Math 126S. ... before taking Algebra Essentials II before taking Math 126S.
- o Students who are majoring in STEM will take Math 131 after successfully completing this course.
5. What prior knowledge students need to know to be successful?

- o <u>Polynomials</u>
     - Addition, subtraction, and multiplication of polynomials
     - Factoring
- o <u>Solving Equations and Inequalities</u>

Solving linear equations in one variable

Solving linear inequalities in one variable, and graphing the solution set on the number line

Solving quadratic equations by factoring

o <u>Rules of Exponents</u>
- Multiplying and dividing like bases
- Raising a term involving an exponent to a power
- Negative exponents
- Zero exponents

o <u>Rectangular Coordinate System</u>
- Plot points (x, y)
- Graph a line
- Find x- and y-intercepts

o <u>Applied Problems</u>
- Use algebra to model a life situation
- Solve a formula for a particular variable

o <u>Rational Expressions</u>
- Reducing to lowest terms
- Multiplying and dividing
- Finding the least common denominator