

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:** PHY110 Automotive Physics
- II. Catalog Description:** Basic course which acquaints ASEP students with some fundamental aspects of physics. Covers Newtonian dynamics including conservation of energy and momentum, and rotational motion. In addition, selected topics in strength of materials, fluids and thermodynamics are covered. Emphasis on applications to automotive system. Prerequisite: MAT007.
- 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.** Apply the laws of physics in areas of kinematics and dynamics, force, momentum and collisions, work/energy concepts, rotational motion, behavior of fluids and basic thermodynamics, electricity, simple circuits, and electromagnetism.
- B.** Understand the physical principles behind simple machines.
- C.** Understand the physical principles behind production of electricity and electromagnets.
- D.** Interpret graphical data and do linear fits.

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

- E. Use basic algebra throughout the course in formulating principles and solving word problems.
- F. Apply critical thinking skills in analyzing multi-step word problems and formulating solutions.
- G. Work as part of a team on projects involving application of the physical concepts.
- H. Work in a technical setting such as a laboratory and be able to present findings in a coherent report.

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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