

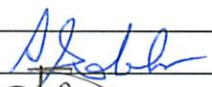

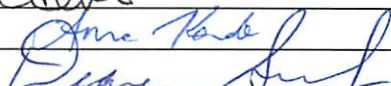


Curriculum Proposal Cover Sheet

<i>LSC Use Only</i> Proposal No:	<i>UWUCC Use Only</i> Proposal No: 12-119d	
LSC Action-Date:	UWUCC Action-Date: App 4/9/13	Senate Action Date: App 4/30/13

Curriculum Proposal Cover Sheet - University-Wide Undergraduate Curriculum Committee

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Proposing Department/Unit Physics/	Phone 724-357-4593

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

1. Course Proposals (check all that apply) <input type="checkbox"/> New Course <input type="checkbox"/> Course Prefix Change <input type="checkbox"/> Course Deletion <input type="checkbox"/> Course Revision <input type="checkbox"/> Course Number and/or Title Change <input checked="" type="checkbox"/> Catalog Description Change <i>Current course prefix, number and full title</i> EOPT 220 Introduction to Lasers <i>Proposed course prefix, number and full title, if changing:</i>		
2. Liberal Studies Course Designations, as appropriate <input type="checkbox"/> This course is also proposed as a Liberal Studies Course (please mark the appropriate categories below) <input type="checkbox"/> Learning Skills <input type="checkbox"/> Knowledge Area <input type="checkbox"/> Global and Multicultural Awareness <input type="checkbox"/> Writing Intensive (include W cover sheet) <input type="checkbox"/> Liberal Studies Elective (please mark the designation(s) that applies – must meet at least one) <input type="checkbox"/> Global Citizenship <input type="checkbox"/> Information Literacy <input type="checkbox"/> Oral Communication <input type="checkbox"/> Quantitative Reasoning <input type="checkbox"/> Scientific Literacy <input type="checkbox"/> Technological Literacy		
3. Other Designations, as appropriate <input type="checkbox"/> Honors College Course <input type="checkbox"/> Other: (e.g. Women's Studies, Pan African)		
4. Program Proposals <input type="checkbox"/> Catalog Description Change <input type="checkbox"/> Program Revision <input type="checkbox"/> Program Title Change <input type="checkbox"/> New Track <input type="checkbox"/> New Degree Program <input type="checkbox"/> New Minor Program <input type="checkbox"/> Liberal Studies Requirement Changes <input type="checkbox"/> Other <i>Current program name:</i> _____ <i>Proposed program name, if changing:</i> _____		
5. Approvals	Signature	Date
Department Curriculum Committee Chair(s)		2/11/13
Department Chairperson(s)		2/11/13
College Curriculum Committee Chair		4/2/13
College Dean		4/3/13
Director of Liberal Studies (as needed)		
Director of Honors College (as needed)		
Provost (as needed)		
Additional signature (with title) as appropriate		
UWUCC Co-Chairs		4/9/13

Received

APR 4 2013

Liberal Studies

Description of Pre/Co-Requisite Change when course content is not altered

Part I - Curriculum Proposal Cover Sheet (above)

Part II - Description of Curriculum Change

1. New catalog description

EOPT 220 Introduction to Lasers

2c-3l-3cr

Corequisite or Prerequisite: PHYS 112 or 132

Different types of incoherent light sources are discussed and investigated. The concepts of laser safety are introduced. The elements and operation of an optical power meter are covered. The energy-level diagram and the energy-transfer processes in the active medium are discussed. The spatial and temporal properties of lasers are investigated along with other characteristics such as modes of oscillation. Some applications of lasers are investigated. Includes a lab component.

2. Listing of proposed change

- The prerequisite of “EOPT 120 ” will be removed.
- The prerequisites of “PHYS 112 or PHYS 132” will be added.

Old catalog description

EOPT 220 Introduction to Lasers

2c-3l-3cr

Prerequisite: EOPT 120

Different types of incoherent light sources are discussed and investigated. The concepts of laser safety are introduced. The elements and operation of an optical power meter are covered. The energy-level diagram and the energy-transfer processes in the active medium are discussed. The spatial and temporal properties of lasers are investigated along with other characteristics such as modes of oscillation. Some applications of lasers are investigated. Includes a lab component.

3. Justification for change

The electro-optics program is moving from the Northpointe campus to the Indiana Campus. As a result, some courses offerings will be changed. PHYS 112 and PHYS 132 cover the same necessary material as EOPT 120 and EOPT 125, so they will serve as a pre-requisite. Content in EOPT 125 laboratory class is necessary for electro-optics students and will be covered in a new course, EOPT 130, which will be subsequently added to the program. This content is not necessary for EOPT 220. EOPT 120 and 125 will eventually be deleted from the catalog.

Part III – Letter of Support is not necessary, there is no impact on any other department.