COURSE OUTLINE OF RECORD

Number: PHYS G111  TITLE: Conceptual Physics Lab

ORIGINATOR: Konrad Stein  EFF TERM: Fall 2011
FORMERLY KNOWN AS:  DATE OF OUTLINE/REVIEW: 12-13-2011
CROSS LISTED COURSE:  TOP NO: 1902.00

SEMESTER UNITS: 1.0
HRS LEC: 0.0  HRS LAB: 54.0  HRS OTHER: 0.0
CONTACT HRS TOTAL: 54.0
STUDY NON-CONTACT HRS RECOMMENDED: 0.0
CATALOG DESCRIPTION:
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:

ADVISORIES:

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]

Liberal Arts: Emphasis in Science(Associate in Arts)

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:
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