Algebra Prep 2 – 2nd 8 Weeks

ASC 92 Algebra Prep 2 (2 semester credits)

Course Description: This course is a continuation of Algebra Prep I as a beginning level algebra course. Topics covered include fundamental operations, linear graphing, functions, exponents, polynomials, factoring. 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
Phone: 701- 845-7685
Office Location: Rhodes 104E</td><td colspan="2" align="center">Class Schedule:</td></tr>
<tr><td colspan="2" rowspan="4">Course Website:
http://mrsrichmanprep.weebly.com/</td><td>Monday</td><td></td></tr>
<tr><td>Tuesday</td><td></td></tr>
<tr><td>Wednesday</td><td></td></tr>
<tr><td>Thursday</td><td></td></tr>
<tr><td colspan="2"></td><td>Friday</td><td></td></tr>
<tr><td colspan="2" rowspan="2">Textbook:
<i>Beginning and Intermediate Algebra by Tobey, Slater, Blair, and Crawford 4th edition.</i> With MyMathLab access code.</td><td colspan="2">Office Hours:</td></tr>
<tr><td colspan="2"></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.
- Graph functions using slope-intercept form.
- 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 special cases.
- Analyze and solve various types of math problems.

- Gain the skills need to participate in ASC 93 Algebra Prep III.

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
October 20th	✓ Welcome! ✓ MyMathLab ✓ Overview of Course
October 21st	✓ 3.1 – The Rectangular Coordinate System
October 22nd	✓ 3.2 Graphing Linear Equations
October 24th	✓ 3.3 – The Slope of a Line
October 27th	✓ Mid-Chapter 3 Review
October 28th	✓ 3.4 Writing the Equation of a Line
October 29th	✓ 3.5 Graphing Linear Inequalities
October 31st	✓ 3.6 Functions
November 3rd	✓ Chapter 3 Review
November 4th	✓ Chapter 3 Test ✓ Chapter 3 Homework due by 11:59 PM
November 5th	✓ 5.1 – The Rules of Exponents
November 7th	✓ 5.2 – Negative Exponents and Scientific Notation.
November 10th	✓ 5.3 – Fundamental Polynomial Operations
November 11th	No Class

November 12th	✓ Mid-Chapter 5 Review
November 14th	✓ 5.4 Multiplying Polynomials
November 17th	✓ 5.5 Multiplication: Special Cases
November 18th	✓ 5.6 Dividing Polynomials
November 19th	✓ Chapter 5 Review
November 21st	✓ Chapter 5 Test ✓ Chapter 5 Homework due by 11:59 PM
November 24th	✓ 6.1 – Removing a Common Factor
November 25th	✓ 6.2 – Factoring by Grouping
November 26th	✓ 6.3 – Factoring Trinomials of the Form $x^2 + bx + c$
November 28th	No Class
December 1st	✓ 6.4 Factoring Trinomials of the Form $ax^2 + bx + c$
December 2nd	✓ 6.5 Special Cases of Factoring
December 3rd	✓ 6.6 A Brief Review of Factoring
December 5th	✓ 6.7 Solving Quadratic Equations by Factoring
December 8th	✓ Chapter 6 Review
December 9th	✓ Chapter 6 Test ✓ Chapter 6 Homework due by 11:59 PM
December 10th	✓ Final Exam Review ✓ Math Art Project DUE
December 12th	✓ Final Exam