

SUFFOLK COUNTY COMMUNITY COLLEGE

ABBREVIATED COLLEGE COURSE SYLLABUS FORM

A course syllabus is not the same as a course outline. A course syllabus outlines the general requirements for a course. A course outline is the specific document created by the individual faculty member to distribute to a specific course section. This is an "abbreviated" course syllabus because it is only collecting information on the course number, title, description, and learning outcomes. Please submit this completed form electronically to Dean Britton.

PLEASE NOTE: Any changes made to the Course Number, Title, or Catalog Description must go through the regular faculty governance process. This Expedited Process of Approval, which expires in March 2012, only pertains to approval of the Learning Outcomes. Therefore, this is NOT the form to be used to change course numbers, titles, or descriptions. This is NOT the form to use for proposing a new course. (See the Governance website for those types of proposals.)

- I. Course Number and Title:** PHY246 Physics 3 laboratory
- II. Catalog Description:** AC circuit theory, waves, physical optics, and special topics in electromagnetic waves and electronics. (2 hours. laboratory.) 1 credit. hour. Corequisite: PHY 245. Note: Fulfills SUNY General Education Requirement for Natural Sciences.

- III. *Learning Outcomes:** *(Main concepts, principles, and skills you want students to learn from this course) The Learning Outcomes listed here should be considered the minimum core outcomes for the course. Many other learning outcomes may also be a part of the learning experience within the course.*

Upon completion of this course, students will be able to:

- A.** Demonstrate on an experimental basis the concepts taught in PHY 245.
- B.** Construct simple low pass and high pass electronic filters.
- C.** Properly use various laboratory detection instruments such as the oscilloscope, impedance meter, signal generators and signal counters.
- D.** Utilize lasers to make fine accurate measurements safely.
- E.** Design useful circuits using resistors, capacitors, and inductors.
- F.** Measure and calculate the speed, amplitude, frequency and length of a standing wave.
- G.** Determine the resultant frequency of a wave due to a source in motion.

*These statements must appear verbatim in course outlines. However, additional outcomes may be added to individual course outlines at the instructor's discretion.

- H. Distinguish between simple, forced and damped motion on an air track.
- I. Construct a simple telescope and microscope accurately predicting its power.
- J. Write a coherent laboratory report, including error analysis.

Name of Discipline Lead: **Glenda Denicoló**

Discipline Vote:

For **3** Against **0** Abstention **0**

Date of Vote: **03/02/2010**

__(Initial and Date)_____ Certification of Vote by AVP of Academic Affairs

__(Initial and Date)_____ Certification of Vote by College Curriculum Chair

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