

09-39f - UWCC App-12/8/09 Senate App-1/26/10

Curriculum Proposal Cover Sheet - University-Wide Undergraduate Curriculum Committee

Contact Person Dr. Jan Wachter	Email Address Jan.wachter@iup.edu
Proposing Department/Unit Safety Sciences Department	Phone 7-3275

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: Ergonomics	
<u>Current Course prefix, number and full title</u>	<u>Proposed course prefix, number and full title, if changing</u>
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 program name</u>	<u>Proposed program name, if changing</u>
4. Approvals	
Department Curriculum Committee Chair(s)	Date
<i>Jan Wachter</i>	Nov 2, 2009
Department Chair(s)	
<i>La Teresa</i>	11/2/09
College Curriculum Committee Chair	
<i>Jasper Milton</i>	11-4-09
College Dean	
Director of Liberal Studies *	
Director of Honors College *	
Provost *	
Additional signatures as appropriate: (include title)	
<i>Crail S. Sechrist</i>	12/8/09

Received

NOV 09 2009

Liberal Studies

Part II. Description of Curriculum Change

1. **A complete catalog description including the course name, class and lab hour designation, number of credits, the prerequisites, and the new course description**

New catalog description:

SAFE 347 Ergonomics

2c-3l-3cr

Prerequisite: SAFE 211 or instructor permission

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.

2. **A listing of the proposed change including the complete old catalog description**

Proposed change: Change the prerequisite for the SAFE 347 course from BIOL 155: Human Physiology & Anatomy to SAFE 211: Principles of Safety II.

Old catalog description:

SAFE 347 Ergonomics

2c-3l-3cr

Prerequisite: BIOL 155

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.

3. **Justification/rationale for the change**

On September 20-22, 2009, the Accreditation Board of Engineering and Technology's (ABET) Applied Science Accreditation Commission (ASAC) visited IUP's Department of Safety Sciences to conduct its accreditation review of IUP's undergraduate safety sciences program. A weakness cited by this accreditation team in its evaluation report was that the safety sciences program must have and enforce

procedures to assure that all students are meeting all program requirements since transcript evaluations indicated that some students have taken courses without fulfilling prerequisites or have taken prerequisites concurrently.

To deal with this weakness, the Safety Sciences' Department Curriculum Committee – in consultation with class instructors – was tasked by the Department Chairperson to critically examine the appropriateness of all SAFE current course prerequisites, especially those identified earlier as having a history of overrides. The Curriculum Committee has conducted its review of safety science courses and is recommending that the list of prerequisites be revised to include only those which are truly critical and appropriate for the successful completion of the course. As a part of this review, it is being recommended by the Safety Sciences Department's Curriculum Committee that SAFE 211:Principles of Safety II becomes the prerequisite for the SAFE 347: Ergonomics course, since SAFE 211 is deemed to be sufficient for the successful completion of the SAFE 347 course.

Part III. Letters of Support or Acknowledgement

This section is not applicable.