# MTH 103 Course Calendar Fall 2019

Below is an approximate timetable for the course. Your section may be slightly ahead or behind this schedule at any given time. Adjustments will be announced in class as needed.

| Week of | Content, Events | Suggested Practice Problems |
|---|---|---|
| 9/2 | *Classes Begin Wednesday 9/4*<br>1.1 What is a Function?<br>1.2 Functions and Expressions | (1.1): #1,2,3,5,7,9,11,13,15,17,19,21,25,27,31,32,33,37,39<br>(1.2): #1,5,9,11,15,17,19,20,21,25,27,29,31,33,35,37,39 |
| 9/9 | **Algebra Diagnostic Exam – in Class on either Mon. 9/9 or Tues. 9/10**<br>1.3 Functions and Equations<br>1.4 Functions and Change | (1.3): #1,3,5,7,11,17,19,21,27,29,33,35(a),37,39,45,47,49,51,53,63,67<br>(1.4): #1,3,5,7,9,11,13,17,19,21,23,24,27,31,34,35,37,39 |
| 9/16 | 2.1 Introduction to Linear Functions<br>2.2 Linear Expressions<br>2.3 Linear Equations | (2.1): #1,5,7,9,11,15,16,17,19,21,25,27,37,41,43,45,47, 49<br>(2.2): #3,5,9,11,12,13,15,17,23,25,26,27,29,31,33,34,37,43,45,47,49,51,53,55,59,61,67<br>(2.3): #1,2,3,4,5,7,9,11,13,14,19,23,35,37,39,41,43,45,47,51,61,63,65,67 |
| 9/23 | 2.4 Equations for Lines in the Plane<br>3.1 Introduction to Quadratic Functions<br>3.2 Quadratic Expressions | (2.4): #1,3,5,7,9,13,15,17,19,21,23,25,27,31,33,35,37,38,39,40,41,43,45,46,47,48,49,59, 61,62,63,65,67,71,73<br>(Chapter 2 Review): 77-82 (for these, if a function is linear, find a formula)<br>(3.1): #1,3,5,6,9,11,13,15,17,18,21,23,25,27,33<br>(3.2): #1,3,4,5,7,9,11,13,15,16,17,19,21,23,25,27,29,31,33,35,37,38,41,42,44,46,57 |
| 9/30 | **Exam 1 Wed. 10/2 6-7:30 P.M.***<br>3.3 Converting to Factored and Vertex Form<br>3.4 Quadratic Equations | (3.3): #3,5,6,7,9,13,15,16,17,19,21,25,27,31,33,35,36,37,39,41,43,45,47<br>(3.4): #3,5,9,10,11,13,15,17,19,21,23,25,27,29,31,33,35, 37,39,41,43,45,47,49,51,53,55, 57,59,61,63,65,66,67,71 |
| 10/7 | 4.1 Power Functions: Positive Exponents<br>4.2 Power Functions: Negative and Fractional Exponents<br>4.3 Power Functions and Expressions | (4.1): #1,5,13,15,17,21,23,24,25,28,29,30,31<br>(4.2): #1,4,5,7,9,11,13,14,15,16,17,18,19,21,23,25,27,29,31<br>(4.3): #1-9,11,13,15,17,19,20,21,23,25,27,29,31,33-40,50,51,53,54,55,57,59,65,70,71,72 |
| 10/14 | *Monday classes meet Tuesday.*<br>4.4 Power Functions and Equations<br>5.1 Domain and Range | (4.4): #1-5,7,13,15,23,25,27,31,33,35,37,38,41,43,45,47,49,55,57,79<br>(Chapter 4 Review): 1,2,3,4,5,6,7,8,9,14,15,17,20,21,27; page 175: 1,9,17,19<br>(5.1): #1,5,6,7,9,11,13,15,17,19,25,27,29,32,35,37,39,41,43,45,51,55,57,59,60 |
| 10/21 | 5.2 Composing and Decomposing Functions<br>5.3 Shifting and Scaling | (5.2): #1,2,3,4,7,8,9,10,11,12,13,17,20,22,24,25,30,31,33,35,37,38,41<br>(5.3): #1,2,3,4,7,,9,11,13,15,17,19,21,23,25,29,31,35,37,41,43,45 |
| 10/28 | **Exam 2 Wed. 10/30 6-7:30 P.M. ***<br>6.1 Exponential Functions<br>6.2 Exponential Expressions: Growth Rates | (6.1): #1,3,5,7,8,9,13,14,15,19-23,25,29,31,32,34,43-45,47,49<br>(6.2): #1,3,5,7,9,11,21,23,25,33,36,37,40-45,50,51,53,57-59 |
| 11/4 | 6.3 Exponential Expressions: Half-Life and Doubling Time<br>6.6 Exponential Functions and Base e<br>7.1 Introduction to Logarithms | (6.3): #1,3,5,7,9,11,13,19,21,23,25,27,39,41,43,48,51,53<br>(6.6): #1,3,5,7,9,11,15,17,19,24,25,27,29,33,37<br>(7.1): #1,2,3,5,6,8,9,11,13,33,35,36,37,39,41,43,45,46,47,49,51,53,54,55,56,57,58,59, 61,63,65,73,74,76,77,79,81 |
| 11/11 | *No Classes Monday*<br>7.2 Solving Equations Using Logarithms<br>7.3 Application of Logarithms to Modeling | (7.2): #9,11,13,15,17,19,25,27,31,33,35,37,39,41,43,45,47,51,53,55,57,58-61,63<br>(7.3): #1,3,5,7,9,11,13,15,19,21,26,27,28,29,31,33,37,39,45,49,51,54 |
| 11/18 | 7.4 Natural Logarithms and Other Bases<br>5.4 Inverse Functions<br>Trig Handout H1: Periodic Functions | (7.4): #1,3,5,6,7,8,9,10,11,13,15,20,24,21,23,25,26,27,29,31,33,36,37,39,41,49,50,51,53<br>(5.4): #1,3,5,7-11,13,17,19,33,35<br>(Trig Handout H1): #1-6 |
| 11/25 | *No classes Wed, Thu, Fri. Thanksgiving Recess.*<br>Trig Handout H2: Angles on the Unit Circle & Radian Measure | (Trig Handout H2): #1-21 |
| 12/2 | **Exam 3 Wed. 12/4 6-7:30 P.M. ***<br>Trig Handout H3: Sine and Cosine on Unit Circle<br>Trig Handout H4: Trigonometric Functions and Modeling | (Trig Handout H3): #1-11<br>(Trig Handout H4): #1-13 |
| 12/9 | Review<br>*Last Day of Classes Tuesday 12/10* | |

*Location for each section TBA