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Curriculum Proposal Cover Sheet - University-Wide Undergraduate Curriculum Committee

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Proposing Department/Unit Safety Sciences	Phone 7-3019

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) <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		
SAFE 347, SAFE 442, SAFE 461, and SAFE 462		
<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 <input type="checkbox"/> This course is also proposed as a Liberal Studies Course. <input type="checkbox"/> Other: (e.g., Women's Studies, Pan-African) <input type="checkbox"/> This course is also proposed as an Honors College Course.		
3. Program Proposals <input type="checkbox"/> New Degree Program <input type="checkbox"/> Program Title Change <input type="checkbox"/> Other <input type="checkbox"/> New Minor Program <input type="checkbox"/> New Track <input type="checkbox"/> Catalog Description Change <input type="checkbox"/> Program Revision		
<u>Current</u> program name		<u>Proposed</u> program name, if changing
4. Approvals		
Department Curriculum Committee Chair(s)	Jan K. Wachter <i>Jan K Wachter</i>	Date 3/26/2009
Department Chair(s)	Lon Ferguson <i>Lon Ferguson</i>	3/26/09
College Curriculum Committee Chair	<i>J. J. [Signature]</i>	3-27-09
College Dean	<i>Parthen [Signature]</i>	4-6-09
Director of Liberal Studies *		
Director of Honors College *		
Provost *		
Additional signatures as appropriate: (include title)		
UWUCC Co-Chairs	Gail Sedrust <i>Gail Sedrust</i>	4/14/09

APR 10 2009

Liberal Studies

Course Prerequisite Change

Part II. Description of the Curriculum Change

1. New Course Descriptions

SAFE 347 Ergonomics 2 class hours
3 lab hours
3 credit hours

Prerequisites: BIOL 155 2c-3l-3cr

Explores the principles which control human performance and its effect upon the safety and reliability of systems. Engineering anthropometrics, human perception, biomechanics of motion and work posture, work physiology, and human performance measurement are taught in the context of their application in workplace design. Instructs in methodologies for analysis of tasks and human performance requirements. Important human limitations and ergonomic hazard evaluations, such as lifting and repetitive motion tasks, are studied in laboratory sessions.

SAFE 442 Current Issues in Safety 3 class hours
0 lab hours
3 credit hours

Prerequisites: SAFE 211 or permission 3c-0l-3cr

Examines the emerging issues currently faced by the environmental, safety, and health (ESH) practitioner that extend beyond the conventional areas of academic preparation. In addition, explores certification, ethics, compliance issues, quality management, worldwide concerns, and other common issues. Each student researches and presents information on specific item of current relevance in the safety profession.

SAFE 461 Air Pollution 3 class hours
0 lab hours
3 credit hours

Prerequisite: SAFE 410 or consent 3c-0l-3cr

Focuses on major aspects of the air pollution problem. Includes sources of pollution, evaluation and engineering of pollutants, government regulations, atmospheric chemistry and dispersion, and human and nonhuman effects. Particular emphasis on information that is practical for the safety management, industrial health, or environmental health professional.

SAFE 462 Radiological Health

3 class hours
0 lab hours
3 credit hours
3c-01-3cr

A study of problems associated with ionizing radiation in human environment. Emphasizes biological effects, radiation measurement, dose computational techniques, exposure control, and local and federal regulations. Study and use of various radiological instruments included.

2. Old Course Descriptions**SAFE 347 Ergonomics**

2 class hours
3 lab hours
3 credit hours
2c-31-3cr

Prerequisites: BIOL 155, SAFE 301

Explores the principles which control human performance and its effect upon the safety and reliability of systems. Engineering anthropometrics, human perception, biomechanics of motion and work posture, work physiology, and human performance measurement are taught in the context of their application in workplace design. Instructs in methodologies for analysis of tasks and human performance requirements. Important human limitations and ergonomic hazard evaluations, such as lifting and repetitive motion tasks, are studied in laboratory sessions.

SAFE 442 Current Issues in Safety

3 class hours
0 lab hours
3 credit hours
3c-01-3cr

Prerequisites: SAFE 211 and 301 or permission

Examines the emerging issues currently faced by the environmental, safety, and health (ESH) practitioner that extend beyond the conventional areas of academic preparation. In addition, explores certification, ethics, compliance issues, quality management, worldwide concerns, and other common issues. Each student researches and presents information on specific item of current relevance in the safety profession.

SAFE 401 Air Pollution

3 class hours
0 lab hours
3 credit hours
3c-01-3cr

Prerequisites: SAFE 301 or consent

Focuses on major aspects of the air pollution problem. Includes sources of pollution, evaluation and engineering of pollutants, government regulations, atmospheric chemistry and dispersion, and human and nonhuman effects. Particular emphasis on information that is practical for the safety management, industrial health, or environmental health professional.

SAFE 462 Radiological Health

3 class hours
0 lab hours
3 credit hours
3c-01-3cr

Prerequisites: SAFE 301 or consent

A study of problems associated with ionizing radiation in human environment. Emphasizes biological effects, radiation measurement, dose computational techniques, exposure control, and local and federal regulations. Study and use of various radiological instruments included.

3. Justification/rationale for change

SAFE 301 Health Hazard Recognition is being deleted from the Safety Sciences B.S. Curriculum. The course proposal was approved by the IUP UWUCC in Fall 2008.

The Safety Sciences Department was informed by the Chair of the UWUCC that it must revise all course descriptions that identify SAFE 301 as a prerequisite. Currently this includes four SAFE courses:

- SAFE 347 Ergonomics
- SAFE 442 Current Issues in Safety
- SAFE 461 Air Pollution
- SAFE 462 Radiological Health

The new catalogue course descriptions reflect the following:

- Removal of SAFE 301 as a prerequisite for the following courses: SAFE 347, SAFE 442, SAFE 461, and SAFE 462.
- Addition of SAFE 410 Environmental Safety and Health Regulations as a prerequisite for SAFE 461 Air Pollution since a background in regulatory analysis would aid in the information covered in SAFE 461. Note: in the Undergraduate Catalog SAFE 461 was mistyped as SAFE 401 and needs to be corrected.

Part III. Letters of Support or Acknowledgement

These course changes will not affect other departments, therefore letters of support from other departments were not obtained.