



COLORADO

Department of
Higher Education

Use this new form starting January 6, 2025

GT Pathways Curriculum

Course Submittal Form and Institutional Verification

Content Area: Natural & Physical Sciences

Subcategory: **GT-SC1 - Course with Required Laboratory**

Date: _____

Institution: _____

Section I: Natural & Physical Sciences Content Criteria - **GT-SC1**

The following required [N&PS content criteria](#) shall be either: 1) *copied and pasted verbatim* into each instructor's syllabus, OR 2) *mapped* to the institution's own content criteria in each instructor's syllabus:

1. The lecture content of a GT Pathways science course (**GT-SC1** or GT-SC2):
 - a. Develop foundational knowledge in specific field(s) of science.
 - b. Develop an understanding of the nature and process of science.
 - c. Demonstrate the ability to use scientific methodologies.
 - d. Examine quantitative approaches to study natural phenomena.

2. The laboratory (either a combined lecture and laboratory, or a separate laboratory tied to a science lecture course) content of a GT Pathways science course (**GT-SC1**):
 - a. Perform hands-on activities with demonstration and simulation components playing a secondary role.
 - b. Engage in inquiry-based activities.
 - c. Demonstrate the ability to use the scientific method.
 - d. Obtain and interpret data, and communicate the results of inquiry.
 - e. Demonstrate proper technique and safe practices.





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Section II: Competencies & Student Learning Outcomes for **GT-SC1**

The following Student Learning Outcomes (SLOs) for the required GT-SC1 competencies, *Inquiry & Analysis* and *Quantitative Literacy*, shall be either: 1) *copied and pasted verbatim* into each instructor's syllabus, **OR** 2) *mapped* to the institution's own competencies and SLOs in each instructor's syllabus.

Inquiry & Analysis:

4. **Select or Develop a Design Process**
 - a. Select or develop elements of the methodology or theoretical framework to solve problems in a given discipline.
5. **Analyze and Interpret Evidence**
 - a. Examine evidence to identify patterns, differences, similarities, limitations, and/or implications related to the focus.
 - b. Utilize multiple representations to interpret the data.
6. **Draw Conclusions**
 - a. State a conclusion based on findings.

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).



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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).
3. I verify that course instructors are uniformly and consistently directed 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 [Colorado Department of Higher Education website](#).

Chief Academic Officer:

Printed Name

Signature

Date