# Algebra Prep 1

ASC 91 Algebra Prep 1 (2 semester credits)

**Course Description**:  This course is a beginning level algebra course. Topics covered include fundamental operations of fractions, decimals, real numbers, expressions, equations and inequalities.  This class does not satisfy college graduation requirements for math.

**Prerequisite(s):** none

| Harmony Richman | **Class Schedule:** | |
| --- | --- | --- |
| **Email**: harmony.richman@vcsu.edu | | |
| **Phone**: 701- 845-7685 | Monday | |
| **Office Location**: Rhodes 104E | Tuesday | |
| | Wednesday | |
| **Course Website**: | Thursday | |
| www.mrsrichmanprep.weebly.com | Friday | |
| | **Office Hours**: | |
| **Textbook**: | | |
| *Beginning and Intermediate Algebra by Tobey, Slater, Blair, and Crawford 4th edition.*  With MyMathLab access code. | | |

**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:

- Perform basic algebraic operations using positive and negative numbers, fractions and exponents
- Demonstrate an understanding of terms and rules used in algebra.
- Utilize problem solving strategies to solve problems.
- Simplify and solve equations and inequalities.
- Analyze and solve various types of math problems.
- Gain the skills need to participate in ASC 92 Algebra Prep II

<u>Relationship to Campus Theme:</u>  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.

<u>Grading Criteria:</u>  Your grade will be weighted on the following:

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| Homework | 25% |
| In-Class Activities | 25% |
| Tests/Exams | 35% |
| Project | 15% |

Final letter grades are assigned based on the following:

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|---|---|---|---|---|
| A | 90% - 100% | | B | 80% - 89% |
| C | 70% - 79% | | D | 60% - 69% |
| F | $\leq$ 59% | | | |

<u>Late Homework/Assignments</u>:  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.

<div align="center"><u>Schedule (subject to change):</u></div>

| Date | Topic |
|---|---|
| January 13<sup>th</sup> | ✓ Welcome!<br>✓ MyMathLab<br>✓ Overview of Course |
| January 14<sup>th</sup> | ✓ 0.1 - Simplifying Fractions |
| January 16<sup>th</sup> | ✓ 0.2 - Adding and Subtracting Fractions |
| January 19<sup>th</sup> – Martin Luther King, Jr. Day | No Class |
| January 20<sup>th</sup> | ✓ 0.3 – Multiplying and Dividing Fractions |
| January 21<sup>st</sup> | ✓ 0.4 – Using Decimals |
| January 23<sup>rd</sup> | ✓ 0.5 – Percents, Rounding, and Estimating |
| January 26<sup>th</sup> | ✓ Chapter 0 Review |
| January 27<sup>th</sup> | ✓ Chapter 0 Test<br>✓ Chapter 0 Homework Due by 11:59PM |
| January 28<sup>th</sup> | ✓ 1.1 – Adding Real Numbers |
| January 30<sup>th</sup> | ✓ 1.2 -  Subtracting Real Numbers |
| February 2<sup>nd</sup> | ✓ 1.3 – Multiplying and Dividing Real Numbers |
| February 3<sup>rd</sup> | ✓ 1.4 - Exponents |

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|---|---|
| February 4th | ✓ 1.5 – The Order of Operations |
| February 6th | ✓ 1.6 – Using the Distributive Property to Simplify Algebraic Expressions |
| February 9th | ✓ 1.7 – Combining Like Terms |
| February 10th | ✓ 1.8 – Using Substitution to Evaluate Algebraic Expressions and Formulas |
| February 11th | ✓ 1.9 – Grouping Symbols |
| February 13th | ✓ Chapter 1 Review |
| February 16th – President's Day | No Class |
| February 17th | ✓ Chapter 1 Test<br>✓ Chapter 1 Homework Due 11:59PM |
| February 18th | ✓ 2.1 – The Addition Principle of Equality |
| February 20th | ✓ 2.2 – The Multiplication Principle of Equality |
| February 23rd | ✓ 2.3 – Using the Addition and Multiplication Principle Together |
| February 24th | ✓ 2.4 – Solving Equations with Fractions |
| February 25th | ✓ 2.5 – Translating English Phrases into Algebraic Expressions |
| February 27th | ✓ 2.6 – Using Equations to Solve Word Problems |
| March 2nd | ✓ 2.8 – Solving Inequalities in One Variable |
| March 3rd | ✓ Chapter 2 Review |
| March 4th | ✓ Chapter 2 Test<br>✓ Live Binder Project DUE |
| March 6th | ✓ Final Exam<br>✓ Chapter 2 Homework Due by 11:59PM |