

LS → 10/200/03

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		03-24	Appr 2/10/04	Appr 3/2/04

Curriculum Proposal Cover Sheet - University-Wide Undergraduate Curriculum Committee

Contact Person Thomas W. Simmons	Email Address tsimmons@iup.edu
Proposing Department/Unit Department of Biology	Phone (724) 357-4898

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

Current Course prefix, number and full title Proposed 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

Current program name Environmental Health Program Environmental Health Science Program
Proposed program name, if changing

4. Approvals		Date
Department Curriculum Committee Chair(s)	<i>Arthur C. Huda</i>	11-13-03
	<i>Arthur</i>	10/15/03
Department Chair(s)		
College Curriculum Committee Chair	<i>[Signature]</i>	10/20/03
College Dean	<i>John D. [Signature]</i>	10/20/03
Director of Liberal Studies *		
Director of Honors College *		
Provost *		
Additional signatures as appropriate: (include title)		
UWUCC Co-Chairs	<i>Gail Sedquist</i>	2-10-04

* where applicable



I. Catalog description

Minor - Environmental Health Science

The minor in Environmental Health Science provides a survey of the technical areas in environmental health and protection, with an introduction to epidemiology and toxicology which are fundamental to the field. The minor consists of 18 credits in BIOL and ENVH courses. Three additional non-BIOL and non-ENVH courses in the Natural Sciences and Mathematics are needed as prerequisites. This minor is particularly well-suited for students interested in human and ecological health issues who are majoring in Biochemistry, Biology, Chemistry, Geology, Natural Science or Safety Science.

Part II. Description of Curriculum Change

1. Catalog Description

Minor – Environmental Health Science

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Required Courses:

BIOL 103-104	General Biology I and II (1) or	
BIOL 111-112	Principles of Biology I and II	8sh
ENVH 221	Environmental Health and Protection I (2)	3sh
ENVH 222	Environmental Health and Protection II (2)	3sh
BIOL/ENVH 323	Introduction to Toxicology and Risk Assessment (2)	3sh
BIOL/ENVH 490	Fundamentals of Environmental Epidemiology (3)	3sh

- (1) BIOL 151 or BIOL 155 can be substituted for BIOL 104.
- (2) Prerequisites include CHEM 102 or 112.
- (3) Prerequisites include MATH 216 or 217.

2. Rationale/Justification

The Environmental Health Science Minor is designed for students who are interested in acquiring knowledge and skills related to public health and the environment, but have chosen to major in another field. This minor will best complement majors in Biology, Chemistry, Geography/Environmental Geographer Track, Geology/Environmental Track, Regional Planning/Environmental Planner Track, and Safety Sciences; but will be open to all students.

The minor includes: BIOL 103 and 104 or BIOL 111 and 112; ENVH 221 and 222; BIOL/ENVH 323 and 490 for a total of 20 credits. BIOL 103 and 104 are the non-major biology survey courses. BIOL 151 or BIOL 155 can be substituted for BIOL 104, because they all contain a significant human physiology component important for environmental health. This will be advantageous for Safety Sciences majors who take BIOL 155 as part of their degree requirements. BIOL 111 and 112 are survey courses for biology majors. ENVH 221 and 222 are survey courses for environmental health majors. BIOL/ENVH 323 and 490 are required courses for environmental health majors, which cover two fundamental areas of the environmental health field. This combination of courses provides a foundation in biology, an introduction to all areas of environmental health, and in-depth knowledge in the key areas of epidemiology and toxicology. Although the Environmental Health Science and Protection Accreditation Council (EHAC) does not offer guidance for minors in environmental health, it does require that majors be introduced to most areas of environmental health, and take separate courses in epidemiology and toxicology. The Environmental Health Program is in the process of applying for accreditation of its major degree by the EHAC.

Students who choose this minor will also have to take CHEM 101 and 102, or CHEM 111 and 112, as well as MATH 216 or 217; to meet the prerequisites for ENVH 221 and 222, and BIOL/ENVH 323 and 490. For many majors these ancillary science and math courses can be used to partially fulfill Liberal Studies Requirements for Mathematics, Natural Science, and Electives.

Part III. Implementation. Provide answers to the following questions:

1. Are faculty resources adequate?

Faculty resources are adequate because the courses for the environmental health minor are routinely

offered for biology and/or environmental health majors.

2. Are other resources adequate?

Equipment and supplies are marginally adequate. Space is adequate.

3. Expected changes in enrollment.

A significant increase in enrollment is expected in ENVH 221 and 222, and BIOL/ENVH 323 and 490; and seating is presently available to handle this anticipated increase without additional sections being offered. An insignificant increase in enrollment in BIOL 103, 104, 111 and 112, CHEM 101, 102, 111 and 112, and MATH 216 and 217 is expected.

4. Intended implementation date (semester and year).

The intended implementation date is fall 2004.

Part IV. Periodic Assessment

The same assessment tool and schedule that will be used to evaluate the major degree program in environmental health as a condition of accreditation by the EHAC will be used to evaluate the minor degree program. The Environmental Health Science Program will be reviewed annually. Information on current student enrollment, number of graduates during the year, and significant curriculum, program, or budget changes and all faculty changes will be reported to the EHAC as a requirement of accreditation. In addition, at the time of re-accreditation at least every five years, all program graduates and employers will be surveyed via the EHAC's outcome assessment tool. All graduates since the last assessment will be in the pool of those surveyed. The completed tools will be gathered and forwarded to the Executive Director of EHAC six months prior to the annual meeting of the EHAC. The EHAC will supply a summary of the information gathered to all accredited programs on an annual basis.

Part V. Course Proposals

No new courses are being proposed.

Part VI. Letters of Support or Acknowledgement

Not applicable.