Algebra Prep 1

ASC 91 Algebra Prep 1 (2 semester credits)

<u>Course Description</u>: This course is a beginning level algebra course. Topics covered include fundamental operations of fractions, decimals, real numbers, expressions, equations and inequalities. This class does not satisfy college graduation requirements for math.

<u>Prerequisite(s):</u> none

Harmony Richman **Email**: harmony.richman@vcsu.edu **Phone**: 701- 845-7685 **Office Location**: Rhodes 104E **Course Website**: http://algebraprep123.wikispaces.com/ **Textbook**: *Beginning and Intermediate Algebra by Tobey, Slater, Blair, and Crawford 4th edition.* With MyMathLab access code.	<u>**Class Schedule:**</u>	
	Monday	9:00 AM – 9:50 AM McCarthy 254
	Tuesday	9:00 AM – 9:50 AM McCarthy 254
	Wednesday	9:00 AM – 9:50 AM McCarthy 254
	Thursday	
	Friday	9:00 AM – 9:50 AM McCarthy 254
	<u>**Office Hours**</u>: MTWF 11 – 11:50 and 1 – 1:50 and by appointment	

<u>Course Requirements</u>: Learning algebra is an investment of time. Algebra is learned best by practice, reflect, and practice some more. Understanding the steps in the topic explanations and video presentations is a good start. However, to truly know the material, you should be able to look at a problem, know how to proceed, and carry out the steps without assistance. There are multiple attempts in completing the homework which helps to provide opportunities for you to get to that point. It is expected to invest a minimum of 2 hours per semester credit hours outside of the classroom. Students are expected to be active learners in the classroom activities which helps enhance the students learning experience. Learning will take place utilizing the following; MyMathLab, in-class activities, supplemental instruction provided by the instructor; project; homework, and tests/exams.

<u>Course Objectives/Student Outcomes:</u> The students will be able to:

- Perform basic algebraic operations using positive and negative numbers, fractions and exponents
- Demonstrate an understanding of terms and rules used in algebra.
- Utilize problem solving strategies to solve problems.
- Simplify and solve equations and inequalities.
- Analyze and solve various types of math problems.
- Gain the skills need to participate in ASC 92 Algebra Prep II

Relationship to Campus Theme: This course introduces algebra skills that are used to solve problems in science, technology, business and social sciences. These problems will require critical thinking and interaction with other students.

Grading Criteria: Your grade will be weighted on the following:

Homework	25%
In-Class Activities	25%
Tests/Exams	35%
Project	15%

Final letter grades are assigned based on the following:

A	90% - 100%	B	80% - 89%
C	70% - 79%	D	60% - 69%
F	≤ 59%		

Late Homework/Assignments: It is the **responsibility of the student** to obtain an assignment if they are absent on the day it is given. If a student is absent on the day the assignment is due, it is his/her responsibility to get the assignment to the instructor **on time**. Missed assignments will be graded as a zero. In class activities are meant to be completed in class. Late tests/exams will not be given unless prior approval from the instructor is given.

Schedule (subject to change):

Date	Topic
January 14th	✓ Welcome! ✓ MyMathLab ✓ Overview of Course
January 15th	✓ 0.1 - Simplifying Fractions
January 17th	✓ 0.2 - Adding and Subtracting Fractions
January 20th - Martin Luther King, Jr. Day	No Class
January 21st	✓ 0.3 – Multiplying and Dividing Fractions
January 22nd	✓ 0.4 – Using Decimals
January 24th	✓ 0.5 – Percents, Rounding, and Estimating
January 27th	✓ Chapter 0 Review
January 28th	✓ Chapter 0 Test
January 29th	✓ 1.1 – Adding Real Numbers
January 31st	✓ 1.2 - Subtracting Real Numbers
February 3rd	✓ 1.3 – Multiplying and Dividing Real Numbers
February 4th	✓ 1.4 - Exponents
February 5th	✓ 1.5 – The Order of Operations

February 7th	✓ 1.6 – Using the Distributive Property to Simplify Algebraic Expressions
February 10th	✓ 1.7 – Combining Like Terms
February 11th	✓ 1.8 – Using Substitution to Evaluate Algebraic Expressions and Formulas
February 12th	✓ 1.9 – Grouping Symbols
February 14th	✓ Chapter 1 Review
February 17th - President's Day	No Class
February 18th	✓ Chapter 1 Test ✓ 2.1 – The Addition Principle of Equality
February 19th	✓ 2.2 – The Multiplication Principle of Equality
February 21st	✓ 2.3 – Using the Addition and Multiplication Principle Together
February 24th	✓ 2.4 – Solving Equations with Fractions
February 25th	✓ 2.5 – Translating English Phrases into Algebraic Expressions
February 26th	✓ 2.6 – Using Equations to Solve Word Problems
February 28th	✓ 2.8 – Solving Inequalities in One Variable
March 3rd	✓ Chapter 2 Review
March 4th	✓ Chapter 2 Test
March 5th	✓ Final Review
March 7th	✓ Final Exam