Freshman Math Placement Exam Topics
The following is a list of important topics and skills that are included on the placement exam. This list is not comprehensive, but includes the major topics and skills on the exam. Please note that the questions on the placement test are Algebra 1, college prep-level questions.

Algebra I Sections
1. **Arithmetic (Non-Calculator) - 20%**
   - Perform Arithmetic Calculations
   - Simplify Expressions using Order of Operations
   - Evaluate Expressions
   - Evaluate Expressions from Word Problems
   - Evaluate Equations in Function Notation
2. **Solving Equations/Inequalities - 25%**
   - Solve Absolute Value Equations
   - Solve Absolute Value Inequalities
   - Solve Linear Equations
   - Solve Linear Inequalities
   - Solve Systems of Linear Equations
   - Write and Solve Linear Equations, Inequalities, and Systems from Real-World Situations.
3. **Graphing & Writing Linear Equations - 25%**
   - Graph Linear Equations
   - Graph Linear Inequalities
   - Identify Domain and Range
   - Identify Function or Non-Function
   - Identify Intercepts and Slope from an Equation or a Graph
   - Identify Type of Equation/Relation
   - Identify and Use Parallel and Perpendicular Slopes
   - Write a Linear Equation in Slope Intercept Form and Standard Form
   - Writing Equations from Real-World Situations
   - Write Equations and Graph Horizontal and Vertical lines
4. **Factoring & Solving Quadratic Equations - 20%**
   - Identify Polynomial Degree and Number of Terms
   - Simplify Polynomials using Addition and Subtraction
   - Simplify Polynomials using Multiplication
   - Be able to Factor Quadratic Expressions
   - Use Factoring to Solve Quadratic Equations
5. **Exponential & Radical Properties - 10%**
   - Simplify Exponent Expressions
   - Simplify Expressions using Order of Operations
   - Solve problems using square roots