Curriculum Committee

Change of Course Proposal

FLORIDA SOUTHWESTERN STATE COLLEGE

School or Division	School of Pure and Applied Sciences
Program or Certificate	General Education Program
Proposed by (faculty only)	Dr. Yadab Paudel
Presenter (faculty only)	Dr. Yadab Paudel
Note that the presenter (faculty) listed above must be present at the Curriculum Committee meeting or the proposal will be returned to the School or Division and be resubmitted for a later date.	
Submission date	2/10/2016
Current course prefix, number, and title	PHY2048L, General Physics I Lab

Section I, Proposed Changes

Change to course prefix and number Lecture/lab course combined must include "C" / lab course must include "L"	List new course prefix and number
Change to course title	List new course title
Change of School, Division, or Department	List new school, division, or department
Change to course prerequisite(s) and minimum grade(s) (must include minimum grade if higher than a "D")	From: To:
Change to course corequisites	From: To:
Is any corequisite for this course listed as a corequisite on its paired course? (Ex. CHM 2032 is a corequisite for CHM 2032L, and CHM 2032L is a corequisite for CHM 2032)	Choose an item. List the corequisite
Change to course credits or clock hours	From: To:
Change to contact hours (faculty load)	From: To:
Change to grade mode	Choose an item.
Change to credit type	Choose an item.
Change to course description (provide below)	
Type in entire new course description here	
Change to general topic outline (type in entire new outline below)	
• Experimental uncertainty (errors) and data analysis • Measuring density • Acceleration of gravity • Addition and resolution of forces • Atwood machine	

- Friction
- Centripetal force
- Work and energy
- Projectile motion: the ballistic pendulum
- Torques, equilibrium, and center of gravity
- Simple harmonic motion
- Simple pendulum
- Archimedes' principle
- Standing waves
- Speed of sound in air

Change to Learning Outcomes: For information purposes only.

IV. Course Competencies, Learning Outcomes and Objectives

A. General Education Competencies and Course Outcomes

1. Integral *General Education Competency or competencies*:
   Evaluate

Course Outcomes or Objectives Supporting the General Education Competency Selected:

Learning Outcomes	Assessments	General Education Competencies
Recognize the effects of errors in measurements and illustrate their impact on the experimental data and results.	Lab reports, exams and/or projects.	Evaluate and utilize mathematical principles, technology, scientific and quantitative data.
Use appropriate measuring devices in distinguishing between measurements/determination mass and density, and experimentally determine the density of a given object.		
Investigate the laws of motion and experimentally determine the acceleration of gravity and of a given object in linear and circular motion.		
Apply and distinguish between graphical and analytical methods in calculating physical quantities.		
Evaluate the validity of empirical "laws" as they relate to the experimental determination of the coefficient of friction between two given surfaces and Hooke's law in simple harmonic motion.		

Explain the relationship between work and energy and compare and contrast conservation laws for ideal systems with the non-conservative aspects of situations under laboratory conditions.		
Investigate and distinguish between the concepts of "center of mass" and "center of gravity" while experimenting with the static equilibrium of an object under the influence of forces and torques.		
Distinguish between the quantities "density" and "specific gravity"; apply Archimedes' principle in determining these quantities for solid and liquid samples.		
Distinguish between the concepts of "node," "antinode," and "resonance" in your investigation of waves and experimentally calculate the speed of a wave.		

2. Supplemental *General Education Competency or competencies*:
   None

B. In accordance with Florida Statute 1007.25 concerning the state's general education core course requirements, this course along with PHY 2048 meets the general education competencies for *science.*

1. Students will demonstrate the ability to critically examine and evaluate scientific observation, hypothesis, or model construction, and to use the scientific method to explain the natural world.
2. Students will successfully recognize and comprehend fundamental concepts, principles and processes about the natural world

C. Other Course Objectives/Standards
None

Section II (must complete each item below)

Should any major restrictions be listed on this course? If so, select "change" and list the appropriate major restriction codes or select no change.	No change
Change course to an "International or Diversity Focus" course?	No, not International or Diversity Focus
Change course to a General Education course?	No

Change course from General Education to non-General Education?	No
Change course to a Writing Intensive course?	No
Change course from Writing Intensive to non-Writing intensive?	No
Change course to repeatable? (A repeatable course may be taken more than one time for additional credits. For example, MUT 2641, a 3 credit hour course can be repeated 1 time and a student can earn a maximum of 6 credits). *Not the same as Multiple Attempts or Grade Forgiveness	No

Impact of Change of Course Proposal	
Will this change of course proposal impact other courses, programs, departments, or budgets?	No
If the answer to the question above is "yes", list the impact on other courses, programs, or budgets?	
Have you discussed this proposal with anyone (from other departments, programs, or institutions) regarding the impact? Were any agreements made? Provide detail information below.	
No	

Section III, Justification for proposal

Provide justification (below) for each change on this proposed curriculum action
The removed topics from topic outline are covered in PHY 2049L and should not appear in the topic outline for PHY 2048L.

Section IV, Important Dates and Endorsements Required

List all faculty endorsements below. (Note that proposals will be returned to the School or Division if faculty endorsements are not provided).
Prof. George Manacheril, Dr. Marius Coman

NOTE: Course and Program changes must be submitted by the dates listed on the published Curriculum Committee Calendar. Exceptions to the published submission deadlines must receive prior approval from the Provost's Office.

VPAA: Revised 11/11, 6/12, 6/13, 7/14, 8/15, 8/16

Term in which approved action will take place	Fall 2017
Exception to term (other than Fall 2016)	Choose an item.
Provide an explanation below for the requested exception to the Fall 2016 term effective date.	

Any exceptions to the term start date (other than Fall 2016) requires the signatures of the Academic Dean or Associate Vice President and the Provost and Vice President of Academic Affairs prior to submission to the Dropbox.		
Dean or Associate Vice President	**Signature**	**Date**
Provost and VPAA	**Signature**	**Date**
Dr. Jeff Stewart		

Required Endorsements	**Type in Name**	**Select Date**
Department Chair or Program Coordinator/Director	George Manacheril	2/10/2016
Academic Dean or Associate Vice President	Dr. Martin McClinton	10/7/2016

All Curriculum proposals require approval of the Curriculum Committee and the Provost. Final approval or denial of a proposal is reflected on the completed and signed proposal.

☑ Approve ☐ Do not approve

Don Ramsford — 11/09/2016

Curriculum Committee Chair Signature — Date

☒ Approve ☐ Do not approve

Jeff Short — 11/9/16

Provost Signature — *Date*

VPAA: Revised 11/11, 6/12, 6/13, 7/14, 8/15, 8/16