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

TOP NO: 1902.00

CROSS LISTED COURSE:

CID:

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 Physics G110. The student will do laboratory exercises which illustrate some of the phenomena discussed in Physics G110. UC credit limitations. No credit given if taken after G120 or 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:

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

5A: Physical Science

x

x

CSU GE Area B: Scientific Inquiry and Quantitative Reasoning

B1 - Physical Science

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