

Students who complete both stage 1 and stage 2 will be allowed to enroll in freshman-level math courses with the goal of earning a C or better to satisfy the TSI criteria and continue taking college courses.

STAGE 1 is composed of 'Basic Academic Math Skills' and 'Beginning Algebra and Statistics'.

Achieve a score of 90 or higher on the study path.

NOTE: All students will be encouraged to master the remaining stage 1 material, and any student who reaches a target score of 90 or higher on the stage 1 study path will unlock stage 2.



Whole Numbers

- Introduction to Whole Numbers
- Adding and Subtracting Whole Numbers
- Multiplying and Dividing Whole Numbers
- Properties of Whole Numbers
- Exponents, Square Roots, and the Order of Operations

Fractions and Mixed Numbers

- Introduction to Fractions and Mixed Numbers
- Multiplying and Dividing Fractions and Mixed Numbers
- Adding and Subtracting Fractions and Mixed Numbers

Decimals

- Introduction to Decimals
- Decimal Operations

Ratios, Rates, and Proportions

- Ratio and Rates
- Proportions

Percents

- Introduction to Percents
- Solving Percent Problems

Geometry

- Basic Geometric Concepts and Figures
- Perimeter, Circumference, and Area
- Volume of Geometric Solids

Real Numbers

- Introduction to Real Numbers
- Operations with Real Numbers
- Properties of Real Numbers
- Simplifying Expressions

Graphing

- Graphs and Applications
- Slope and Writing the Equation of a Line

Concepts in Statistics

- Statistical Graphs and Tables
- Measures of Center
- Probability

Measurement

- Metric Units of Measurement
- Temperature

STAGE 2 is composed of 'Intermediate Algebra' skills that would be expected for all students intending to pursue STEM or other mathematically intense programs at TX postsecondary institutions.

Achieve a score of 90 or higher on the study path.



Solving Equations and Inequalities

- Solving Equations
- Solving Inequalities
- Compound Inequalities and Absolute Value

Exponents and Polynomials

- Integer Exponents
- Polynomials with Single Variables
- Polynomials with Several Variables

Factoring

- Introduction to Factoring
- Factoring Polynomials
- Solving Quadratic Equations

Functions

- Introduction to Functions
- Using Functions
- Operations with Functions

Systems of Equations and Inequalities

- Graphing Systems of Equations and Inequalities
- Algebraic Methods to Solve Systems of Equations

Rational Expressions

- Operations with Rational Expressions
- Rational Equations

Radical Expressions and Quadratic Equations

- Introduction to Roots and Rational Exponents
- Operations with Radicals
- Radical Equations
- Complex Numbers
- Solving Quadratic Equations