

# SYLLABUS for PH 110

**Class:** PH 110, Physics of Everyday Phenomena

**Course Description:** Fundamental concepts of physics and elementary quantitative reasoning applied to phenomena in everyday life and beyond.

**Prerequisites:** None

## Course Policies

Instructor contact information, office hours, textbook, grading scheme, due dates and schedules, and other semester-dependent information will be provided in a Course Information document which will be handed out in class (along with this document) and/or made available on the course web page.

## Make-up Exams

Exams must be taken at the times stated in the Course Information document. Exceptions will be made for conflicts with University-approved activities, or events beyond your control that cannot be rescheduled (e.g., hospitalization). In either case it is the student's responsibility to inform the instructor of the situation in due course (in advance, for University-approved activities, and as soon as practical in the case of medical emergencies) and to provide appropriate written documentation. We encourage students who are affected by serious injuries and other types of crisis that interfere with their academic performance to contact the Student Case Management and Referral Coordination office; their phone number is 970-491-8051.

## Disabilities

Colorado State University is committed to providing reasonable accommodations for all persons with disabilities. Students must contact the Student Disability Center (SDC) prior to requesting accommodations for this class. Requests for alternative exam arrangements must be made at least one week in advance. SDC is located in Room 121, TILT Building; their phone is 970-491-6385 (V/TDD) and their website is <http://disabilitycenter.colostate.edu>

## Religious Accommodation

Students seeking exemptions from attending class or completing assigned course work on account of a religious holiday will find information at <http://oeo.colostate.edu/religious-accommodation>

## Academic Integrity

This course will adhere to the CSU Academic Integrity Policy as found on the Student Responsibilities page of the CSU General Catalog and in the Student Conduct Code.

See the Course Information document for specific policies associated with this class.

## Incompletes

Temporary grades of Incomplete may be given at the discretion of the instructor, consistent with University policy as described in <http://registrar.colostate.edu/faculty-staff/incomplete-grades/>

## The GT Pathways Program and Learning Outcomes

The Colorado Commission on Higher Education has approved PH 110 for inclusion in the Guaranteed Transfer (GT) Pathways program in the GT-SC2 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, see <http://higherred.colorado.gov/academics/transfers/gtpathways/curriculum.html>

The content criteria and student learning outcomes (SLOs) listed below are required for GT-Pathways courses in the Natural and Physics Sciences content area, in the GT-SC2 (Lecture course without required laboratory) category. The peculiar numbering of the SLOs is due to the fact that they are excerpted from a comprehensive list of SLOs across all GT-Pathways content areas. The SLOs are listed within categories that the GT-Pathways program calls "competencies" and are displayed in italics below.

### Content Criteria

1. The lecture content of a GT Pathways Science course:

- a. Develop foundational knowledge in the specific fields(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.

## Student Learning Outcomes

### *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).