



### **gtPATHWAYS CONTENT: MATHEMATICS**

- GT-MA1: MATHEMATICS FOR THE LIBERAL ARTS, ALGEBRA-BASED MODELING, AND ETC. [\[THERE ARE OTHER GTPATHWAYS MATH COURSES THAT MIGHT FIT IN HERE\]](#)
- GT-MA3: COLLEGE ALGEBRA, TRIGONOMETRY, PRE-CALCULUS, CALCULUS, AND ETC.
- GT-MA2: INTRODUCTION TO STATISTICS, STATISTICS, AND ETC.
- GT-MA4: EVERYTHING ELSE

#### **State-level Goal:**

Collectively, the general education requirement in mathematics is designed to help students:

- To develop understanding of fundamental mathematical concepts and their applications.
- To develop a level of quantitative literacy that would enable them to make decisions and solve problems and which could serve as a basis for continued learning.

#### **Content Criteria for Designating a Mathematics Course as gtPathways:**

Students should be able to:

- a) Select data relevant to solving a problem.
- b) Interpret and draw inferences from mathematical models such as formulas, graphs, and tables.
- c) Represent mathematical information symbolically, visually, numerically, and verbally.
- d) Use several methods, such as algebraic, geometric, and statistical reasoning, to solve problems.
- e) Estimate and verify answers to mathematical problems in order to determine reasonableness, identify alternatives, and select optimal results.
- f) Demonstrate an ability to generalize from specific patterns of events and phenomena to more abstract principles, and to proceed from abstract principles to specific applications.
- g) Recognize that mathematical and statistical methods have limitations.

#### **Competency Criteria for Designating an Other Mathematics Course as gtPathways:**

All GT-MA1, GT-MA2, GT-MA3 and GT-MA4 courses shall include:

- gtPathways competency in Mathematics.
- gtPathways competency in Critical Thinking



**COLORADO**

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Higher Education

Department of Higher Education

**Maximum number of Mathematics credits that are guaranteed to transfer:**

The total number of Mathematics credits guaranteed to transfer in the gtPathways curriculum is three (3) (one course or an integrated set of courses).

*11/30/2005*