

COURSE SYLLABUS

Course Title:	Elementary Algebra Foundations		Date submitted:	Spring 2014 (AAC: 14-92)
Department:	Mathematics & Science			
Curriculum:	Mathematics			
Course Descriptors: Make certain that the course descriptors are consistent with college and Board of Trustees policies, and the current course numbering system.	Course Code: (eg. ACC 101)	MAT*095	Prerequisites:	
	Course Type:	L	C or better in PreAlgebra-Number Sense/Geometry (MAT*075) or appropriate placement test score	
	A: Clinical B: Lab D: Distance Learning I: Individual/Independent L: Lecture N: Internship M: Seminar P: Practicum U: Studio X: Combined Lecture/Lab Y: Combined Lecture/ Clinical/Lab Z: Combined Lecture/Studio			
	Elective Type:	N/A		
	AH: Art History E: English FA: Fine Arts FL: Foreign Language G: General HI: History HU: Humanities LAS: Liberal Arts & Sciences M: Math S: Science SS: Social Science			
	Credit Hours:	3	Corequisites:	
	Developmental: (yes/no)	yes	None	
	Lecture:	3		
	Clinical:	0		
	Lab:	0		
Studio:	0			
Contact Hours:	Other: 0			
	TOTAL: 3	Other Requirements:		
	Class Maximum: 27	None		
	Semesters Offered: F/Sp/Su			
Catalog Course Description:	A non-credit course for students who have never had algebra or who need to review algebraic concepts. The following topics of algebra are covered: signed numbers, solving linear equations and inequalities in one variable, solving formulas and word problems involving linear equations, graphing linear equations and inequalities in 2 variables, formulating equations of lines in two variables, rules of integral exponents and the 4 operations (addition, subtraction, multiplication, division) on polynomials, factoring, and solving systems of two equations in two variables. This course does not satisfy a mathematics elective in any program.			
Topical Outline: List course content in outline format.	1. Solving Linear Equations and Inequalities in one variable, solving related Formulas and Word Problems 2. Graphing Linear Equations and Inequalities in two variables; formulating Equations of Lines in two variables; related Word Problems 3. Rules of Integral Exponents; four Operations on Polynomials 4. Factoring of Polynomials 5. Solving Systems of two Linear Equations in two unknowns and related Word Problems			
Outcomes: Describe measurable skills or knowledge that	Upon successful completion of this course, the student will be able to do the following: COURSE:			

<p>students should be able to demonstrate as evidence that they have mastered the course content.</p>	<ol style="list-style-type: none"> 1. solve linear equations, formulas and inequalities in 1 variable and related word problems 2. graph and formulate equations of lines in two variables; solve related word problems 3. graph inequalities in two variables; solve related word problems 4. apply the rules of integral exponents and the 4 operations on polynomials 5. apply factoring to polynomials 6. solve systems of two linear equations in two unknowns and related word problems
	<p>PROGRAM: does not apply</p>
	<p>GENERAL EDUCATION: <i>(Numbering reflects General Education Outcomes as they appear in the college catalog)</i></p> <p>7. Quantitative Reasoning -Students will learn to recognize, understand, and use the quantitative elements they encounter in various aspects of their lives. Students will develop a habit of mind that uses quantitative skills to solve problems and make informed decisions.</p> <p>Demonstrates: Interprets numerical information and applies sufficient laws of logic and mathematics to solve problems using numbers, symbols, graphs and/or descriptions.</p> <p>Does Not Demonstrate: Misinterprets numerical information or insufficiently applies laws of logic and mathematics to solve problems using numbers, symbols, graphs and/or descriptions.</p>
<p>Evaluation: List how the above outcomes will be assessed.</p>	<p>Assessment will be based on the following criteria:</p> <ul style="list-style-type: none"> Quizzes Tests Classroom assessments Departmental midterm exam (optional depending on instructor) Final exam (required for all sections)
<p>Instructional Resources: List library (e.g. books, journals, on-line resources), technological (e.g. Smartboard, software), and other resources (e.g. equipment, supplies, facilities) required and desired to teach this course.</p>	<p>Required: large amounts of board space and individual desks; access to MyMathLab</p> <p>Desired: None</p>
<p>Textbook(s)</p>	<p><u>Introductory and Intermediate Algebra</u>, 3rd edition by Bittinger/Beecher</p>