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, rational expressions and quadratic equations. This class does not satisfy college graduation requirements for math.

Prerequisite(s): none

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Course Website:
www.mrsrichmanprep.weebly.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:

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 trinomials using a variety of techniques.
- Utilize the quadratic formula to identify solutions to quadratic equations.

- 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
October 20th	✓ Welcome! ✓ MyMathLab ✓ Overview of Course
October 21st	✓ 6.1 Remove a Common Factor ✓ 6.2 Factoring by Grouping ✓ 6.3 Factoring Trinomials of the Form $x^2 + bx + c$
October 22nd	✓ 6.4 Factoring Trinomials of the Form $ax^2 + bx + c$ ✓ 6.5 Special Case Factoring ✓ 6.7 Solving Quadratic Equations by Factoring
October 24th	No Class
October 27th	✓ 7.1 Simplifying Rational Expressions
October 28th	✓ 7.2 Multiplying and Dividing Rational Expressions
October 29th	✓ 7.3 Adding and Subtracting Rational Expressions

October 31st	✓ Mid-Chapter Review (7.1 – 7.3)
November 3rd	✓ 7.4 Simplifying Complex Rational Expressions
November 4th	✓ 7.5 Solving Equations Involving Rational Expressions
November 5th	✓ 7.6 Ratio, Proportion and Other Applied Problems
November 7th	✓ Second- Half Chapter Review (7.4 – 7.6)
November 10th	✓ Chapter 7 Review
November 11th	✓ Chapter 7 Test ✓ Chapter 6 and 7 Homework Due by 11:59 PM
November 12th	✓ 8.1 Rational Exponents
November 14th	✓ 8.2 Radical Expressions and Functions
November 17th	✓ 8.3 Simplifying, Adding, and Subtracting Radicals
November 18th	✓ Mid-Chapter Review (8.1 – 8.3)
November 19th	✓ 8.4 Multiplying and Dividing Radicals
November 21st	✓ 8.5 Radical Equations
November 24th	✓ 8.6 Complex Numbers
November 25th	✓ Chapter 8 Review
November 26th	✓ Chapter 8 Test ✓ Chapter 8 Homework Due by 11:59 PM
December 1st	✓ 9.1 Quadratic Equations
December 2nd	✓ 9.2 The Quadratic Formula and Solutions to the Quadratic Equation
December 3rd	✓ 9.3 Equations that Can Be Transformed Into Quadratic Form
December 5th	✓ Chapter 9 Review
December 8th	✓ Chapter 9 Review ✓ Chapter 9 Homework Due by 11:59 PM
December 9th	✓ Chapter 9 Test
December 10th	✓ Final Exam Review ✓ History of Math Paper DUE
December 12th	✓ Final Exam