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PROCEDURAL SEQUENCE FOR ACADEMIC SENATE APPROVAL OF PROPOSALS

1. Submit all proposals to the Office of Academic Affairs.
2. The Senate President will log items and forward them to the appropriate Senate subcommittees.
3. The Senate subcommittee will send the proposal to the Senate.
4. Senate proposals will be considered by the Full Faculty.
5. If approved, the proposal will then be forwarded to the Provost/Senior Vice Chancellor.

Proposals that require action to approve/disapprove/table or remand will be sent back to the Senate according to the monthly meeting schedule.

TITLE: Proposal to revise PHYS 231

SUBCOMMITTEE: Teacher ED PROPOSAL #: 00-21

PROPOSAL:

This proposal is to change PHYS 231 from 4 credit hours, which includes lecture and laboratory, into a 3 credit course consisting of solely a lecture component and to add a separate laboratory class that meets 4 hours a week for 2 credit hours.

The rationale for this change is based on the OPI mandate of 10 credit hours in Physics. In the current arrangement, a student would have to take 3 semesters of physics to meet this requirement. This arrangement is also more consistent with other colleges' physics courses.

Action Signatures:

[Signature] 12-1-2000
Submitter Date

[Signature]
Committee Chair **TEC**

Thomas M. Welch (curr)
Committee Chair

[Signature]
Faculty Senate President

Roger Barbn
Provost/Senior Vice Chancellor for Academic Affairs

[Signature] 12/15/00
College Chair/Dean Date

Approve Disapprove Date 2/5/01

Approve Disapprove Date 07/03/01
4-11-01

Approve Disapprove Date 4-24-01

Approve Disapprove Date 4/29/01

Revised: 11/15/99

[Signature]
Chancellor

approve Disapprove
5/1/01
Date

Course Revision Form

NEW DROPPED MAJOR REVISION INFORMATION ONLY

Department Arts + Sciences Program Area Physical Science Date: 11-29-00

Prefix PHYS No. 231 Title Fundamentals of Physics I Credits 3

Required by B.S. in Education - General Science, B.S. in Biology, B.S. in Engineering Technology

Selective in _____

Elective in _____

General Education Distribution Area

Lecture 100% Lecture/Lab 0 Contact hours lecture 3 Contact hours lab 1 OR 2

Current Catalog Description (include all prerequisites):

A general Physics course covering measurement and experimental error, kinematics, dynamics, work and energy, momentum, and rotational motion. This course is designated to help students in pre-medical, pre-dental, pharmacy, and engineering technology acquire a base of scientific knowledge in order to better understand the world around them. Algebra and trigonometry are used in the mathematical development of the course. This course includes both lecture and laboratory hours. Prerequisite: MATH 112 and MATH 125 or equivalent. (MATH 125 may be taken concurrently with PHYS 231, but MATH 125 is recommended to be taken prior to PHYS 231.)

Proposed Catalog Description (include all prerequisites):

THIS IS A general physics course covering measurement and experimental error, kinematics, dynamics, work and energy, momentum, rotational motion, properties of solids and fluids, thermal physics, properties of ideal gases, kinetic theory, and thermodynamics. Prerequisite: MATH 112 and MATH 125 or equivalent. MATH 125 may be taken concurrently with PHYS 231, but it is highly recommended that it be taken prior to enrollment in PHYS 231. *BROADFIELD SCIENCE MAJORS MUST TAKE THE 2 CR. LAB; TECH MAJORS WILL TAKE THE 1 CR LAB.*

CONCURRENT ENROLLMENT IN PHYS 234 REQUIRED.

The course objective is to introduce the student to the fundamental concepts in the principles of mechanics, thermodynamics, and sound, and for the student to develop a level of competency in these subjects.

New instructional resources needed (including: library materials, special equipment, and facilities). Please note: approval does not indicate support for new faculty or additional resources.

There is no new instruction resources needed for this course.

Course Revision Form

NEW DROPPED MAJOR REVISION INFORMATION ONLY

Department Arts and Sciences Program Area Physical Science Date: 11-29-00

Prefix PHYS No. 234 Title Fundamentals of Physics I - Laboratory Credits 2 1 OR 2

Required by BS in Education - General Science, B.S. in Biology, BS in Engineering Technology

Selective in _____

Elective in _____

General Education Distribution C

Lecture _____ Lecture/Lab 100% Contact hours lecture _____ Contact hours lab 2 OR 4

Current Catalog Description (include all prerequisites):

Proposed Catalog Description (include all prerequisites):

This laboratory course will include experiments related to work and mechanical energy, properties of sound and properties of thermodynamics. ~~Prerequisite:~~ Enrollment in PHYS 231
Broadfield Science Majors ENROLL IN THE 2 CR. LAB; Tech Majors ENROLL IN THE 1 CR. LAB.

Course Outcome Objectives:

The course objective is to introduce the student to experiments that provide hands on applications of the principles of mechanics, thermodynamics, and sound, such that the student understands how these principles are applicable to everyday life.

New instructional resources needed (including: library materials, special equipment, and facilities). Please note: approval does not indicate support for new faculty or additional resources.

There is no new instruction resources needed for this course.

*PHYS 234 = will be lab section of 231
taken for 1 or 2 crs.*