This course is designed to supplement PHYS G110. The student will do laboratory exercises which illustrate some of the phenomena discussed in Physics G110. UC credit limitations: No credit for PHYS G110, PHYS G111 if taken after PHYS G120 or PHYS G185.

**JUSTIFICATION FOR COURSE:**

**PREREQUISITES:**
- PHYS G110: Conceptual Physics with a minimum grade of C or better

**COREQUISITES:**

**ASSIGNED DISCIPLINES:**
- Physics/Astronomy

**MATERIAL FEE:** Yes [ ] No [X] Amount: $0.00

**CREDIT STATUS:** Noncredit [ ] Credit - Degree Applicable [X] Credit - Not Degree Applicable [ ]

**GRADING POLICY:** Pass/No Pass [X] Standard Letter [X] Not Graded [ ] Satisfactory Progress [ ]

**OPEN ENTRY/OPEN EXIT:** Yes [ ] No [X]

**TRANSFER STATUS:** CSU Transferable[ ] UC/CSU Transferable[X] Not Transferable[ ]

**BASIC SKILLS STATUS:** Yes [ ] No [X] LEVELS BELOW TRANSFER: Not Applicable

**CALIFORNIA CLASSIFICATION CODES:** Y - Not Applicable

**NON CREDIT COURSE CATEGORY:** Y - Not applicable, Credit Course

**OCCUPATIONAL (SAM) CODE:** E

**REPEATABLE ACCORDING TO STATE GUIDELINES:** No [X] Yes [ ] NUMBER REPEATS:

**REQUIRED FOR DEGREE OR CERTIFICATE:** No [ ] Yes [X]

**GE AND TRANSFER REQUIREMENTS MET:**
- IGETC Area 5: Physical and Biological Sciences
  - 5C: Laboratory Activity
- CSU GE Area B: Scientific Inquiry and Quantitative Reasoning
  - B3 - Laboratory Sciences

**COURSE LEVEL STUDENT LEARNING OUTCOME(S) Supported by this course:**

- explain observations based upon current physics theory.
PHYS G111-Conceptual Physics Lab

1. explain observations based upon current physics theory.
2. generate a written report describing his/her observations.
3. describe various phenomena associated with the subject discussed in Physics 110.

COURSE OBJECTIVES:
1. Observe various phenomena associated with the subject discussed in Physics G110 and write a report describing their observations.
2. Explain their observations based upon current physics theory.

COURSE CONTENT:
   LECTURE CONTENT:
   A. Lab experiments dealing with motion, heat, and atomic physics.
   LABORATORY CONTENT:
   Lab experiments dealing with motion, heat, and atomic physics.

METHODS OF INSTRUCTION:
   A. Lab:
   B. Independent Study:

INSTRUCTIONAL TECHNIQUES:

COURSE ASSIGNMENTS:
   Reading Assignments
   Lab syllabus
   Out-of-class Assignments
   None required.
   Writing Assignments
   Formal lab report based upon critical thinking (evaluation of data).

METHODS OF STUDENT EVALUATION:
   Report
   Demonstration of Critical Thinking:
   Conclusion in their lab report.
   Required Writing, Problem Solving, Skills Demonstration:
   Formal lab report based upon critical thinking (evaluation of data).

TEXTS, READINGS, AND RESOURCES:
   TextBooks:
   1. B. Gilpin. Lab syllabus, ed. GWC, 0

LIBRARY:
   Adequate library resources include:
   Comments:

Attachments:
   Attached Files