COLORADO
Colorado Commission on
Higher Education
Department of Higher Education

GT PATHWAYS CONTENT CRITERIA: MATHEMATICS
o **GT-MA1**: MATHEMATICS

State-level goal:

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

- Develop an understanding of fundamental mathematical concepts and their applications.
- Develop their quantitative problem-solving skills.
- Develop a level of quantitative literacy that provides a foundation for success in their programs of study, careers, and citizenship.

Content Criteria for Designating a Mathematics Course as GT Pathways:

This course should provide students with the opportunity to / Students should be able to:

a) Demonstrate good problem-solving habits, including:
  - Estimating solutions and recognizing unreasonable results.
  - Considering a variety of approaches to a given problem, and selecting one that is appropriate.
  - Interpreting solutions correctly.
b) Generate and interpret symbolic, graphical, numerical, and verbal (written or oral) representations of mathematical ideas.
c) Communicate mathematical ideas in written and/or oral form using appropriate mathematical language, notation, and style.
d) Apply mathematical concepts, procedures, and techniques appropriate to the course.
e) Recognize and apply patterns or mathematical structure.
f) Utilize and integrate appropriate technology.

Required Competencies and Student Learning Outcomes (SLOs) for Designating a Mathematics Course as GT Pathways:

All **GT-MA1** courses shall include:

- GT Pathways competency in *Quantitative Literacy*, including SLOs1-5.
- SLO 6 is required of Statistics courses only.

Maximum Number of Credits in Mathematics That Are Guaranteed to Transfer:

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