

**WEBSTER UNIVERSITY
CATALOG CHANGES**

TO: Office of Academic Affairs

FROM: Biology _____ Arts and Sciences _____

DEPARTMENT/PROGRAM

SCHOOL/COLLEGE

Note: This form is used to change specific curricular details on existing courses. The same form may be used to change multiple details for a single course. Please check the area(s) of the proposed change and supply the requested details. The effective date of these changes is usually Summer (the new Catalog date).

Please approve the catalog changes for the following: UG Grad courses:

Course Number: Phys 2030 _____ Title: General Physics _____

- _____ 1. Change of Course TITLE:
 To: University Physics _____
 Effective Date: (Term & Year) Fall 2008 _____
 Reason/Comments: See attached _____

- _____ 2. Change of Course NUMBER:
 From: _____ To: _____
 Effective Date: (Term & Year) _____
 Was previous course coded for General Education (if UG): _____

- _____ 3. Change in CREDIT HOURS:
 Present Credit Hours: 3 _____ Proposed 4 _____
 Effective Date: (Term and Year) _fall 2008 _____
 Reason/Comments: _____

- _____ 4. Add a PREREQUISITE:
 Prerequisite: Calculus _____
 Effective Date: (Term & Year) _____
 Reason/Comments: _____

- _____ 5. Delete a PREREQUISITE:
 Delete: _____
 Effective Date: (Term and Year) _____
 Reason/Comments: _____

Is this course a pre-requisite for another course? If so, which?

Is this a required course for any programs? If so, which?

Approved: *Joseph Borch* _____ Date: *April 16, 2008* _____
Chairperson

Approved: *Santi Lopez* _____ Date: *4/16/08* _____
Dean

Upon the approval of the Dean, this Form is sent to the Office of Academic Affairs for processing:

<u>Undergraduate</u>	<u>Final Distribution</u>
Registrar	<u>Graduate</u> Registrar
Chair, Curr.Cmt.	Chair, Grad.Council
Academic Advising	Chair, Department
Chair, Department	Dean
Dean	Academic Affairs

The addition of a discussion section to the Physics sequence will add 2 credits to our BS in Biology Program. The total number of credits currently is 80. The 2 additional credits will change the total number to 82. The BS in Biology with a Biotech Emphasis will change from 91-93. The Department has had considerable discussions about adding 2 additional credits to the overall numbers the BS degree. The future of our students has prompted us to request the change. A major theme in the National Academy of Sciences 2010 Goals Report. is to integrate Biology, Chemistry and Physics more than ever before. Many more biological scientists with strong backgrounds in physics and chemistry will be needed in the future. Advances within the three disciplines are making quantum leaps necessitating much more collaboration.

Current catalog copy 2007-2009

PHYS 2030 General Physics I (3)

PHYS 2031 General Physics I: Lab (1)

Introduces physics, using a calculus-based approach to derivation of relationships. Content includes vectors, kinematics, dynamics, momentum, energy, SHM, rotational motion, waves, and heat. Laboratory required. PHYS 2030 and PHYS 2031 must be taken concurrently. Prerequisites: MATH 1610 or equivalent, or permission of the instructor.

PHYS 2040 General Physics II (3)

PHYS 2041 General Physics II: Lab (1)

Continues PHYS 2030, covering electricity, magnetism, optics, and nuclear physics. Laboratory required. PHYS 2040 and PHYS 2041 must be taken concurrently. Prerequisite: PHYS 2030.

Catalog Description for the next academic catalog

PHYS 2030: Introduces physics, using a calculus-based approach to derivation of relationships. Content includes vectors, kinematics, dynamics, momentum, energy, SHM, rotational motion, waves, and heat. The course also provides students an opportunity to participate in small-group discussions, problem solving tutorials and conceptual thinking exercises.

Laboratory required. PHYS 2030 and 2031 must be taken concurrently. Prerequisite: Calculus.

PHYS 2040 Continues PHYS 2030, covering electricity, magnetism, optics, and nuclear physics. Also provides students an opportunity to participate in small-group discussions, problem solving tutorials and conceptual thinking exercises.

1. Laboratory required. PHYS 2040 and 2041 must be taken concurrently.
Prerequisite: PHYS 2030.

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Course Number: Phys 2040 Title: General Physics

1. Change of Course TITLE:
To: University Physics
Effective Date: (Term & Year) Fall 2008
Reason/Comments: See attached
2. Change of Course NUMBER:
From: _____ To: _____
Effective Date: (Term & Year) _____
Was previous course coded for General Education (if UG): _____
3. Change in CREDIT HOURS:
Present Credit Hours: 3 Proposed: 4
Effective Date: (Term and Year) _fall 2008
Reason/Comments: _____
4. Add a PREREQUISITE:
Prerequisite: Calculus, Phys 2030
Effective Date: (Term & Year) _____
Reason/Comments: _____
5. Delete a PREREQUISITE:
Delete: _____
Effective Date: (Term and Year) _____
Reason/Comments: _____

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Approved: *Joseph Beck* *April 16, 2008*
Chairperson Date

Approved: *Janice Taylor* *4/18/08*
Dean Date

Upon the approval of the Dean, this Form is sent to the Office of Academic Affairs for processing:

- | | |
|----------------------|---------------------------|
| <u>Undergraduate</u> | <u>Final Distribution</u> |
| Registrar | <u>Graduate</u> |
| Chair, Curr.Cmt. | Registrar |
| Academic Advising | Chair, Grad.Council |
| Chair, Department | Chair, Department |
| Dean | Dean |
| | Academic Affairs |

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Prerequisite: PHYS 2030.