

LSC Use Only No:	LSC Action-Date:	UWUCC USE Only No.	UWUCC Action-Date:	Senate Action Date:
		04-62e	Apr 4/5/05	Apr 4/26/05

Curriculum Proposal Cover Sheet - University-Wide Undergraduate Curriculum Committee

Contact Person Kenneth E. Hershman	Email Address hershman@iup.edu
Proposing Department/Unit Physics	Phone 724 357 2370

Check all appropriate lines and complete information as requested. Use a separate cover sheet for each course proposal and for each program proposal.

1. Course Proposals (check all that apply) ☐ New Course ☐ Course Prefix Change ☐ Course Deletion ☐ Course Revision ☒ Course Number and/or Title Change ☐ Catalog Description Change		
PHYS 242 Optics		PHYS 345 Optics
<u>Current</u> Course prefix, number and full title		<u>Proposed</u> course prefix, number and full title, if changing
2. Additional Course Designations: check if appropriate ☐ This course is also proposed as a Liberal Studies Course. ☐ Other: (e.g., Women's Studies, Pan-African) ☐ This course is also proposed as an Honors College Course.		
3. Program Proposals ☐ New Degree Program ☐ Program Title Change ☐ Other ☐ New Minor Program ☐ New Track ☐ Catalog Description Change ☐ Program Revision		
<u>Current</u> program name		<u>Proposed</u> program name, if changing
4. Approvals		
Department Curriculum Committee Chair(s)	Kenneth E. Hershman	12/10/04
Department Chair(s)	Kenneth E. Hershman	12/10/04
College Curriculum Committee Chair	[Signature]	02/24/05
College Dean	[Signature]	3/02/05
Director of Liberal Studies *		
Director of Honors College *		
Provost *		
Additional signatures as appropriate: (include title)		
UWUCC Co-Chairs	Gail Schuist	4-5-05

* where applicable

MAR - 3 2005

LIBERAL STUDIES

Description of Curriculum Change:**Catalog Description:**

PHYS 345 Optics

3 class hours
0 lab hours
3 semester hours
(3c-0l-3sh)

Prerequisites: MATH 122, 124, or 128; PHYS 112 or 132

Geometrical optics and physical optics; including interference, diffraction, and polarization.
Quantum Optics is introduced.

Listing of the proposed change:

The old title and number

PHYS 242 Optics

The new title and number

PHYS 345 Optics

Justification/rationale for the change:

Presently offered in the fourth semester in our recommended sequence sheets, a good portion of our physics majors do not finish the prerequisites in a timely fashion and in practice take the course as juniors.

Modern Physics (normally taught in the fifth semester) introduces the basic ideas of quantum optics and although not a required prerequisite will more aptly serve as appropriate preparation for the quantum aspects of Optics if offered in the junior year.

Presently sophomores take other physics courses which serve to provide a better skill base to meet the objectives of this course particularly in mathematics.

Most universities offer optics as a junior level course. University of Pittsburgh offers their optics course "Wave Motion and Optics" as PHYS 0368, a junior level designation.

Ken Hershman

From: "Dr. Ruiess Van Fossen Ramsey" <rvbravo@iup.edu>
To: "Ken Hershman" <hershman@iup.edu>
Sent: Wednesday, December 01, 2004 9:41 AM
Subject: Re: Minor curriculum change proposal

Ken,

The Chemistry Department supports the change of PHYS 242 to PHYS 345 so that it will clearly be a junior level course.

Ruiess

----- Original Message -----

From: Ken Hershman

To: gsstoudt@iup.edu ; Andrew C. Browe ; Ruiess Ramsey ; Dr. Carl Luciano ; Jim Wolfe

Cc: VJ Wijekumar ; Aleksandra Batko Kaniasty ; Ken Hershman

Sent: Wednesday, December 01, 2004 9:20 AM

Subject: Minor curriculum change proposal

Gary, Andy, Ruiess, Carl, Jim,

The Physics Department is proposing to renumber PHYS 242 Optics as a junior level course. The new course designation will be PHYS 345 Optics. No other changes in the course are being proposed. We can not think of any way that this change will impact any of your majors and, if you would, we invite you to support this minor revision by return email.

Thanks,

Ken Hershman

Undergraduate Curriculum Committee

Physics Department

Ken Hershman

From: "Gary Stoudt" <Gary.Stoudt@iup.edu>
To: "Ken Hershman" <hershman@iup.edu>
Sent: Wednesday, December 01, 2004 9:46 AM
Subject: RE: Minor curriculum change proposal

The Mathematics Department supports the title and number change for the PHYS 242 Optics course.

Gary Stoudt, Chairperson
Mathematics Department

-----Original Message-----

From: Ken Hershman [mailto:hershman@iup.edu]
Sent: Wednesday, December 01, 2004 9:21 AM
To: gsstoudt@iup.edu; Andrew C. Browe; Ruiess Ramsey; Dr. Carl Luciano; Jim Wolfe
Cc: VJ Wijekumar; Aleksandra Batko Kaniasty; Ken Hershman
Subject: Minor curriculum change proposal

Gary, Andy, Ruiess, Carl, Jim,

The Physics Department is proposing to renumber PHYS 242 Optics as a junior level course. The new course designation will be PHYS 345 Optics. No other changes in the course are being proposed. We can not think of any way that this change will impact any of your majors and, if you would, we invite you to support this minor revision by return email.

Thanks,
Ken Hershman
Undergraduate Curriculum Committee
Physics Department

Ken Hershman

From: "Jim Wolfe" <jlwolfe@iup.edu>
To: "Ken Hershman" <hershman@iup.edu>
Sent: Wednesday, December 01, 2004 10:53 AM
Subject: Re: Minor curriculum change proposal

Ken,

The Computer Science Department is happy to support the course number change of PHYS 242 Optics to become PHYS 345. We do not see that this number change will have any impact on Computer Science majors.

Jim Wolfe
Chairperson, Computer Science

4

12.01.2004

Ken Hershman

From: "Andrew C. Browe" <acbrowe@iup.edu>
To: "Ken Hershman" <hershman@iup.edu>
Sent: Wednesday, December 01, 2004 9:39 AM
Subject: Re: Minor curriculum change proposal

----- Original Message -----

From: Ken Hershman
To: gsstoudt@iup.edu ; [Andrew C. Browe](#) ; [Ruiess Ramsey](#) ; [Dr. Carl Luciano](#) ; [Jim Wolfe](#)
Cc: [VJ Wijekumar](#) ; [Aleksandra Batko Kaniasty](#) ; [Ken Hershman](#)
Sent: Wednesday, December 01, 2004 9:20 AM
Subject: Minor curriculum change proposal

Gary, Andy, Ruiess, Carl, Jim,

The Physics Department is proposing to renumber PHYS 242 Optics as a junior level course. The new course designation will be PHYS 345 Optics. No other changes in the course are being proposed. We can not think of any way that this change will impact any of your majors and, if you would, we invite you to support this minor revision by return email.

Thanks,
Ken Hershman
Undergraduate Curriculum Committee
Physics Department

Ken:

I support the change of Optics PHYS 242 to PHYS 345. The junior designation for this course is compatible with the junior and senior pre-optometry majors who use this course as a majors elective in the Natural Science program.

Andrew Browe
Natural Science Coordinator

5

12.01.2004