

# Use this new form starting January 6, 2025

# **GT Pathways Curriculum**

# Course Submittal Form and Institutional Verification

Content Area: Mathematics (GT-MA1) Subcategory: None

> Date: \_\_\_\_\_\_ Institution: \_\_\_\_\_\_

# Section I: Mathematics Content Criteria - GT-MA1

The following required <u>MA1 content criteria</u> shall be either: 1) *copied and pasted verbatim* into each instructor's syllabus, <u>OR</u> 2) *mapped* to the institution's own content criteria in each instructor's syllabus:

- 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.





## Section II: Competencies & Student Learning Outcomes for GT-MA1

The following Student Learning Outcomes (SLOs) for the required GT-MA1 competency, <u>Quantitative Literacy</u>, shall be either: 1) copied and pasted verbatim into each instructor's syllabus, <u>OR</u> 2) mapped to the institution's own competencies and SLOs in each instructor's syllabus.

#### Quantitative Literacy:

#### 1. Interpret Information

a. Explain information presented in mathematical forms (e.g., equations, graphs, diagrams, tables, words).

#### 2. Represent Information

a. Convert information into and between various mathematical forms (e.g., equations, graphs, diagrams, tables, words).

#### 3. Perform Calculations

- a. Solve problems or equations at the appropriate course level.
- b. Use appropriate mathematical notation.
- c. Solve a variety of different problem types that involve a multistep solution and address the validity of the results.

#### 4. Apply and Analyze Information

- a. Make use of graphical objects (such as graphs of equations in two or three variables, histograms, scatterplots of bivariate data, geometrical figures, etc.) to supplement a solution to a typical problem at the appropriate level.
- b. Formulate, organize, and articulate solutions to theoretical and application problems at the appropriate course level.
- c. Make judgments based on mathematical analysis appropriate to the course level.

#### 5. Communicate Using Mathematical Forms

a. Express mathematical analysis symbolically, graphically, and in written language that clarifies/justifies/summarizes reasoning (may also include oral communication).

#### 6. Address Assumptions (required of Statistics courses only)

a. Describe and support assumptions in estimation, modeling, and data analysis, used as appropriate for the course.



# Section III: GT-MA1 Courses to Include in GT Pathways Curriculum

Add additional rows as needed.

Course Prefix & Number	Course Title	Number of Credits	Effective Date

# Section IV: Institutional Process to Verify GT Pathways Compliance

Brief description of the on-campus process(es) used to ensure that, going forward, instructors are uniformly and consistently communicated to regarding the following expectations: (1) either copy and paste verbatim the required GT Pathways content criteria, competencies, and SLOs into their syllabi, or (2) map the required GT Pathways content criteria, competencies, and SLOs. (Provide a link, add additional rows or attach a document, if necessary.):



## Section V: Institutional Verification

- 1. I verify that the courses listed above are part of our institution's general education core.
- 2. I verify that the courses listed above are offered at least once every two years (for CCCS, offered at a campus in the System).
- I verify that course instructors are uniformly and consistently director to include the required GT Pathways content criteria and competencies/Student Learning Outcomes, and that our institution will make a good faith effort to ensure faculty have the necessary resources to teach these content criteria and competencies.
- 4. I verify that instructors of these courses will be/have been directed to include the following statement in their course syllabi:

The Colorado Commission on Higher Education has approved [course prefix & number] for inclusion in the Guaranteed Transfer (GT) Pathways program in the [GT-XXX] category. For transferring students, successful completion with a minimum C- grade guarantees transfer and application of credit in this GT Pathways category. For more information on the GT Pathways program, please visit the <u>Colorado Department of Higher Education website</u>.

Chief Academic Officer:

Printed Name

Signature

Date