

MAR 1 2009



# COURSE UPDATE FORM

Form must be completed at the College or School level and received by the Provost & Vice President's Office by **March 31** for changes effective the following Spring Semester and **September 30** for changes effective the following Fall or Summer Semesters.

1. Course: CAS / PHYS / 196  
(College/School) / (PREFIX) / (Course #)

2. Course title *at present*: Physics With Calculus II

3. Check all the attributes that **CURRENTLY** apply to this course:

**Essential Skills**

- Elementary Functions
- Freshman Writing
- Personal Well-Being
- Speech
- Statistics

**Modes of Inquiry**

- Aesthetic – Fine Arts
- Aesthetic – Literature
- Historical
- Mathematical
- Philosophical/Religious
- Scientific – Life
- Scientific – Physical
- Social Scientific

**Interconnecting Perspectives**

- Foreign Language
- Intercultural
- JINS

**Other**

- Writing-Enhanced
- General Honors
- MO Statute
- LAS

4. Please check which course characteristics/attributes you request to change and list the action requested in the boxes below. To change a course *number*, complete the New Course Approval Form.

Title <sup>1</sup>	<input type="checkbox"/>	Catalog Description	<input checked="" type="checkbox"/>	Writing-Enhanced <sup>5</sup>	<input type="checkbox"/>
Credit Hours	<input type="checkbox"/>	Prerequisites	<input checked="" type="checkbox"/>	Missouri Statute <sup>6</sup>	<input type="checkbox"/>
Level <sup>2</sup>	<input type="checkbox"/>	Co-requisites	<input type="checkbox"/>	General Honors <sup>7</sup>	<input type="checkbox"/>
LAS Designation <sup>3</sup>	<input type="checkbox"/>	Registration Restrictions <sup>9</sup>	<input type="checkbox"/>	Inactivate This Course <sup>8</sup>	<input type="checkbox"/>
Repeatable Status	<input type="checkbox"/>	Schedule Type	<input type="checkbox"/>	Reactivate This Course	<input type="checkbox"/>
Instructors	<input type="checkbox"/>	LSP Designation <sup>4</sup>	<input type="checkbox"/>	Teach as May Interim class <sup>10</sup>	<input type="checkbox"/>
Make Online	<input type="checkbox"/>	Grading Option	<input type="checkbox"/>	Other: _____	<input type="checkbox"/>
Make Hybrid	<input type="checkbox"/>				

Explanation: We would like one listing for the two courses.

<sup>1</sup>If you intend to change the course title, you must provide a Transcript Title of no more than 30 characters, including punctuation and spaces. If the full title is different from the Transcript Title, please provide that as well. Transcript Titles appear on students' transcripts and the full title will appear in the General/Graduate Catalog.

<sup>2</sup>"Level" is defined as either "undergraduate" or "graduate."

<sup>3</sup>Whether or not the course counts toward the 63-hour Liberal Arts and Sciences graduation requirement.

<sup>4</sup>If you intend to change the LSP Designation, you must attach an explanation of how the course fits the Essential Skill, Mode of Inquiry, or Interconnecting Perspective Outcome Statements. Contact the Director of Interdisciplinary Studies if you desire assistance.

<sup>5</sup>Attach the Proposal Form for Template Writing-Enhanced Courses and appropriate accompanying materials. If the course does NOT fit a template, explain in what way it should be considered writing-enhanced. Contact the Director of Interdisciplinary Studies if you desire assistance.

<sup>6</sup>Explain how the course fits the Missouri Statute Requirement in the space provided above.

<sup>7</sup>Explain how the course fits the General Honors attribute in the space provided above.

<sup>8</sup>"Inactivate" means the course will no longer be offered and will be deleted from the Catalog, but may be offered again sometime in the reasonable future.

<sup>9</sup>“Registration Restrictions” are defined as class level restrictions (freshman, sophomore, etc.) or major or minor restrictions on enrollment.

<sup>10</sup>To teach a regular Spring or Fall semester class as a 3-week May Interim course, a REVISED syllabus showing how the 3-week course will be taught must be attached (include class meeting days/times).

NOTE: If text does not fit in box, please use an attachment.

5. Change FROM (example: “2 credit hours”):

See Attached.

6. TO (example: “3 credit hours”):

See Attached.

7. Please provide an explanation of why the change is desired. If an LSP element is being added to the course, please also respond to the outcomes for that element. Use a separate sheet if necessary.

~~We would like one listing for the two courses.~~ Also a new text has caused a shifting in order of the topics covered in the course sequence and in the emphasis within the courses' content.

8. Year and semester these changes are to commence (see deadlines at top of form): Fall, 2009

9. Please list any changes to major and/or minor requirements caused by the requested changes. Include an updated copy of the major or minor with the new course listed:

None

Approvals:

a) Approved by Department Chair: Jan M. Lindqvist Date: 3/16/2009  n/a

b) Approved by Dean or designated Associate Dean: [Signature] Date: 3-17-09

c) Date Approved by Minor and/or Major Oversight Committee (if applicable):  n/a

Committee: \_\_\_\_\_ Date: \_\_\_\_\_

SEND TO PROVOST & VPAA OFFICE



## **PHYS 196 Physics with Calculus II**

### 5. Change FROM

Students will study the fundamental laws of electromagnetism, plus fluids and optics, mastering the skills and concepts needed for advanced work in science and engineering. Students will also explore some of the history of physics, its technological, philosophical, and aesthetic aspects, and its place in the history of ideas. This course includes a laboratory component.

Prerequisite: PHYS 195 with grade of "C" or higher; Pre- or Co-requisite: MATH 263.

Credits: 5 hours

When Offered: (offered fall, spring)

NOTE: General Honors Course.

NOTE: This course fulfills the Scientific: Physical Science Mode of Inquiry of the Liberal Studies Program.

NOTE: This course counts toward the 63-hour Liberal Arts and Sciences (LAS) graduation requirement.

### 6. TO

## **PHYS 196 Physics with Calculus II**

This is the second of a two-semester introductory physics course sequence, using calculus, for anyone who wishes to learn basic physics at the level needed to pursue a career in physics, engineering, or a related area. Through the Physics 195/196 course sequence you will become familiar with most of the skills and concepts traditionally associated with introductory physics. Physics 196 covers three foundational ideas of physics: 1) Electromagnetism, 2) Quantum Mechanics (including wave mechanics), and 3) Thermodynamics and Statistical Physics. Some of the history of physics, its technological, philosophical, and aesthetic aspects, and its place in the history of ideas will be explored. This course includes a laboratory component and a weekly recitation.

Prerequisite: PHYS 195 with grade of "C" or higher and MATH 198 with grade of "C" or higher; Pre- or Co-requisite: MATH 263.

Credits: 5 hours

When Offered: (offered fall, spring)

NOTE: General Honors Course.

NOTE: This course fulfills the Scientific: Physical Science Mode of Inquiry of the Liberal Studies Program.

NOTE: This course counts toward the 63-hour Liberal Arts and Sciences (LAS) graduation requirement.