

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 and systems of equations. This class does not satisfy college graduation requirements for math.

Prerequisite(s): none

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	Monday	
	Tuesday	
	Wednesday	
	Thursday	
	Friday	
	<u>Office Hours:</u> MTWF 11 – 11:50 and 1 – 1:50 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
March 10 th	✓ Welcome! ✓ MyMathLab ✓ Overview of Course
March 11 th	✓ 3.1 – The Rectangular Coordinate System
March 12 th	✓ 3.2 Graphing Linear Equations
March 14 th	✓ 3.3 – The Slope of a Line
March 17 th – March 21 st Spring Break	No Classes
March 24 th	✓ 3.4 – Writing the Equation of a Line
March 25 th	✓ 3.5 - Graphing Linear Inequalities
March 26 th	✓ 3.6 - Functions
March 28 th	✓ Chapter 3 Review
March 31 st	✓ Chapter 3 Test
April 1 st	✓ 5.1 – The Rules of Exponents
April 2 nd	✓ 5.2 – Negative Exponents and Scientific Notation.

April 4 th	✓ 5.3 – Fundamental Polynomial Operations
April 7 th	✓ 5.4 – Multiplying Polynomials
April 8 th	✓ 5.5 – Multiplication: Special Cases
April 9 th	✓ 5.6 – Dividing Polynomials
April 11 th	✓ Chapter 5 Review
April 14 th	✓ Chapter 5 Test
April 15 th	✓ 6.1 – Removing a Common Factor
April 16 th	6.2 – Factoring by Grouping
April 18 th – Good Friday	No Class
April 21 st – Easter Monday	No Class
April 22 nd	✓ 6.1 – 6.2 Review
April 23 rd	✓ 6.3 – Factoring Trinomials of the Form $x^2 + bx + c$
April 25 th	✓ Chapter 6 Review
April 28 th	✓ Chapter 6 Review
April 29 th	✓ Chapter 6 Test
April 30 th	✓ 4.1 – Systems of Linear Equations in Two Variables
May 2 nd	✓ 4.2 – Systems of Linear Equations in Three Variables
May 5 th	✓ Chapter 4 Test
May 6 th	✓ Final Review
May 7 th	✓ Final Review
May 9 th	✓ Final Exam