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LSC Use Only No:	LSC Action-Date:	UWUCC USE Only No. 02-1250	UWUCC Action-Date: APR 25 2003	Senate Action Date: APR 29 2003
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**Curriculum Proposal Cover Sheet - University-Wide Undergraduate Curriculum Committee**

Contact Person Dr. Andrew Browe	Email Address acbrowe@iup.edu
Proposing Department/Unit Natural Science/ Pre-Optometry	Phone 724-357-2191

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

<i>Current Course prefix, number and full title</i>	<i>Proposed course prefix, number and full title, if changing</i>
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**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.

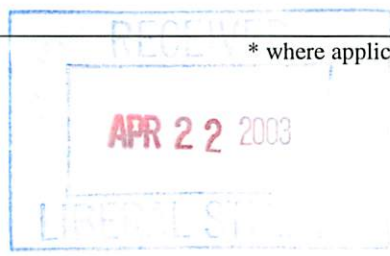
**3. Program Proposals**

New Degree Program                       Program Title Change                       Program Revision  
 New Minor Program                       New Track

<i>Current program name</i>	<i>Proposed program name, if changing</i>
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4. Approvals		Date
Department Curriculum Committee Chair(s)	<i>Andrew C. Browe</i>	<i>4/21/03</i>
Department Chair(s)	<i>Andrew C. Browe</i>	<i>4/21/03</i>
College Curriculum Committee Chair	<i>[Signature]</i>	<i>04/21/03</i>
College Dean	<i>[Signature]</i>	
Director of Liberal Studies *		
Director of Honors College *		
Provost *		
Additional signatures as appropriate: (include title)		
UWUCC Co-Chairs	<i>Gail Schuchert</i>	<i>4/25/03</i>

\* where applicable



**PROPOSED CHANGES IN BACHELOR OF SCIENCE IN NATURAL SCIENCE/PRE-  
OPTOMETRY TRACK CURRICULUM COMPARING OLD AND NEW DEGREE REQUIREMENTS**

**Current Program**

**Bachelor of Science –  
Natural Science/Pre-Optometry Track (\*)**

**Liberal Studies:** As outlined in the Liberal Studies section with the following specifications **52-55sh**  
**Mathematics:** MATH 121  
**Natural Science:** CHEM 111-112  
**Social Sciences:** ECON 101, PSYC 101, Non-Western course  
**Liberal Studies Electives:** COSC 101, MATH 216 or 217, no course with SCI prefix  
**Synthesis:** Not required for three-year students who transfer to a professional school with an Articulation agreement  
**Writing Intensive:** one course required for three-year students who transfer to a professional school with an articulation agreement

**Major 38sh**

**Required Courses**  
 BIOL 111 Principles of Biology I 4sh  
 BIOL 112 Principles of Biology II 4sh  
 BIOL 150 Human Anatomy 3sh  
 BIOL 151 Human Physiology 4sh  
 BIOL 241 General Microbiology 3sh  
  
 CHEM 231 Organic Chemistry I 4sh  
 CHEM 232 Organic Chemistry II 4sh  
 CHEM 351 Biochemistry 4sh  
 PHYS 111 General Physics I 3sh  
 PHYS 121 General Physics I Lab 1sh  
 PHYS 112 General Physics II 3sh  
 PHYS 122 General Physics II Lab 1sh

**Other Requirements:**  
 Foreign Language Intermediate Level (1)  
 MATH 122 Calculus II 4sh (2)  
**Free Electives(1):**  
 Electives to meet a minimum of 90 IUP sh  
 3sh (3)

**Total Degree Requirements: 124sh**

**Proposed Program**

**Bachelor of Science –  
Natural Science/Pre-Optometry Track(\*)**

**Liberal Studies:** As outlined in Liberal Studies section with following specifications. **49sh**  
**Mathematics:** MATH 121  
**Natural Sciences:** CHEM 111-112  
**Social Sciences:** PSYC 101, ECON 101  
  
**Liberal Studies Electives:** COSC 101, No courses with SCI prefix.  
**Synthesis:** Not required for three-year students who transfer to a professional school with an articulation agreement  
**Writing Intensive:** Majors writing intensive course only required for three-year students who transfer to a professional school with an articulation agreement

**Major 41sh**

**Required Courses**  
 BIOL 111 Principles of Biology I 4sh  
 BIOL 112 Principles of Biology II 4sh  
 BIOL 150 Human Anatomy 3sh  
 BIOL 151 Human Physiology 4sh  
 BIOL 241 General Microbiology 3sh  
 BIOL 263 Genetics 3sh  
 CHEM 231 Organic Chemistry I 4sh  
 CHEM 232 Organic Chemistry II or  
 CHEM 351 Biochemistry 4sh  
 PHYS 111 General Physics I 3sh  
 PHYS 121 General Physics I Lab 1sh  
 PHYS 112 General Physics II 3sh  
 PHYS 122 General Physics II Lab 1sh  
 MATH 216 Probability & Statistics 4sh

**Other Requirements:** **0-6sh**  
 Foreign Language Intermediate Level 0-6sh

**Free Electives(1): 0-30sh**  
 Electives to meet minimum of 90 IUP sh and a minimum of 24 sh in Humanities and Social Sciences for admission to affiliated optometry school after 3 years at IUP  
 Maximum credits for work at affiliated optometry school **30sh**

**Total Degree Requirements: 120sh**

(\*) Accelerated three-year Pennsylvania College of Optometry (PCO) program: students are admitted to the PCO accelerated program only as incoming freshman. A maximum of 34sh of work may be transferred after the first year at PCO. Upon completion of the first year of studies at PCO, a transcript from PCO is to be sent by the student to the Dean of the College of Natural Sciences and Mathematics with a note requesting application materials for graduation

(1) 3 or 4 sh of Intermediate-level Foreign Language may be included in Liberal Studies electives

(2) Required for many schools of optometry: recommended for PCO

(3) Additional electives if needed to meet the minimum of 90 IUP sh should be selected from the following suggestions: BIOL 112 and 263

(\*) Accelerated three-year Pennsylvania College of Optometry (PCO) program: A maximum of 30sh of work may be transferred after the first year at PCO. Upon completion of the first year of studies at PCO, a transcript from PCO is to be sent by the student to the Dean of the College of Natural Sciences and Mathematics with a note requesting application materials for graduation

(1) Student is to work with his/her advisor to select appropriate free electives for professional school. Neurobiology and Optics are highly recommended courses.