**GT-SC1: Natural & Physical Sciences with Required Laboratory**

**Required Syllabus Information**

Effective Implementation date: Spring 2018, 201830

The text in red font is explanatory and should not be included in syllabi. The text in black font is required in every instructor’s syllabus per State Board for Community Colleges and Occupational Education (SBCCOE) and Colorado Commission on Higher Education (CCHE).

**Course Prefix and Number:**

**Course Title:**

**Course Credits:**

**Course Description:** [from CCNS; you may add language but you may not subtract]

**Guaranteed Transfer (GT) Pathways Course Statement:**

The Colorado Commission on Higher Education has approved [*insert course prefix & number*] for inclusion in the Guaranteed Transfer (GT) Pathways program in the GT- SC1 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 <https://highered.colorado.gov/academics/transfers/gtpathways/curriculum.html>.

**GT-SC1: NATURAL & PHYSICAL SCIENCES CONTENT CRITERIA**

[*the Content Criteria shall be either copied from here and pasted into the syllabus or mapped to the CCNS Required Course Learning Outcomes*]

Students should be able to:

1. The lecture content of a GT Pathways science course (GT-SC1):
   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.

**GT-SC1 COMPETENCIES & STUDENT LEARNING OUTCOMES**

[*the Competencies & Student Learning Outcomes shall be either copied from here and pasted into the syllabus or mapped to the CCNS Required Course Learning Outcomes*]

***Competency: Inquiry & Analysis:***

Students should be able to:

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

***Competency: Quantitative Literacy:***

Students should be able to:

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

**REQUIRED COURSE LEARNING OUTCOMES**

[*copy and paste the CCNS Required Course Learning Outcomes here*]

**REQUIRED TOPICAL OUTLINE**

[*the Required Topical Outline shall be either copied and pasted from CCNS or integrated within the assignment schedule*]

**LEGAL COMPLIANCE**

[*CCCS requirements are forthcoming; contact your VPI/CAO for specific college requirements*]

**\*\*\*END REQUIREMENTS\*\*\***

**The links to source documents below are provided for your information only:**

GT Pathways Content Criteria: Natural & Physical Sciences: <https://highered.colorado.gov/Academics/Transfers/gtPathways/Criteria/Content/Content_Natural_Physical%20Sciences_2016_06_02_CCHE_approved.pdf>

GT Pathways Competency: Inquiry & Analysis: <https://highered.colorado.gov/Academics/Transfers/gtPathways/Criteria/Competency/Competency_Inquiry_and_Analysis.pdf>

GT Pathways Competency: Quantitative Literacy: <https://highered.colorado.gov/Academics/Transfers/gtPathways/Criteria/Competency/Competency_Quantitative_Literacy.pdf>

New GT Pathways Review/Approval Process (October 20, 2016): <https://highered.colorado.gov/Academics/Transfers/gtPathways/New_GT_Pathways_Announcement_from_CDHE.pdf>

GT Pathways General Education Curriculum: <https://highered.colorado.gov/Academics/Transfers/gtPathways/curriculum.html>