COURSE SYLLABUS

LAST REVIEW	Spring 2021
COURSE TITLE	Introductory Physics Lab
COURSE NUMBER	NASC-0131
DIVISION	Math, Science, Business & Technology
DEPARTMENT	Physical Sciences
CIP CODE	24.0101
CREDIT HOURS	1
CONTACT HOURS/WEEK	Lab: 2
PREREQUISITES	None
COREQUISITES	NASC-0130, Introductory Physics
COURSE PLACEMENT	None

COURSE DESCRIPTION

A laboratory related to Introductory Physics (NASC-0130). Around 12-15 introductory laboratory experiments are done during semester. Schedule: Two hours of lab work per week.

General Education Learning Outcome

- Basic Skills for Communication
- Mathematics
- Humanities

Natural and Physical Sciences

Social and Behavioral Sciences

Institutional Learning Outcomes

- Communication
- Computation and Financial Literacy
- Critical Reasoning
- Technology and Information Literacy
 - Community and Civic Responsibility
 - Personal and Interpersonal Skills

TEXTBOOKS

http://kckccbookstore.com/

METHODS OF INSTRUCTION

A variety of instructional methods may be used depending on content area. These include but are not limited to: lecture, multimedia, cooperative/collaborative learning, labs and demonstrations, projects and presentations, speeches, debates, panels, conferencing, performances, and learning experiences outside the classroom. Methodology will be selected to best meet student needs.

COURSE OUTLINE

The course outline is indicated below and is subject to change as course development dictates.

Laboratory materials are designed including but not limited to the following topics:

- I. Measurement
- II. Motion
- III. Newton's Laws
- IV. Energy & Conservation Laws
- V. Physics of Matter
- VI. Temperature & Heat
- VII. Waves & Sound
- VIII. Electricity
- IX. Electromagnetism and EM Waves
- X. Optics
- XI. Photoelectric Effect
- XII. Radioactivity

COURSE LEARNING OUTCOMES

Upon successful completion of this course, the student will:

- A. Be able to write the propose of the experiments
- B. Be able to list the instruments needed to perform the experiment.
- C. Be able to write the appropriate theory and equations needed to perform the experiments.
- D. Be able to set up the experiments to get the appropriate data for the experiment.
- E. Be able to gather all the data for analysis and calculation
- F. Be able to analyze and perform the calculation to find the result using essential tools.
- G. The learner will be able to interpret the result and write the conclusion.

ASSESSMENT OF COURSE LEARNING OUTCOMES

Student progress is evaluated through both formative and summative assessment methods. Specific details may be found in the instructor's course information document.

COLLEGE POLICIES AND PROCEDURES

Student Handbook https://www.kckcc.edu/files/docs/student-resources/student-handbook-and-code-ofconduct.pdf College Catalog https://www.kckcc.edu/academics/catalog/index.html

College Policies and Statements

https://www.kckcc.edu/about/policies-statements/index.html

Accessibility and Accommodations

https://www.kckcc.edu/academics/resources/student-accessibility-supportservices/index.html.