

**Math 105 MWF**  
**College Algebra**

**Text:** *Algebra: Form and Function*, McCallum, Connally, Hughes-Hallett, Wiley, 2010

**Prerequisites:** ACT score of at least 21; or Placement in MATH 105 by the Mathematics Department Placement Exam.

**WILEY PLUS and TI-83 Graphics Calculator are required.**

Study groups, tutoring, and other related services are located in The Learning Center in Lee Hall

**Wiley Plus Exercises (WP) are to be done online.**

Lesson	Section and Topic	Assignment
1	Basic Review	Chapter 1 Review: 1,2,9,17,19,20,26,61,99 Chapter 2 Review: 3,23,35,68,71 Chapter 3 Review: 3,11,21,25,30-34,36,37,38
2	4.1 What is a Function?	3,4,14,15,18,20,23,24,25,28,29,31,32,34,35,38,39,45,46 Section 4.1 WP Online (2,8,11,22,25,27,43)
3	4.2 Functions and Expressions	6,7,11,12,15,20,21,22,24,27,28 Section 4.2 WP Online (14,19,23,25,31)
4	4.3 Functions and Equations	1,10,11,12,13,14,15,17,19,20,21,22,27,29,32 Note: 20 add (f) Solve using Quadratic Formula Section 4.3 WP Online (4,8,16,23,25,31)
5	4.4 Functions and Change	6,9,10,12,18,19,23,24,25,29,30 Section 4.4 WP Online (3,5,12,13,14)
6	4.5 Functions and Modeling	3,4,7,8,13,20,22,23,24,25 27,29,32,33,34,40 Section 4.5 WP Online (5,10,15,19,39)
7	8.1 Domain and Range; Interval Notation	4,5,7,8,9,10,13,14,16,19,20,28,29,30,31,33,34,36,37,39,41 Use Interval Notation Section 8.1 WP Online (11,12,17,21,22,23,26)
8	8.2 Composing and Decomposing Functions	7,9,11,12,13,15,20,21,22,27,30,31,34,35 Section 8.2 WP Online (4,16,33)
	8.3 Shifting and Scaling	1,3,5,11,12,13,14,17,18,19,22,32,37 Section 8.3 WP Online (7,10,15,21,30,33,36,38,45)
9	Chapter 4 Review	9,10,11,12,14,17,22,30,31,32,33,35,38,39,40,42,45,49,54,58,63,68,69,70,71,76,78,81 (omit 59-61 and 64-67) Chapter 4 Review WP Online (1,3,4,7,10,13,15,18,21,23,25,28,36,41,43,55,74,77)
	Chapter 8 Review	Chapter 8 Review 3,4,5,6,8,11,13,16,17,18,19,20,21,23-30,32,43,45,47,48,52-62,64
10	Test 1 Chapter 4 and 8.1,8.2,8.3	Worksheet 1
11	5.1 Linear Functions	2,11,14,20,21,30,32,35,36,37,40,42,43 Section 5.1 WP Online (10,12,23,33,41)
12	5.2 Working with Linear Expressions	4,10,11,14,16,22,24,26,28,31,32,34,35,48,52,55,56,58 Section 5.2 WP Online (6,7,13,18,21,25)
13	5.3 Solving Linear Equations	1,2,4,7,8,12,34,35,37,39,42,53,54 Section 5.3 WP Online (3,5,16,32,51,52,56)
	5.4 Equations for Lines in the Plane	10,20,33,34,36,47,49,53,54,55,56,60,63,67 Section 5.4 WP Online (3,8,14,36,64,68)
14	5.5 Modeling with Linear Functions	4,5,9,11,14,Worksheet 2 Section 5.5 WP Online (2,8,10,15,17,19,20)
15	5.6 Systems of Linear Equations	22,28,30,32,43,46 Section 5.6 WP Online (3,14,24,25,40,42,48)
	Chapter 6 Rules for Exponents	Section 6.1 WP Online (24,29,49,54,55,56,65,74,75,80,82,93,101) Section 6.2 WP Online (3,6,8,11,13,14,15,21)
16	7.1 Power Functions	14,17,18,30,32,33 Section 7.1 WP Online (7,15,16,19,29,31)
17	7.2 Working with Power Functions	17,18,21,26,38,39,41,45,48,53,54,70 Section 7.2 WP Online (3,5,7,8,10,24,40,42,43)
	7.3 Solving Power Equations	4,10,17,43,46,47,48,49,54,56,69,75,76 Section 7.3 WP Online (11,12,19,44,50,52,61)
18	7.4 Modeling with Power Functions	1,3,5,8,10,11,13,17,21,28,30 Section 7.4 WP Online (7,14,19,29)
19	Chapter 5 Review	3,4,5,6,7,8,9,10,13,14,15,17,25,26,29,34,37,56,57,59,61,65,66,86,88,92,97,98,99, 102,104,111,112,114,115,116,117,119,121,122,123,125,128,131,132,157,158,161,171
	Chapter 6 Review	Chapter 6 Review WP Online (12,24,29,48,50)
	Chapter 7 Review	6,10,12,15,17,20,24,26,27,28,31,34,37,40,41,60,61
20	Test 2 Chapters 5,6,and 7	
21	10.1 Exponential Functions	8,9,12,14,15,17,18,21,22,24,25,26,32,35 Section 10.1 WP Online (6,7,11,23,27,28,29,33,34,37)
22	10.2 Working with Base of an Exponential Expression	7,10,11,13,16,17,25,29,32,33,34,37,42,43,44,46,47,51 Section 10.2 WP Online (3,4,9,13,18,20,22,23,26,38,39,45,49)
23	10.3 Working with the Exponent of an Exponential Expression	3,5,7,9,21,27,29,38,39,40,42,43,45,47 Section 10.3 WP Online (6,8,22,25,37,41,46,51)
24	10.4 Exponential Equations	5,13,14,19,21,22,24,27,31,32 Section 10.4 WP Online (4,6,17,19a,25,26,29)
25	10.5 Modeling with Exponential Functions	5,9,25,26,29,32,33,37,38,39,Worksheet 4 Section 10.5 WP Online (2,7,8,23,28,35)
	10.6 Exponential Functions and Base e	4,5,8,9,16, Worksheet 5 Section 10.6 WP Online (1,3,6,10,15,23)

Lesson	Section and Topic	Assignment
26	11.1 Introduction to Logarithms	4,19,23,26,29,31,34,45,71,73,75 Section 11.1 WP Online (1,11,17,20,22,27,70 72)
27	11.2 Solving Exponential Equations using Logarithms	24,37,38,47,49,51,56,57,59,60,61,63 Section 11.2 WP Online (6,9,10,45,46,48,50,58)
28	11.3 Applications of Logarithms to Modeling	5,20,23,25 Section 11.3 WP Online (6,11,12,18,19,24,27,28)
29	11.4 Natural Logs and Logs to other Bases	3,7,11,12,17,19,22,36,37,38,39,42 Section 11.4 WP Online (6,14,15,18,20,26,40,41)
30	Chapter 10 Review	1,2,3,5,7,9,11,19,20,25,26,29,30,31,34,35,36,37,39,46,55,57,59, 61,63,64,65,66,67,68,70,72,74,75,76,82,83
	Chapter 11 Review	4,9,10,13,43,49,51,59,64,68,69,79,93,98,102,115,117,149,151,153,156,157,162,164
31	Test 3 Chapters 10 and 11	
32	9.1 Quadratic Functions	1,3,5,10,12,21,25,26,27 30,31 Section 9.1 WP Online (2,4,7,8,18,22,23,24,29,32)
33	9.2 Working with Quadratic Functions	1,3,4,6,7,8,10,13,17,24,27,35,37,40,44,51,55,56,57,58,62,65,66,67 Section 9.2 WP Online (2,5,14,34,46,54,61,64)
34	9.3 Quadratic Equations	13,15,18,23,30b,34b,40b,47,56,60,62 Section 9.3 WP Online (1,5,7,16,19,46,54,64)
	9.4 Solving Quadratic Equations by Factoring	9,11,13,27,30,32,35,37,43,46,47,57,61,67,Worksheet 3 Section 9.4 WP Online (10,18,24,29,38,39,40)
35	Worksheet 6	
	12.1 Polynomial Functions	Section 12.1 WP Online (24,28)
	12.3 Solving Polynomial Equations	7,11,12,21,31,35 Section 12.3 WP Online (22,24,26,49)
	12.4 Long Run Behavior of Polynomials	6,9,12,13,15,19 Section 12.4 WP Online (3,5,11,14)
36	Chapter 9 Review	Chapter 9 Review 5,8,10,12,15,18,19,22,33,37,39,40,44,45,49,51,53,54, 66,67,84,85,86,88,89,91,92,93,95-99,101,103,104,113,114,(omit 70-83)
	Chapter 12 Review	Chapter 12 Review 11,17,22,31,32,33,34,35,36,53,55,59,61,62,80,81,82,83
37	Test 4 Chapters 9 and 12	
38	8.4 Inverse Functions	6,11,12,14,16,17,18,19,20,21,26,27,31,32,34 Section 8.4 WP Online (7,8,13,15,24,29,30)
39	13.1 Rational Functions	5,9,16,17,19,31 Section 13.1 WP Online (7,15,26,27)
40	Review for Final	

**Emergency Evacuation Procedure:** A map of this floor is posted near the elevator marking the evacuation route and the **Designated Rescue Area**. This is an area where emergency service personnel will go first to look for individuals who need assistance in exiting the building. Students who may need assistance should identify themselves to the teaching faculty.

Last updated 27 December 2011.