Fall 2010 **COURSE-CONTENT/PACING SHEET**

COURSE: ELEMENTARY ALGEBRA (MATH-0600)

TEXTBOOK: Developmental Mathematics: Basic Mathematics and Algebra – by Lial, Hornsby, McGinnis, Salzman, Hestwood

PUBLISHER'S RESOURCES:
- **Included free with the purchase of a New unbound, three-hole Textbook:**
  (1) "MY MATH LAB" with online video lectures, interactive tutorials, animations, and a multimedia textbook.
  (2) **"MY MATH LAB ACCESS KIT"** which includes a **code**, and a user's guide for registering online; you will also need the **course ID (ccri07425)** and the **zip code** (**02886).**
  (3) Help from mathematics instructors via toll-free telephone, fax, e-mail or the Internet from the Publisher's Tutor Center

MATH LAB RESOURCES:
- **While working in the Math Lab all students have access to:**
  (1) A Student's Solution Manual, which provides worked-out solutions to the odd-numbered section exercises and to all Margin, Relating Concepts, Summary, Chapter Review, Chapter Test, and Cumulative Review exercises.
  (2) Individual Instruction from CCRI mathematics instructors.
  (3) Computers for "MyMathLab."

****NOTE**(1): Step-by-step solutions to **all** required highlighted exercises in Chapter Reviews, Chapter Tests, and Cumulative Reviews, as indicated below, **must** be kept in a notebook. YOUR NOTEBOOK SHALL BE AVAILABLE FOR REVIEW BY YOUR INSTRUCTOR BEFORE AND AFTER EACH TEST. **You must bring this with you when you take a test.** Do not take a test until you are able to at least do the Chapter-Review and Chapter-Test Exercises (as indicated below) without relying on sample problems and/or **answers in the back of the book**.

NOTE(2): Before taking your test carefully read the Summary at the end of any assigned chapter to help you review new terms, new formulas, and concepts introduced in that chapter.

NOTE(3): **EACH TEST WILL INCLUDE SOME PROBLEMS BASED ON PREVIOUS CHAPTERS STUDIED.**

NOTE(4): Calculators will **not** be allowed when testing. If a required exercise shows a calculator icon, do it without a calculator then check with a calculator.

NOTE(5): TO BE ABLE TO FINISH YOUR COURSE ON TIME, YOU SHOULD COMPLETE THE REQUIRED MATERIAL FOR A TEST AND PASS EACH TEST BEFORE EACH GUIDELINE (NOT DEADLINE) DATE INDICATED.

NOTE(6): It is your responsibility to check the Math Lab bulletin board and hand in an attendance slip each time you attend the Lab (including testing).

2010	TITLE	**WATCH** SECTION **VIDEOS**	**READ** TEXTBOOK **PAGES**	**DO** HOMEWORK **EXERCISES** AT **END** OF EACH SECTION / CHAPTER
	Whole Numbers, Fractions, Decimals, Ratio, Proportions, Percent, Geometry	1.1-7.6	1-594	As needed.
	Cumulative Review Exercises		595-599	As needed – but omit 60,66,69,70,71,72 Be sure to do 5,9,11,12,14,16,18,19,21,22,24,28,29,30,31, 33,35,54,57,65
	THE REAL NUMBER SYSTEM		[Skip 600,601.]	
	Exponents, Order of Operations, and Inequality	9.1	602-608	1,3,5,7,11,19,21,23,27,33,39,47,63,65,67,69,75
	Variables, Expressions and Equations	9.2	609-616	3,5,11,13,19,25,27,29,35,39,41,43,45,59,65,67,69
	Real Numbers and the Number Line	9.3	617-624	9,11,15,17,19,25,27,29,33,35,39,43,49
	Adding Real Numbers	9.4	625-632	1,5-31 odds,49,51,53,59,65,67,71
	Subtracting Real Numbers	9.5	633-642	7-43 odds,49-57 odds,63,73,83,85
	Multiplying and Dividing Real Numbers	9.6	643-654	1,3,5,7,9,11,17,21,25,27,31,37,41,45,47,51,57,59,61,71
	Properties of Real Numbers	9.7	655-664	9,11,13,15,29,31,35,39,43,59,65,69
TEST 1 should be taken during the week of **Sep. 20**	Simplifying Expressions	9.8	665-670	1,3,5,9,11,13,15,19,21,23,27,29,35,37,41,47,51,55,59
	****CHAPTER 9 Summary/Review Exercises**		**671-680**	**8,10,16,20,22,23,26,27,33,36,40,41,46,51,53,56,60,61, 65,73,77,81,83,85,88,90,91,93,96,102,103,104,106,111, 112,114,115,116,117**
	****CHAPTER 9 Review Test**		**681,682**	**All**
	EQUATIONS, INEQUALITIES, AND APPLICATIONS			
	The Addition Property of Equality	10.1	684-690	1,2,3,4,11,17,23,27,31,33,41,45,49,51
	The Multiplication Property of Equality	10.2	691-696	1,5,11,15,17,25,27,29,31,45,55
	More on Solving Linear Equations	10.3	697-706	3,5,9,11,13,17,19,21,25,31,33,39
	A Introduction to Applications of Linear Equations [Omit EXAMPLE 5 on page 712.]	10.4	707-720	7,9,11,13,15,17,27,35,47,49,51,53
TEST 2 should be taken before or during the week of **Oct. 4**	Formulas and Applications from Geometry [Omit EXAMPLE 4 on page 724.]	10.5	721-730	1,3,7,9,13,15,17,19,21,23,25,27,49,51,53,55,57,59,63
	Solving Linear Inequalities	10.6	731-740	1,3,9,11,13,21,25,27,31,33,35,37,41,43,49,55,57,59
	**** CHAPTER 10 Summary/Review Exercises**		**741-748**	**3,5,7,9,11,13,17,21,27,31,33,35,37,45,47,48**
	****CHAPTER 10 Review Test**		**749,750**	**1-9,12,16,17,18,19,20,21**

Revised 8/23/10

2010	TITLE	SECTION **VIDEOS**	TEXTBOOK **PAGES**	HOMEWORK **EXER.** AT **END** OF EACH SECT. / CHAP.
	GRAPHS OF LINEAR EQUATIONS AND INEQUALITIES IN TWO VARIABLES			
	Reading Graphs; Linear Equations in Two Variables	11.1	752-766	1,5,9,13,15,17,19,23,25,29,31,33,35,37,39,41,45,47,49, 51,55,57,65,71,73,75,81
	Graphing Linear Equations in Two Variables	11.2	767-780	1,3,5,7,9,11,15,19,21,25,29,31,39
	Slope of a Line	11.3	781-792	1,3,5,7,11,13,15,17,21,23,29,31,35,37,41,43,45,53
	[Omit EXAMPLE 6 on page 787.]			
	Equations of Lines	11.4	793-796	
TEST 3	[Omit Standard Form on the bottom of page		[Skip 797,798.]	
should be	796.]		799-804	5,7,9,11,13,15,17,19,21,23,25,27,29,31,33,35,37,41,43, 44(ans. y = -5)
taken				
before or			[Skip 805-812.]	
during the	****CHAPTER 11 Summary/Review Exercises**		**813-822**	**1,3,5,9,11,13,19,20,21,24,26,27,29,30,31,33,35,37,43, 45,48,49,50,51,55,56,57,58,59,60,61,63,65,66**
week of	****CHAPTER 11 Review Test**		**823-826**	**1-12,14,15,16,17,20,21,22**
Oct. 18				
	EXPONENTS AND POLYNOMIALS			
	Adding and Subtracting Polynomials	12.1	828-836	1,3,9,11,19,23,29,31,33,35,39,43,47,49,53,57,65,69,71
	The Product Rule and Power Rules for Exponents	12.2	837-844	1,3,5,7,13,17,21,23,27,33,35,41,45,51,53,78
TEST 4	Multiplying Polynomials	12.3	845-852	5,7,11,13,21,23,25,27,29,33,37,39,45
should be	Special Products	12.4	853-858	1,3,7,15,17,19,21,23,25,27,31,32,33,34,35
taken			[Skip 859-868.]	
before or	Dividing a Polynomials by a Monomial	12.6	869-872	1,3,5,7,9,13,19,29
during the			[Skip 873-884.]	
week of	****CHAPTER 12 Summary/Review Ex.**		**885-892**	**3,9,11,13,15,19,24,26,27,33,39,41,63,65,67,103**
Nov. 1	****CHAPTER 12 Review Test**		**893,894**	**1,2,3,4,5,6,7,8,9,10,11,18,19,24**
	FACTORING AND APPLICATIONS			
	Factors: The Greatest Common Factor	13.1	896-899	
	[Omit EXAMPLES 4 and 5 on page 899.]		[Skip 900-902.]	
			903,904	1,3,5,7,9,11,13,17,19,23,27,29,33,39,41
	Factoring Trinomials	13.2	905-910	1,3,5,7,9,11,15,21,27,35,37,39,57
			[Skip 911-914.]	
	Factoring Trinomials Using FOIL	13.4	915-920	1,7,11,13,15,17,21,27,29,31,35,39
	Special Factoring Techniques	13.5	921-924	
	[Omit OBJECTIVE 3 on pages 924, 925.]		[Skip 925,926.]	
			927,928	1,3,5,7,9,11,15,19,21,29,33,35,37
			[Skip 929,930.]	
	Solving Quadratic Equations by Factoring	13.6	931-938	1,3,5,7,13,15,17,19,21,25,29,35,51
	[Omit EXAMPLE 6 on page 935.]		[Skip 939-950.]	
	****CHAPTER 13 Summary/Review Exercises**		**951-960**	**1,3,7,8,10,13,14,15,19,22,27,28,29,31,32,33,35,37,38, 45,47,50,53,71**
	****CHAPTER 13 Review Test**		**961,962**	**1,2,3,5,7,8,10,12,13,15,16,19,21,22,23,24,25,26**
			[Skip 963-1101.]	**[Be sure to study Sec. 16.1 before taking Test 5.]**
TEST 5	Evaluating Roots	16.1	1102-1107	**[For additional help on the Pythagorean Theorem**
should be	[Omit EXAMPLES 3 and 5 on pgs. 1103		[Skip 1108.]	**consider studying Sec. 7.7 on pages 501-508.]**
taken	and 1105 and OBJECTIVE 5 on pg. 1107.]			
before or	[Calculators and square-root tables will not be		1109-1111	17-29 odds,55,57,59,61(ans. $\sqrt{137}$),63,65,69(ans. $\sqrt{89}$)
during the	provided on the test. Square roots of numbers			
week of	(other than perfect squares) must be expressed in			
Nov. 15	radical form.]			
	RATIONAL EXPRESSIONS AND APP.			
	The Fundamental Property of Rational Expressions	14.1	964-972	1,3,5,7,9,11,13,17,21,23,25,27,33,39,43,49,55
	Multiplying and Dividing Rational Expressions	14.2	973-980	1,3,5,7,9,13,15,19,21,23,29,31
	Least Common Denominators	14.3	981-986	1,3,5,7,9,11,13,15,17,19,23,27,31,35,39
	Adding and Subtracting Rational Expressions	14.4	987,988,990-994	1,3,5,7,9,11,13,15,19,23,29
TEST 6			[Skip 989,995-1004.]	
should be	Solving Equations with Rational Expressions	14.6	1005-1016	1,3,5,7,11,15,17,21,23,31,33, 51,53,55
taken			[Skip 1017-1034.]	
before or				
during the	****CHAPTER 14 Summary/Review Exercises**		**1035-1044**	**1,2,3,6,7,9,12,15,16,18,20,24,25,29,30,37,39,49,51, 52,53,54,55**
week of	****CHAPTER 14 Review Test**		**1045,1046**	**1,2,3,4,5,7,8,9,10,14,19,20**
Nov. 29				