

## Algebra Prep 2 – 1<sup>st</sup> 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 and systems of equations. This class does not satisfy college graduation requirements for math.

**Prerequisite(s):** none

<b>Harmony Richman</b> <b>Email:</b> harmony.richman@vcsu.edu <b>Phone:</b> 701- 845-7685 <b>Office Location:</b> Rhodes 104E  <b>Course Website:</b> <a href="http://www.mrsrichmanprep.weebly.com">http://www.mrsrichmanprep.weebly.com</a>  <b>Textbook:</b> <i>Beginning and Intermediate Algebra by Tobey, Slater, Blair, and Crawford 4<sup>th</sup> edition.</i>	<b>Class Schedule:</b>	
	Monday	
	Tuesday	
	Wednesday	
	Thursday	
	Friday	
	<b>Office Hours:</b> MTWF 1 – 1:50; WF 11 – 11:50 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.
- Perform the basic algebraic operations with polynomials.
- Factor using greatest common factor, factor by grouping and factor trinomials of the form  $x^2 + bx + c$
- Plot points, graph linear equations and find slope of a line.
- 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	≤ 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 12 <sup>th</sup>	✓ Welcome! ✓ Overview of Course
January 13 <sup>th</sup>	✓ 3.1 – The Rectangular Coordinate System
January 15 <sup>th</sup>	✓ 3.2 Graphing Linear Equations
January 18 <sup>th</sup> – Martin Luther King, Jr. Day	✓ 3.3 – The Slope of a Line
January 19 <sup>th</sup>	✓ 3.4 – Writing the Equation of a Line
January 20 <sup>th</sup>	✓ 3.5 - Graphing Linear Inequalities
January 22 <sup>nd</sup>	✓ 3.6 - Functions
January 25 <sup>th</sup>	No Class
January 26 <sup>th</sup>	✓ Chapter 3 Review
January 27 <sup>th</sup>	✓ Chapter 3 Review
January 29 <sup>th</sup>	✓ Chapter 3 Test
February 1 <sup>st</sup>	✓ 5.1 – The Rules of Exponents
February 2 <sup>nd</sup>	✓ 5.2 – Negative Exponents and Scientific Notation.
February 3 <sup>rd</sup>	✓ 5.3 – Fundamental Polynomial Operations
February 5 <sup>th</sup>	✓ 5.4 – Multiplying Polynomials
February 8 <sup>th</sup>	✓ 5.5 – Multiplication: Special Cases
February 9 <sup>th</sup>	✓ 5.6 – Dividing Polynomials

February 10 <sup>th</sup>	✓ Chapter 5 Review
February 12 <sup>th</sup>	✓ Chapter 5 Review
February 15 <sup>th</sup> – President's Day	No School
February 16 <sup>th</sup>	✓ Chapter 5 Test
February 17 <sup>th</sup>	✓ 6.1 – Removing a Common Factor
February 19 <sup>th</sup>	✓ 6.2 – Factoring by Grouping
February 22 <sup>nd</sup>	✓ 6.3 – Factoring Trinomials of the Form $x^2 + bx + c$
February 23 <sup>rd</sup>	✓ 6.4 - Factoring Trinomials of the Form $ax^2 + bx + c$
February 24 <sup>th</sup>	✓ 6.5 – Special Cases Factoring
February 26 <sup>th</sup>	✓ 6.6 – A Brief Review of Factoring
February 29 <sup>th</sup>	✓ 6.7 – Solving Quadratic Equations by Factoring
March 1 <sup>st</sup>	✓ Chapter 6 Review
March 2 <sup>nd</sup>	✓ Chapter 6 Test
March 4 <sup>th</sup>	✓ Final Exam