

SS  
AAS

**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 232

SUBCOMMITTEE: teacher ed PROPOSAL #: 00-22

**PROPOSAL:**

This proposal is to change PHYS 232 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] 12/15/00  
College Chair/Dean Date

[Signature]  
Committee Chair

Approve  Disapprove  Date 2/5/01

Thomas M. Weld (curr)  
Committee Chair

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

[Signature]  
Faculty Senate President

Approve  Disapprove  Date 4-24-01

[Signature]  
Provost/Senior Vice Chancellor for Academic Affairs

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 and Sciences Program Area \_\_\_\_\_ Date: \_\_\_\_\_

Prefix PHYS No. 232 Title Fundamentals of Physics II 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 C

Lecture 100% Lecture/Lab \_\_\_\_\_ Contact hours lecture 3 Contact hours lab \_\_\_\_\_

### Current Catalog Description (include all prerequisites):

A general physics course covering properties of solids and fluids, thermal physics, properties of ideal gases, kinetic theory, thermodynamics, periodic motion, properties of waves, properties of light, geometric optics, optical instruments, wave optics. Algebra and trigonometry are used in the mathematical development of the course. This course includes lecture and laboratory hours.

Prerequisite: PHYS 231, as well as MATH 112 and MATH 125.

### Proposed Catalog Description (include all prerequisites):

A general physics course covering properties of periodic motion, properties of waves, properties of light, geometric optics, optical instruments, wave optics and electric charge, electric field, electric potential, capacitance, electric current, resistance, magnetism, electromagnetic induction alternating-current circuits, relativity and atomic structure. Prerequisite: PHYS 231, MATH 112 and MATH 125. ~~COREQUISITE: Phys 235. Broadfield science majors will take the 1cr lab.~~

Course Outcome Objectives: MUST TAKE 2CR lab; TECH MAJORS WILL TAKE THE 1CR LAB.

The course objective is to introduce students to the fundamental physical concepts of light, electricity and atomic structure, and for them 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 are no new instructional resources needed for this course.

## Course Revision Form

NEW  DROPPED  MAJOR REVISION  INFORMATION ONLY

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

Prefix PHYS No. 235 Title Fundamentals of Physics II - Laboratory Credits 2

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

Selective in \_\_\_\_\_

Elective in \_\_\_\_\_

General Education Distribution C area

Lecture \_\_\_\_\_ Lecture/Lab 100% Contact hours lecture \_\_\_\_\_ Contact hours lab 204

Current Catalog Description (include all prerequisites):

Proposed Catalog Description (include all prerequisites):

This laboratory course will include experiments related to the properties of light, electricity and atomic structure. ~~Prerequisite:~~ Enrollment in PHYS 232. Broadfield 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 properties of light, electricity and atomic structure 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.