**GT Pathways Curriculum**

**COURSE SUBMITTAL FORM & INSTITUTIONAL VERIFICATION**

**CONTENT AREA: NATURAL & PHYSICAL SCIENCES**

**SUBCATEGORY: GT-SC1 – Course with Required Laboratory**

Date:

Institution:

**SECTION I. NATURAL & PHYSICAL SCIENCES (N&PS) CONTENT CRITERIA – GT-SC1.**

**The following required** [**N&PS content criteria**](http://highered.colorado.gov/Academics/Transfers/gtPathways/Criteria/content.html) **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):
   1. Develop foundational knowledge in specific field(s) of science.
   2. Develop an understanding of the nature and process of science.
   3. Demonstrate the ability to use scientific methodologies.
   4. 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**):
   1. Perform hands-on activities with demonstration and simulation components playing a secondary role.
   2. Engage in inquiry-based activities.
   3. Demonstrate the ability to use the scientific method.
   4. Obtain and interpret data, and communicate the results of inquiry.
   5. Demonstrate proper technique and safe practices.

**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***](http://highered.colorado.gov/Academics/Transfers/gtPathways/Criteria/competency.html)***:***

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

## [*Quantitative Literacy*](http://highered.colorado.gov/Academics/Transfers/gtPathways/Criteria/competency.html)*:*

1. **Interpret Information**
2. Explain information presented in mathematical forms (e.g., equations, graphs, diagrams, tables, words).
3. **Represent Information**
   1. Convert information into and between various mathematical forms (e.g., equations, graphs, diagrams, tables, words).

**SECTION III. GT-SC1 COURSES TO INCLUDE IN GT PATHWAYS CURRICULUM.**

Add additional rows as needed.

|  |  |  |  |
| --- | --- | --- | --- |
| **Course Prefix & Number** | **Course Title** | **Number of Credits** | **Is this course a NEW submission?** |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

**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 to the institution’s own 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).
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-@@#] 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, go to <http://highered.colorado.gov/Academics/Transfers/gtPathways/curriculum.html>.

Chief Academic Officer:

Printed Name

Signature

Date: