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UWUCC Use Only Proposal No:/2-68 &.

UWUCC Action-Date: App-2/19/13 Senate Action Date: App-3/26/13

Curriculum Proposal Cover Sheet - University-Wide Undergraduate Curriculum Committee

| Dr. Jan K. Wachter | | Email Address | | |
|---|---|-------------------------------------|-------------------------|--|
| Proposing Department/Unit | | <u>Jan.Wachter@iup.edu</u> Phone | | |
| Safety Sciences | | 7-3275 | | |
| Check all appropriate lines and complete all informa | tion. Use a separate cover sheet for ea | ach course proposal and/or progra | m proposal. | |
| Course Proposals (check all that apply) | | | | |
| New Course | Course Prefix Change | Course Deletion | | |
| Course Revision | Course Number and/or Title Change | X Catalog Description | n Change (prerequisite) | |
| Current course prefix, number and full title: SAFE | 347 Ergonomics | | | |
| Proposed course prefix, number and full title, if cha | | | | |
| 2. Liberal Studies Course Designations, as appropriate | | | | |
| This course is also proposed as a Liberal S | tudies Course (please mark the approp | oriate categories below) | | |
| Learning Skills Knowledge Area Global and Multicultural Awareness Writing Intensive (include W cover sheet) | | | | |
| Liberal Studies Elective (please mark the de | esignation(s) that applies – must meet | at least one) | Received | |
| Global Citizenship _ | Information Literacy | Oral Communication | NOV 15 2012 | |
| Quantitative Reasoning | Scientific Literacy | | iberal Studies | |
| 3. Other Designations, as appropriate | | | Studies | |
| Honors College Course Oth | ner: (e.g. Women's Studies, Pan African | 1) | | |
| 4. Program Proposals | | | | |
| Catalog Description Change Program Revision Program Title Change New Track | | | | |
| New Degree Program New Minor Program Liberal Studies Requirement Changes Other | | | | |
| Current program name: | | | | |
| <u>Proposed</u> program name, if changing: | | | | |
| 5. Approvals | Signature |) | Date | |
| Department Curriculum Committee Chair(s) | Dr. Jan K. Wachter | Wachter | 11/05/201 | |
| Department Chairperson(s) | Dr. Lon Ferguson | FINA | 11/3/12 | |
| College Curriculum Committee Chair | Dr. Jan K. Wachter | Sepel | 11/18/12 | |
| College Dean | Dr. Mary Swinker | 5,,0 | 11/14/15 | |
| Director of Liberal Studies (as needed) | 700007 | | 17/7/16 | |
| Director of Honors College (as needed) | | | | |
| Provost (as needed) | | | | |
| Additional signatures (with title) as appropriate: | | | | |
| UWUCC Co-Chairs | Gail Sechric | at | 2/19/13 | |

Part II. Description of Curriculum Change

1. Catalog Description

New catalog description:

SAFE 347 Ergonomics 2c-3l-3cr

Prerequisite or Corequisite: BIOL 104 or BIOL 155 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. Proposed Change

The corequisite / prerequisite for the course will include taking either BIOL 104 or BIOL 155, instead of SAFE 211.

Old 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.

3. Justification for Change

SAFE 211 – Principles of Industrial Safety II – had been the general prerequisite for this course. However, in reviewing again the content material in the ergonomics course, it is probably more appropriate for students to have some general knowledge in biology (that includes anatomy and physiology topics) as a corequisite or prerequisite for SAFE 347 since biomechanics, anthropometrics, and work physiology are key principles covered in this course. BIOL 104 or BIOL 155 can fulfill this purpose.