Algebra Prep 3 – 2nd 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

<table>
<tr><td colspan="2">Harmony Richman
Email: harmony.richman@vcsu.edu</td><td colspan="2" align="center">**Class Schedule:**</td></tr>
<tr><td colspan="2" rowspan="2">**Phone**: 701- 845-7685
Office Location: Rhodes 104E</td><td>Monday</td><td></td></tr>
<tr><td>Tuesday</td><td></td></tr>
<tr><td colspan="2"></td><td>Wednesday</td><td></td></tr>
<tr><td colspan="2">**Course Website**:</td><td>Thursday</td><td></td></tr>
<tr><td colspan="2">http://algebraprep123.wikispaces.com/</td><td>Friday</td><td></td></tr>
<tr><td colspan="2" rowspan="4">**Textbook**:
Beginning and Intermediate Algebra by Tobey, Slater, Blair, and Crawford 4th edition. With MyMathLab access code.</td><td colspan="2">**Office Hours**: MTWF 11 – 11:50; 1 – 1:50 and by appointment</td></tr>
</table>

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	≤ 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
March 10th	✓ Welcome! ✓ MyMathLab ✓ Overview of Course
March 11th	✓ 2.1 – The Addition Principles of Equality ✓ 2.2 – The Multiplication Principle of Equality ✓ 2.3 – Using the Addition and Multiplication Principles Together
March 12th	✓ 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
March 14th	✓ 6.1 – Removing a Common Factor

March 17th – March 21st Spring Break	No Classes
March 24th	✓ 6.2 – Factoring by Grouping
March 25th	✓ 6.3 – Factoring Trinomials of the Form $x^2 + bx + c$
March 26th	✓ 6.4 – Factoring Trinomials of the Form $ax^2 + bx + c$
March 28th	✓ 6.5 – Special Cases of Factoring
March 31st	✓ 6.6 – A Brief Review of Factoring
April 1st	✓ 6.7 Solving Quadratic Formulas by Factoring
April 2nd	✓ Chapter 6 Review
April 4th	✓ Chapter 6 Test
April 7th	✓ 7.1 - Simplifying Rational Expressions
April 8th	✓ 7.1 – Simplifying Rational Expressions, continued
April 9th	✓ 7.2 – Multiplying and Dividing Rational Expressions
April 11th	✓ 7.3 – Adding and Subtracting Rational Expressions
April 14th	✓ 7.4 – Simplifying Complex Rational Expressions
April 15th	✓ 7.5 – Solving Equations Involving Rational Expressions
April 16th	✓ 7.5 – Solving Equations Involving Rational Expressions, continued
April 18th – Good Friday	No Class
April 21st – Easter Monday	No Class
April 22nd	✓ 7.6 – Ratio, Proportion, and Other Applied Problems
April 23rd	✓ Chapter 7 Review
April 25th	✓ Chapter 7 Test
April 28th	✓ 8.1 – Rational Exponents
April 29th	✓ 8.2 – Radical Expressions and Functions
April 30th	✓ 8.3 – Simplifying, Adding, and Subtracting Radicals
May 2nd	✓ 8.4 – Multiplying and Dividing Radicals
May 5th	✓ 8.5 – Radical Equations
May 6th	✓ Chapter 8 Review
May 7th	✓ Chapter 8 Review
May 9th	✓ Chapter 8 Test