

Curriculum Committee

Change of Course Proposal

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	PHY2048, General Physics I

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)	
<ul style="list-style-type: none"> • Systems of measurement, and dimensional analysis • Motion in one, two, and three dimensions • Newton's Laws and their applications • Work, energy, and conservation of energy • Systems of particles, collisions, center of mass, and conservation of linear momentum • Rotational motion and centripetal acceleration 	

- Conservation of angular momentum
- Gravity
- Static and rotational equilibrium, and elasticity
- Fluids, Archimedes' principle, and Bernoulli's equation
- Oscillations and waves

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
<ul style="list-style-type: none"> • Describe the principle of dimensional analysis and use it to derive approximate expressions of physical laws. • Identify the SI system of units and analyze the differences between base and derived units. • Interpret the laws of motion and apply them to solve problems in one and two dimensions. • Differentiate between and among the concepts of work, power, energy, and conservation of energy; examine the applications of these concepts, and use them to interpret and explain natural phenomena. • Define the concept of center of mass and use it to analyze the motion of a system of particles. • Describe the law of conservation of momentum, examine its applications, and use it to interpret and explain natural phenomena. • Apply the concepts of momentum and energy to explain collisions. 	<p>Homework and/or quizzes and/or tests and/or assignments/classroom tasks.</p>	<p>Evaluate and utilize mathematical principles, technology, scientific and quantitative data.</p>

<ul style="list-style-type: none"> • Describe the concept of circular motion and use it to solve problems. • Use the laws of rotational kinematics and compare linear motion with rotational motion. • Describe the law of gravitation as it relates to natural phenomena; combine this law with the laws of motion to explain planetary orbits. • Analyze the conditions for static and rotational equilibrium and use the concept of torque to explain natural phenomena. • Describe the concepts related to fluid pressure and buoyancy and use Bernoulli's equation to explain natural phenomena. • Explain the properties of oscillations, waves and the Doppler effect; apply these concepts to natural phenomena. 		
<p>2. Supplemental <i>General Education Competency or competencies</i>: None</p> <p>B. In accordance with Florida Statute 1007.25 concerning the state's general education core course requirements, this course along with PHY 2048L meets the general education competencies for <i>science</i>.</p> <ol style="list-style-type: none"> 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 <p>C. Other Course Objectives/Standards None</p>		

Section II (must complete each item below)

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

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 2049 and should not appear in the topic outline for PHY 2048.

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.

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.

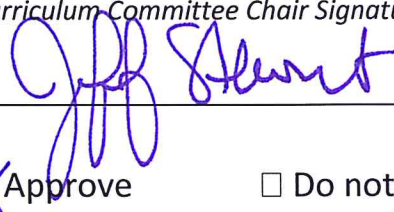
Approve Do not approve



11/09/2016

Curriculum Committee Chair Signature

Date



Approve Do not approve

Provost Signature

Date

[Faint handwritten signature and date]