Algebra Prep 3 – 1ˢᵗ 8 Weeks

ASC 93 Algebra Prep 3 (2 semester credits)

Course Description: This course is a continuation of Algebra Prep 2 as a beginning level algebra course. Topics covered include operations of linear equations, factoring, simplifying radical and rational expressions. This class does not satisfy college graduation requirements for math.

Prerequisite(s): 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.	**Class Schedule:**	
	Monday	
	Tuesday	
	Wednesday	
	Thursday	
	Friday	
	Office Hours: MTWF 7:30AM – 8:00AM; 3:00 PM – 4:00PM and by appointment	

Course Requirements: 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.

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

- Demonstrate an understanding of terms and rules used in algebra.
- Utilize the rules of exponents to simplify exponential expressions.
- Utilize problem solving strategies to solve problems.
- Simplify and solve equations and expressions.
- Perform the basic algebraic operations with polynomials.
- Factor using greatest common factor, factor by grouping, factor trinomials of the form $ax^2 + bx + c$ and factor special case polynomials.

- Perform basic algebraic operations to simplify radical and rational expressions.
- Analyze and solve various types of math problems.
- Gain the skills need to participate in MATH 103 College Algebra.

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	$\leq$ 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
August 27th	✓ Welcome! ✓ MyMathLab ✓ Overview of Course
August 28th	✓ 2.1 – The Addition Principles of Equality ✓ 2.2 – The Multiplication Principle of Equality ✓ 2.3 – Using the Addition and Multiplication Principles Together
August 30th	✓ 2.4 – Solving Equations with Fractions ✓ 2.5 – Translating English Phrases into Algebraic Expressions ✓ 2.6 – Using Equations to Solve Word Problems ✓ 2.8 – Solving Inequalities in One Variable
September 2nd – Labor Day	No Class

September 3rd	✓ 6.1 – Removing a Common Factor
September 4th	✓ 6.2 – Factoring by Grouping
September 6th	✓ 6.3 – Factoring Trinomials of the Form $x^2 + bx + c$
September 9th	✓ 6.4 – Factoring Trinomials of the Form $ax^2 + bx + c$
September 10th	✓ 6.5 – Special Cases of Factoring
September 11th	✓ 6.6 – A Brief Review of Factoring
September 13th	✓ 6.7 Solving Quadratic Formulas by Factoring
September 16th	✓ Chapter 6 Review
September 17th	✓ Chapter 6 Test
September 18th	✓ 7.1 - Simplifying Rational Expressions
September 20th	✓ 7.1 – Simplifying Rational Expressions, continued
September 23rd	✓ 7.2 – Multiplying and Dividing Rational Expressions
September 24th	✓ 7.3 – Adding and Subtracting Rational Expressions
September 25th	✓ 7.4 – Simplifying Complex Rational Expressions
September 27th	✓ 7.5 – Solving Equations Involving Rational Expressions
September 30th	✓ 7.5 – Solving Equations Involving Rational Expressions, continued
October 1st	✓ 7.6 – Ratio, Proportion, and Other Applied Problems
October 2nd	✓ Chapter 7 Review
October 4th	✓ Chapter 7 Test
October 7th	✓ 8.1 – Rational Exponents
October 8th	✓ 8.2 – Radical Expressions and Functions
October 9th	✓ 8.3 – Simplifying, Adding, and Subtracting Radicals
October 11th	✓ 8.4 – Multiplying and Dividing Radicals
October 14th	✓ Chapter 8 Review
October 15th	✓ Chapter 8 Test
October 16th	✓ Final Review
October 18th	✓ Final Exam