

**MATH 095 - BASIC ALGEBRA**  
**SYLLABUS/ASSIGNMENT SHEET**  
**Spring 2009**

Text: *Introductory Algebra, 8th Edition* by Lial, Hornsby, McGinnis

Class	Date	Section	Topic	Homework (Odd Problems Only)
1	1/22	1.1 1.2 1.3	<ul style="list-style-type: none"> <li>• Exponents, Order of Operations, Inequality</li> <li>• Variables, Expressions, Equations</li> <li>• Real Numbers, The Number Line</li> </ul>	p 29: 9, 15, 25-31, 37-43 p 35: 11-29, 33-43, 47-53, 59-65 p 45: 13-47
2	1/27	1.4 1.5 1.6	<ul style="list-style-type: none"> <li>• Adding Real Numbers</li> <li>• Subtracting Real Numbers</li> <li>• Multiplying and Dividing Real Numbers</li> </ul>	p 51: 5-33 p 59: 7-27, 35, 37, 45 p 73: 7-27, 33-41, 45-55
3	1/29	1.7 1.8	<ul style="list-style-type: none"> <li>• Properties of Real Numbers</li> <li>• Simplifying Expressions</li> </ul>	p 85: 43-65 p 93: 5-13, 37-49
4	2/3	2.1 2.2 2.3	<ul style="list-style-type: none"> <li>• Addition Property of Equality</li> <li>• Multiplication Property of Equality</li> <li>• Solving Linear Equations</li> </ul>	p 113: 33-51 p 119: 19-29, 47-51 p 127: 1-13, 37-47
5	2/5	2.7 2.4	<ul style="list-style-type: none"> <li>• Solving Linear Inequalities</li> <li>• Applications of Linear Equations</li> </ul>	p 177: 21-27, 41-53 p 141: 7-9, 15-17, 23-25, 29-31, 37-39, 47-49, 55
6	2/10		Review for Test I	Review. No problems assigned! p 77, p 99, p 185, p 191
7	2/12		<b>Test I</b>	
8	2/17	5.1 5.2	<ul style="list-style-type: none"> <li>• Adding and Subtracting Polynomials</li> <li>• Product and Power Rules for Exponents</li> </ul>	p 337: 15, 25, 29, 55-63 p 347: 25-39, 53-55, 65-67
9	2/19	5.3 5.4	<ul style="list-style-type: none"> <li>• Multiplying Polynomials</li> <li>• Special Products</li> </ul>	p 355: 7-35 p 361: 3-7, 19-27
10	2/24	6.1 6.2	<ul style="list-style-type: none"> <li>• Factors; Greatest Common Factor</li> <li>• Factoring Trinomials</li> </ul>	p 411: 29-45 p 417: 11-55
11	2/26	6.3 6.4	<ul style="list-style-type: none"> <li>• Factoring Trinomials by Grouping</li> <li>• Factoring Trinomials Using FOIL</li> </ul>	p 421: 17-31 p 427: 15-33
12	3/3	6.5 6.6	<ul style="list-style-type: none"> <li>• Special Factoring Techniques</li> <li>• Solving Quadratic Equations by Factoring</li> </ul>	p 433: 5-27 p 443: 17-43
13	3/5	6.7	<ul style="list-style-type: none"> <li>• Applications of Quadratic Equations</li> </ul>	p 453: 7-11, 15-19, 23-29, 35
14	3/10		Review for Test II	Review. No problems assigned! p 395, p 435, p 461
15	3/12		<b>Test II</b>	

Class	Date	Section	Topic	Homework (Odd Problems Only)
	3/16 - 3/22		<b>Spring Break!</b>	
16	3/24	5.5 5.6	<ul style="list-style-type: none"> <li>• Integer Exponents, Quotient Rule</li> <li>• Dividing a Polynomial by a Monomial</li> </ul>	p 371: 9-27, 33-51, 53-59 p 377: 7-19
17	3/26	7.1 7.2	<ul style="list-style-type: none"> <li>• Fundamental Property of Rational Expressions</li> <li>• Multiplying and Dividing Rational Expressions</li> </ul>	p 479: 29-39, 43-47 p 487: 3-7, 15-19, 23-33
18	3/31	7.3 7.4	<ul style="list-style-type: none"> <li>• Least Common Denominators</li> <li>• Adding and Subtracting Rational Expressions</li> </ul>	p 493: 19-31 p 501: 9-15, 19-31, 47-53
19	4/2	7.6 2.5 2.6	<ul style="list-style-type: none"> <li>• Solving Equations with Rational Expressions</li> <li>• Formulas and Applications from Geometry</li> <li>• Ratio, Proportion, Percent</li> </ul>	p 521: 9-27, 31-39 p 153: 17-21, 27-29, 33-37, 59-65 p 163: 21-25, 33-41
20	4/7		<ul style="list-style-type: none"> <li>• <b>Last day for Student Withdrawal!</b></li> </ul> Review for Test III	Review. No problems assigned! p 551
21	4/9		<b>Test III</b>	
22	4/14	3.1	<ul style="list-style-type: none"> <li>• Reading Graphs, Linear Equations</li> </ul>	p 203: 19-25, 39-53, 61-67
23	4/16	3.2 3.3	<ul style="list-style-type: none"> <li>• Graphing Linear Equations</li> <li>• Slope of a Line</li> </ul>	p 217: 1-5, 11-13, 17-31 p 231: 1-5, 17-35
24	4/21	3.4 8.1	<ul style="list-style-type: none"> <li>• Equations of Lines</li> <li>• Evaluating Roots</li> </ul>	p 241: 9-11, 15, 21-25 p 567: 17-29, 43-53, 75-93
25	4/23	8.2 8.3	<ul style="list-style-type: none"> <li>• Multiplying, Dividing, Simplifying Radicals</li> <li>• Adding and Subtracting Radicals</li> </ul>	p 577: 13-37, 41-77 p 583: 5-23
26	4/28	8.4 8.5	<ul style="list-style-type: none"> <li>• Rationalizing the Denominator</li> <li>• More Simplifying &amp; Operations with Radicals</li> </ul>	p 591: 1-19 p 599: 5-27, 51-55
27	4/30		Review for Test IV	Review. No problems assigned! p 261, p 619
28	5/5		<b>Test IV</b>	
29	5/7		Review for Final Exam	Review. No problems assigned! p 373, p 627
30	5/12		<b>Final Exam</b>	