



Math

TSI-A Curriculum

The information below describes the math test and in what students must demonstrate mastery. Student deficiencies are provided to the student at the end of the test in a score report. The score report also tells the student what they should study to become proficient. The proficiency scale runs from 1-15. Scores between 10 and 15 are considered demonstrated proficiency. This information is available to students in their WebAdvisor as well.

The cut score or passing score for Math is 350 for the Algebra Pathway and 340-349 for the Non-Algebra Pathway (student may take Math-1342 Statistics to meet the core math requirement). Students often say I only missed one question and failed but a point can actually mean they have missed mastery of a content area and consequently they may have missed a number of questions.

TSI Assessment in Math is a multiple-choice assessment that covers the four content areas listed below. There are 20 items on the TSI placement test and 10 items in each section of the DE diagnostic test. If you score well enough on the placement test, you will not need to take an additional diagnostic test.

- ❖ **Elementary Algebra and Functions** topics include:
 - ✓ Linear equations, inequalities and systems
 - ✓ Algebraic expressions and equations
 - ✓ Word problems and applications
- ❖ **Intermediate Algebra and Functions** topics include:
 - ✓ Quadratic and other polynomial expressions, equations and functions
 - ✓ Expressions, equations and functions involving powers, roots and radicals
 - ✓ Rational and exponential expressions, equations and functions
- ❖ **Geometry and Measurement** topics include:
 - ✓ Plane geometry
 - ✓ Transformations and symmetry
 - ✓ Linear, area and three-dimensional measurements
- ❖ **Data Analysis, Statistics and Probability** topics include:
 - ✓ Interpreting categorical and quantitative data
 - ✓ Statistical measures
 - ✓ Probabilistic reasoning



Score Ranges from 310 to 390.

Diagnostic tests open depending on the results of the first 20 multiple choice questions.

They are:

- ❖ DE (Developmental Education) Mathematics Diagnostic
 - ✓ Contains 48 questions
 - ✓ Opens only if too many of the initial multiple-choice questions were answered incorrectly
- ❖ ABE (Adult Basic Education) Mathematics Diagnostic
 - ✓ Contains 40 questions
 - ✓ Opens only if too many of the initial multiple-choice questions AND the 48 DE questions were answered incorrectly