul style="list-style-type: none"> • <i>read & study</i>: •in-class and/or online notes (Section II: Chapter 2) <ul style="list-style-type: none"> •§7.2, pages 544-541 •§7.3, pages 555-558 • <i>practice</i>: •Extra Practice for Section II: Chapter 2 <ul style="list-style-type: none"> •§7.2: #9–17 odd, 23, 25, 31, 33, 35, 39, 47 •§7.3: #9–21 odd, 25, 27, 33–43 odd
<p>Week 7 Tues 2/21</p>	<p>Proving Trigonometric Identities</p> <ul style="list-style-type: none"> • <i>read & study</i>: •in-class and/or online notes (Section II: Chapter 3) <ul style="list-style-type: none"> •§6.4, pages 491-496 • <i>practice</i>: •Extra Practice for Section II: Chapter 3 <ul style="list-style-type: none"> •§6.4: #1, 2, 4–8 all, 11, 19, 23–33 odd, 39, 47, 51, 57, 59, 63, 73 <p>Double-Angle and Half-Angle Identities</p> <ul style="list-style-type: none"> • <i>read & study</i>: •in-class and/or online notes (Section II: Chapter 5) <ul style="list-style-type: none"> •§6.6, pages 511-518 • <i>practice</i>: •Extra Practice for Section II: Chapter 5 <ul style="list-style-type: none"> •§6.5: #57, 11, 13, 19, 47
<p>Week 7 Thurs 2/23</p>	<p>Introduction to Polar Coordinates</p> <ul style="list-style-type: none"> • <i>read & study</i>: •in-class and/or online notes (Section III: Chapter 1) <ul style="list-style-type: none"> •§8.1, pages 584-590 • <i>practice</i>: •Extra Practice for Section III: Chapter 1 <ul style="list-style-type: none"> •§8.1: #6, 7, 8, 9–33 odd, 39–47 odd, 55–61 odd <p>Polar Equations and Functions</p> <ul style="list-style-type: none"> • <i>read & study</i>: •in-class and/or online notes (Section III: Chapter 2) <ul style="list-style-type: none"> •§8.1, pages 590-591 •§8.2, pages 593-605 • <i>practice</i>: •Extra Practice for Section III: Chapter 2 <ul style="list-style-type: none"> •§8.1: #67–79 odd •§8.2: #13–19 odd, 37, 41, 49, 51
<p>Week 8 Tues 2/28</p>	<p>Sum & Difference Identities plus Modeling with Sinusoidal Functions</p> <ul style="list-style-type: none"> • <i>read & study</i>: •in-class and/or online notes (Section II: Chapter 4) <ul style="list-style-type: none"> •§6.5, pages 499-504 • <i>practice</i>: •Extra Practice for Section II: Chapter 4 <ul style="list-style-type: none"> •§6.5: #5, 6, 11–21 odd, 33, 39, 47, 49, 51, 57, 58
<p>Week 8 Thurs 3/2</p>	<p>Catch-up and Review</p>

Week 9 Tues 3/7	EXAM 2
Week 9 Thurs 3/9	<p>Complex Numbers</p> <ul style="list-style-type: none"> • <i>read & study</i>: •in-class and/or online notes (Section III: Chapter 3) <ul style="list-style-type: none"> •§8.3, pages 608-610 •Supplemental Packet for §8.3: pages 8-10 • <i>practice</i>: •Extra Practice for Section III: Chapter 3 <ul style="list-style-type: none"> •§8.3: #11–19 odd, 23–27 odd •Supplemental Packet for §8.3: #1, 2 <p>Introduction to Vectors (study the problems listed for next class)</p>
Week 10 Tues 3/14	<p>More: Introduction to Vectors</p> <ul style="list-style-type: none"> • <i>read & study</i>: •in-class and/or online notes (Section IV: Chapter 1) <ul style="list-style-type: none"> •§8.4, pages 616-623 • <i>practice</i>: •Extra Practice for Section IV: Chapter 1 <ul style="list-style-type: none"> •§8.4: #1, 2, 3, 5, 7, 8, 9, 11, 13, 15, 25, 27–45 odd, 57–67 odd <p>The Dot Product (study the problems listed for next class)</p>
Week 10 Thurs 3/16	<p>More: The Dot Product</p> <ul style="list-style-type: none"> • <i>read & study</i>: •in-class and/or online notes (Section IV: Chapter 2) <ul style="list-style-type: none"> •§8.5, pages 630-633 • <i>practice</i>: •Extra Practice for Section IV: Chapter 2 <ul style="list-style-type: none"> •§8.5: #2, 3, 4, 7–15 odd <p>Introduction to Parametric Equations</p> <ul style="list-style-type: none"> • <i>read & study</i>: •in-class and/or online notes (Section V: Chapter 1) <ul style="list-style-type: none"> •§9.7, pages 705-708 • <i>practice</i>: •Extra Practice for Section V: Chapter 1 <ul style="list-style-type: none"> •§9.7: #7, 9, 19, 21, 25
Finals Week	Optional Review Session: Tuesday, March 21, 2:00 pm – 4:20 pm
	FINAL EXAM: Thursday, March 23, 2:00 pm – 4:20 pm