

El Paso Community College

Syllabus

Part II

Official Course Description

SUBJECT AREA	<u>Physics</u>
COURSE RUBRIC AND NUMBER	<u>PHYS 1115</u>
COURSE TITLE	<u>Principles of Physical Science</u> <u>Laboratory I</u>
COURSE CREDIT HOURS	<u>1 0 2</u> Credits Lec Lab

I. Catalog Description

Accompanies PHYS 1315, Principles of Physical Science I a laboratory-based course. Provides activities that reinforce principles of Physics using algebra; the principles include Newton's Laws, basic mechanics, thermodynamics, optics and wave theory. **Corequisite: PHYS 1315. (0:2). Lab fee.**

II. Course Objectives

Upon satisfactory completion of this laboratory course, the student will be able to:

- A. Utilize measuring devices to apply acquired knowledge about standard units to accurately solve problems related to conversion and the units of physical properties.
- B. Apply Kinematics' concepts such as distance, displacement, velocity, speed and acceleration in various situations to be able to solve physics problems.
- C. In order to explain various concepts of Dynamics, students will apply acquired knowledge about Newton's Laws work, power, and energy and conservation laws.
- D. Experiment with heat and temperature changes to relate to acquired knowledge about thermodynamic laws of gasses and matter.
- E. Apply Archimedes' principles to describe physical phenomena about density, and flotation in different media.
- F. Apply concepts of Optics and Light to be able to explain various life events related to physical phenomena such as reflection, refraction, lens effects, mirror effects, and other applications.
- G. Apply concepts related to color, electromagnetic spectrum, color vision, color addition, and color subtraction to explain LIGHT related events' physical phenomena.

III. Evaluation

- A. Preassessment
There is no preassessment for this course.
- B. Postassessment
The scheduling of laboratory exercises will be the sole prerogative of the instructor. This will be indicated to the student in the course syllabus that is distributed at the beginning of the semester. The philosophy of the college endorses frequent evaluation.
- C. Remediation
The instructor may provide a student with a means of improving a grade. The timing, form, and method of remediation will be determined by the instructor and included in the course syllabus.

D. Grading

All grading will follow current EPCC Catalog standards. The assignment of letter grades to percent scores obtained in various class activities will be determined by the instructor and included in the course syllabus.

IV. Disability Statement (Americans with/Disabilities Act [ADA])

EPCC offers a variety of services to persons with documented sensory, mental, physical, or temporary disabling conditions to promote success in classes. If you have a disability and believe you may need services, you are encouraged to contact the Center for Students with Disabilities to discuss your needs with a counselor. All discussions and documentation are kept confidential. Offices located: VV Room C-112 (831-2426); TM Room 1400 (831-5808); RG Room B-201 (831-4198); NWC Room M-54 (831-8815); and MDP Room A-125 (831-7024).

V. 6 Drop Rule

Students who began attending Texas public institutions of higher education for the first time during the fall 2007 semester or later are subject to a 6-Drop limit for all undergraduate classes. Developmental, ESL, Dual Credit and Early College High School classes are exempt from this rule. All students should consult with their instructor before dropping a class. Academic assistance is available. Students are encouraged to see Counseling Services if dropping because exemptions may apply. Refer to the EPCC catalog and website for additional information.