

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

**Text:** *Algebra: Form and Function, Preliminary Edition*, McCallum, Connally, Hughes-Hallett, Wiley, 2008

**Prerequisites:** ACT score of at least 21; or Placement in MATH 100 by the Mathematics Department Placement Exam. **TI-83**

**Graphics Calculator is 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	p. 61: 6, 7, 20, 24, 26, 29, 32, 33, 35, 37, 41, 43, 70-73, 75
2	2.1 What is a Function?	4, 10, 13, 14, 16, 17, 20, 24, 25, 29, 36, 38, 40, 41 <b>WP:</b> 2,6,8,12,15,21,22,26
3	2.2 Functions and Expressions	3, 7, 9, 11, 14, 17, 18, 19, 21, 22 <b>WP:</b> 5,25,29,30
4	2.3 Functions and Equations	2, 4, 5, 6, 7, 9, 10, 14, 17, 18, 21, 24, 26, 31 <b>WP:</b> 1,15,22,29,32
5	2.4 Functions and Change	1, 3, 4, 9, 19, 23, 24, 29 <b>WP:</b> 5,6,14,17,21
6	2.5 Functions and Modeling	1, 3, 4, 8, 9, 21,23,24,25,26,28,29, 30, 32, 41 <b>WP:</b> 7,10,11,15,19,20,33,38
7	Chapter 2 Review	
8	<b>Test 1: Chapter 2</b>	
9	3.1 Linear Functions	6, 9, 10, 11, 17, 18, 20, 22, 27, 28, 32, 42, 47 <b>WP:</b> 1,5,12,15,26,36,37,40,48,49
10	3.2 Different Forms of Linear Functions	2, 5, 7, 9, 11, 18, 41, 44, 45, 48, 50, 53 <b>WP:</b> 6,17,20,23,31,36,49,56,61
11	3.3 Linear Equations	24, 28, 35, 43, 44, 46 <b>WP:</b> 1,21,42,49
	3.4 More on Equations of Lines	1, 2, 15, 20, 27, 28, 40, 41, 48, 51, 59, 61, 62, 64, 65, 68, 97 Download worksheet 1 <b>WP:</b> 5,39,52,58,67,70,81,85,96,98
12	3.5 Modeling with Linear Functions	7, 10, 12, 14, 29 Worksheet 1 38, 40, 45, 47; 52 and 53 on calculator <b>WP:</b> 5,13,19,23,26,30,31,36,37,42
13	3.6 Systems of Linear Equations	2, 4, 13, 23, 27, 30, 32, 38, 44, 51 <b>WP:</b> 21,25,28,46
14	4.1 Power Functions	12, 18, 20, 28, 29, 31, 32, 33, 38 <b>WP:</b> 13,16,17,22,35,37
15	4.2 Expressions for Power Functions	12, 15, 16, 17, 20, 21, 23, 24, 27, 28, 32, 35, 37, 38, 39, 42, 44, 62 <b>WP:</b> 18,25,36,63
	4.3 Equations Involving Powers	4, 12, 17, 18, 19, 23, 26, 43, 47, 49 <b>WP:</b> 11,14,24,44
16	4.4 Modeling with Power Functions	5, 7, 8, 12, 21, 23, 30, 32 Page 185: 62 <b>WP:</b> 9,10,18,25
17	Chapter 3 and 4 Review	
18	<b>Test 2: Chapters 3 and 4</b>	
19	5.1 Domain and Range	6, 9, 10, 13, 18, 19, 20, 24, 26, 29, 30, 32, 38, 39 <b>WP:</b> 7,14,16,23,28,42
20	5.2 Composing and Decomposing Functions	3, 11, 13, 17, 22, 28, 29, 31, 33 <b>WP:</b> 9,20,21,26
	5.3 Shifting and Scaling	1, 3, 5, 7, 9, 12, 14, 18, 19, 23, 27, 31 <b>WP:</b> 16,22
21	5.4 Inverse Functions	2, 3, 5, 9, 11, 12, 17, 19, 23, 25, 26, 29, 30, 31, 32 <b>WP:</b> 1,4,7,13
22	6.1 Quadratic Functions	1, 3, 9, 10, 11, 12, 14, 19,21, 23, 25 <b>WP:</b> 8,18,22,29,30,31
23	6.2 Working with Quadratic Functions	1, 6, 7, 16, 34, 45, 49, 52, 54, 57, 59, 60, 62, 67, 73 Download Worksheet 2 <b>WP:</b> 5,8,21,26,29,31,35,48,63,66
24	6.3 Quadratic Equations	5, 6, 7, 14, 25, 54, 55, 61, 69 <b>WP:</b> 17,27,45,46,63,65
	6.4 Solving Quadratic Equations by Factoring	7, 8, 13, 37, 41, 47, 49, 57, 61 Worksheet 2 <b>WP:</b> 10,16,22,24,39,40,43,59
25	Chapter 5 and 6 Review	
26	<b>Test 3: Chapters 5 and 6</b>	

Lesson	Section and Topic	Assignment
27	7.1 Exponential Functions	1, 8, 14, 18, 20, 22, 32, 38, 41 <b>WP:</b> 3,7,24,29,31,35
28	7.2 Exponential Functions	15, 16, 20, 21, 26, 33, 40, 41, 46, 48 <b>WP:</b> 18,19,22,23,25,34,39,42,47
29	7.3 Interpreting the Exponent	7, 8, 20, 23, 25, 27, 38, 43, 45, 47, 49, 54 <b>WP:</b> 6,9,21,22,28,41,44
30	7.4 Exponential Equations	9, 11, 20, 23, 24, 26, 28, 32, 55, 59 <b>WP:</b> 10,18,30b,57
31	7.5 Modeling with Exponential Functions	7, 9, 26, 27, 33, 36 Download worksheet 3 <b>WP:</b> 8,10,13,28,30,37,39
	7.6 Exponential Functions and Base e	1, 3, 5, 7, 9, 11, 16, 19 Worksheet 3
32	8.1 Introduction to Logarithms	10, 19, 25, 29, 30, 33, 45, 49, 50, 52 <b>WP:</b> 17,22,26,27,47
	8.2 Solving Equations using Logarithms	10, 12, 17, 25, (33 ,37 ,39 solve graphically),41, 42, 43, 44,49, 50, 54 Download Worksheet 4 <b>WP:</b> 7,9,20,29,46,52
33	8.3 Applications of Logarithms to Modeling	3, 9, 20, 21, 23 Worksheet 4 <b>WP:</b> 1,7,12,18,25,27
	8.4 Natural Logs and Logs to other Bases	1, 2, 4, 7, 10, 11, 13, 14, 19, 22, 24, 26, 27, 29, 30,34, 35, 36
34	Chapter 8 Review	
35	<b>Test 4: Chapters 7 and 8</b>	Download Worksheet 5
36	Exploring Polynomials	Worksheet 5 do in class
37	9.3 Polynomial Equations	13, 17, 21, 25, <b>WP:</b> 15,19,27
	9.4 Long Run Behavior of Polynomials	3 <b>WP:</b> 1,4,10,13,18
38	10.1 Rational Functions	11, 13, 15 <b>WP:</b> 9,17,19,21,23
39	<b>Review For Final Exam</b>	
40	<b>Review For Final Exam</b>	

**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 21 August 2009.