

*Montgomery College - Department of Mathematics
Germantown Campus*

**MA091 and MA091A - Elementary Algebra
0 Semester Hours**

Description	<p>A presentation of the basic concepts of algebra: linear equations in one and two variables including systems and graphing, linear inequalities, literal equations, integer exponents, polynomials, factoring, and quadratic equations. Applications are included throughout the course.</p> <p>MA091 meets 3 hours each week. MA091A meets 5 hours each week</p>
Prerequisites	<p>A grade of A, B, C, or S in MA090, appropriate score on the mathematics assessment test, or consent of department.</p> <p>MA091A is strongly recommended for students who have earned a grade of C in MA090 or who have never taken an algebra course or who are repeating MA091.</p>
Topics	<p>Assessment level: RD099/103.</p> <ul style="list-style-type: none">I. Solving linear equations and inequalities in one variableII. Solve literal equations for a specified variableIII. Graphing linear equations in two variables<ul style="list-style-type: none">1. Cartesian coordinate system2. Slope3. Deriving equations of linesIV. Solving systems of linear equations in two variablesV. ExponentsVI. Polynomials<ul style="list-style-type: none">1. Basic operations with polynomialsVII. Factoring<ul style="list-style-type: none">1. Common factors2. Trinomials3. Difference of squaresVIII. Radicals<ul style="list-style-type: none">1. Find square roots with and without a calculatorIX. Quadratic equations<ul style="list-style-type: none">1. Solve by factoring2. Solve by quadratic formula3. Modeling real-world applications with linear, quadratic, and/or rational equations as well as systems of linear equations.

Text

Beginning and Intermediate Algebra, 4th ed.; K. Elayn Martin-Gay,
Prentice Hall.