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Curriculum Proposal Cover			41	9.1
Contact Person			Email Address	
r. Lon Ferguson			Ferguson@iup.edu	
Proposing Department/Unit			Phone	
afety Sciences Department Check all appropriate lines and co			7-3019	
. Course Proposals (check all thaNew CourseCourse Revision	at apply)Course Prefix ChCourse Number a		Course Del	
Current Course prefix, number and full	title	Proposed course p	refix, number and full title,	if changing
2. Additional Course Designations This course is also propose This course is also propose Course.	sed as a Liberal Studies C	Course.	Other: (e.g., Womer Pan-African)	n's Studies,
Program Proposals	Catalog Des	scription Change	<u>XXX_Program</u>	n Revision
. Program ProposalsNew Degree Program	Catalog Des			n Revision
. Program Proposals New Degree Program New Minor Program		tle Change	<u>XXX_Program</u> Other	n Revision

Proposed program name, if changing

Date

FEB - 1 2005

Current program name

Department Curriculum Committee
Chair(s)

College Curriculum Committee Chair

Additional signatures as appropriate:

Director of Liberal Studies *

Director of Honors College *

Department Chair(s)

College Dean

Provost *

(include title)

* where applicable

UWUCC Co-Chairs

4. Approvals

FEB | 5 2005

PROGRAM REVISION FOR THE BACHELOR OF SCIENCE DEGREE IN SAFETY SCIENCES

Spring 2005

Part II. Description of Curriculum Change

1. Catalog Description

There will be two minor change to the catalog description for the program. These changes are in **"bold"**.

The department offers a minor and a Bachelor of Science degree in Safety Sciences with a focus on occupational safety and health. The program in Safety Sciences prepares the student for professional, administrative, managerial and supervisory positions in industry, manufacturing, insurance, transportation, utility, government, construction, trade service industries and others. There remains a need in Pennsylvania and the nation for university educated occupational safety and health professionals. The curriculum includes a major of **45** credit hours in Safety Sciences and an additional **9** credit hours in related professional courses. A variety of elective courses is available in both the major and professional fields that enable students to strengthen their primary interest areas.

Bachelor of Science-Safety Sciences

Liberal Studies: As outlined in Liberal Studies section with the following 48 cr specifications:

Mathematics: (3 credits) MATH 105 Natural Sciences: CHEM 101 & 102

Social Sciences: PSYC 101, SOC 151, non western culture required

Liberal Studies Electives: (3 credits) MATH 217

Major:		45 cr
Required Courses	S:	
SAFE 101	Introduction to Occupational Safety & Health	3 cr
SAFE 111	Principles of Industrial Safety I	3 cr.
SAFE 211	Principles of Industrial Safety II	4 cr.
SAFE 212	Hazard Prevention Management I	3 cr
SAFE 220	Hazardous Materials	3 cr.
SAFE 320	Recognition/Evaluation/Control of Health Hazards I	4 cr
SAFE 311	Fire Protection	3 cr.
SAFE 345	Systems	3 cr.
SAFE 347	Ergonomics	3 cr.
SAFE 410	Environmental Safety & Health Regulations	3 cr.
SAFE 412	Hazard Prevention Management II	3 cr.
SAFE 420	Recognition/Evaluation/Control of Health Hazards II	4 cr.
SAFE 488 or 493	Safety Internship	6 cr.

Other Requireme	27 cr			
Additional Science	ce and Mathematics:			
BIOL 155 PHYS 111 PHYS 121 PHYS 112 PHYS 122	Human Physiology & Anatomy Physics I Lecture Physics I Lab Physics I I Lecture Physics I I Lab	4 cr 3 cr 1 cr 3 cr 1 cr		
Professional Cou	urses:			
BTST 321 Business & Interpersonal Communications MGMT 311 Human Behavior in Organizations ACCT 200 Foundations of Accounting		3 cr 3 cr 3 cr		
Free Electives (2	2 courses):	6 cr		
Total Degree Re	120 cr			
Minor - Safety S	<u>ciences</u>	18 cr		
The minor in Safety Sciences consists of 18 credit hours in Safety Sciences courses as identified below. The minor in Safety Sciences has improved job opportunities for students i Environmental Health, Environmental Geoscience, Criminology, Human Resource Management, International Business and Management.				

SAFE 101 Introduction to Occupational Safety and Health SAFE 111 Principles of Industrial Safety I SAFE 220 Hazardous Materials	3cr 3cr 3cr
Controlled Electives Three SAFE courses approved by department chair	9cr

2. Summary of Changes

a. Table 1 summarizes the proposed changes in the Safety Sciences Curriculum. Table 1 "Program Comparison" illustrates program changes for the entire curriculum based on the Liberal Studies Requirements, Professional Courses, Free Electives, Prerequisite Courses, and SAFE Major Courses. Again, the specific changes are in **bold** and *italicized*.

TABLE 1. PROGRAM COMPARISON

Current Safety Sciences Program Revised Safety Sciences Program

Outrent Salety Sciences Program	Nevised Salety Sciences Frogram
LIBERAL STUDIES	LIBERAL STUDIES
English Composition: EN 101 & 202 - 7 cr.	English Composition: ENGL 101 & 202 - 7 cr.
Mathematics: MA 217 - 3 cr.	Mathematics: MATH 105 - 3 cr.
Humanities: HI 195, EN/FL 121 &	Humanities: HIST 195, ENGL/FNGL 121 OR ENGL
Philosophy/Religious Study Elective - 9 cr.	122 & Philosophy/Religious Study Elective - 9 cr.
Fine Arts Elective - 3 cr.	Fine Arts Elective - 3 cr.
Natural Science: CH101-102 - 8 cr.	Natural Science: CHEM101-102 - 8 cr.
Social Science: PC 101, SO 151 & non western	Social Science: PSYC 101, SOC 151 & non western
culture required- 9 cr.	culture required - 9 cr.
Health & Wellness: HP 143 or FN 143 - 3 cr. or	Health & Wellness: HPED 143, NURS 143 or FDNT
MS101 - 102 Military Science - 4 cr.	143 - 3 cr. or MLSC 101-102 Military Science - 4 cr.
Electives: EC 122, MA 121 - 7 cr.	Electives: MATH 217 - 3 cr.
Synthesis Course - 3 cr.	Synthesis Course - 3 cr.
Total Liberal Studies: 52	Total Liberal Studies: 48 cr.
rotal Elboral ottation. OE	Total Elboral Ottation. To off
PROFESSIONAL COURSES	PROFESSIONAL COURSES
MG 311 Human Behavior in Organizations - 3 cr.	MGMT 311 Human Behavior in Organizations - 3 cr.
AD 321 Business & Interpersonal Commun 3cr.	BTST 321 Business & Interpersonal Commun 3cr.
	ACCT 200 Foundations of Accounting – 3 cr.
Three courses approved by advisor to form a	
concentration in a professional area -9 cr.	
Total Professional Courses: 15 cr.	Total Professional Courses: 9 cr.
SA PREREQUISITE COURSES	SAFE PREREQUISITE COURSES
PY 111 & 112 - 4 cr	PHYS 111 & 112 - 4 cr.
PY 121 & 122 - 4 cr.	PY 121 & 122 – 4 cr.
BI 155 - 4 cr.	BIOL 155 - 4 cr.
Total Prerequisite Courses: 12 cr.	Total Prerequisite Courses: 12 cr.
SA REQUIRED COURSES	SAFE REQUIRED COURSES
SA 101 Intro. to Occup. Safety & Health - 3 cr.	SAFE 101 Intro. to Occup. Safety & Health - 3 cr.
SA 111 Principles of Industrial Safety I - 3 cr.	SAFE 111 Principles of Industrial Safety I - 3 cr.
SA 210 Environ. Safety & Health Regul 3cr.	SAFE 211 Principles of Industrial Safety II - 4 cr.
SA 211 Principles of Industrial Safety II - 4 cr.	SAFE 212 Hazard Prevention Management I- 3 cr.
	SAFE 220 Hazardous Materials - 3cr.
SA 301 Health Hazard Identification - 3 cr	SAFE 320 Recog/Eval/Control Health Haz I – 4 cr.
SA 303 Control of Health Hazards - 3 cr.	
SA 311 Fire Protection - 3 cr.	SAFE 311 Fire Protection - 3 cr.
SA 345 Systems - 3 cr.	SAFE 345 Systems - 3 cr.
SA 347 Ergonomics - 3 cr.	SAFE 347 Ergonomics - 3 cr.
	SAFE 410 Environ. Safety & Health Regul 3 cr.
SA 402 Health Hazard Evaluation - 3 cr.	SAFE 420 Recog/Eval/Control Health Haz II – 4 cr.
SA 412 Hazard Prevention Management - 4 cr.	SAFE 412 Hazard Prevention Management II - 3 cr.
SA 493 Safety Internship - 6 cr. or SA 488 Safety	SAFE 493 Safety Internship - 6 cr. or SAFE 488
Internship - 12 cr. (If SA 488 is used, 6 credits are	Safety Internship - 12 cr. (If SAFE 488 is used, 6
counted toward the Professional Electives).	credits are counted toward the Free Electives).
Credits in Major: 41 cr.	Credits in Major: 45 cr.
	Free Electives: 6 cr.
Total Degree Requirements: 120 cr.	Total Degree Requirements: 120 cr.
	· · · · · · · · · · · · · · · · · · ·

b. List of all associated course changes:

SAFE 220 Hazardous Materials

New course developed to cover hazardous materials that was only briefy covered in the old SAFE 210 Environmental Safety & Health Regulations.

SAFE 212 Hazard Prevention Management I

New course developed to cover safety management aspects not covered adequately in previous curriculum.

SAFE 320 Recognition/Evaluation/Control of Health Hazards I

New course developed with SAFE 420 to replace the old industrial hygiene sequence of courses, SAFE 301, 303, and 402.

SAFE 410 Environmental Safety and Health Regulations

Course number change and minor revisions to update objectives and course content now that a sophomore level course was added to cover hazardous materials, SAFE 220.

SAFE 420 Recognition/Evaluation/Control of Health Hazards II

New course developed with SAFE 320 to replace the old industrial hygiene sequence of courses, SAFE 301, 303, and 402.

SAFE 412 Hazard Prevention Management II

Name change, reduction in credit hours from 4 to 3 and course revision to update objectives and course content based on development of new sophomore level management class.

Math 121 Calculus I

Remove as a requirement for the program and replace with Math 105 College Algebra.

ECON 122

Remove ECON 122 as a Liberal Studies Elective course and replace with another Professional Course: ACCT 200 Foundations of Accounting.

Remove three courses that form a concentration in a professional area (9cr.)

Remove the requirement for three professional courses that form a concentration in a professional area and replace with 6 credits of free electives.

3. Rationale for Program Changes:

A. Remove MATH 121 Calculus and replace with MATH 105 College Algebra

Rationale: In the past Calculus was required by our accrediting agency, the Applied Science Accreditation Commission of the Accreditation Board for Engineering and Technology, see Appendix A. Two years ago the accreditation criteria were changed and the requirement is now College Algebra. Currently less than 5 % of our students place into MATH 121 as freshman. Therefore 95% of the freshman have to take at least one additional math course (MATH 105) and some have to take two, MATH 100 as well.

Based on the above, Safety Sciences Department Faculty believe our current program with requirements for both MATH 105 and MATH 217 provide enough coverage in mathematics to allow our students to successfully complete the remainder of their coursework in the major and be successfully safety & health professionals.

B. Remove ECON 122 and replace with ACCT 200

Rationale: Our advisory board has recommended this change and it is supported by department faculty. Increasingly, safety professionals are being asked to integrate safety into other business functions within the organization and no where is this more true than the financial side. It was believed that ACCT 200 would provide our students basic financial accounting principles and it was chosen over FIN 310 Fundamental of Finance because this course would require our students to take two additional prerequisites.

C. Remove the three professional elective courses that formed a concentration in a professional area and replace with two Free Elective Courses.

Rationale: A recent review during graduate checkout revealed a very liberal interpretation of professional concentration area by department advisors with most allowing almost any course to fit into this area. Therefore, it was decided to remove this section and replace with two free elective courses. This change will provide the students more flexibility which is crucial for students who transfer into the safety sciences major. Approximately 60% of our current students transfer into our program during their sophomore year. The other three credits were needed because we added the course SAFE 220 Hazardous Materials.

D. Add a course in Hazardous Materials (SAFE 220)

Rationale: For the past ten years the safety profession has been expanding into the area of hazardous materials. We recognized this issue 7 years ago and created a sophomore level course SAFE 210 Environmental Safety and Health Regulations with a portion of this course covering hazardous materials. The involvement of safety professionals in this area continues to expand and alumni as well as our Advisory Committee have recommended we expand our coverage of hazardous materials. This is also a required topic of our accrediting agency, the Applied Science Accreditation Commission of the Accreditation Board for Engineering and Technology, see Appendix A.

E. Add an additional Safety Management Course for sophomore level students (SAFE 212)

Rationale: The department has always tried to provide our students both the technical skills in our profession as well as the management skills to manage safety, health and environmental activities. The primary course related to safety management has been SAFE 412 Hazard Prevention Management. Unfortunately, we have not been able to adequately cover many safety management topics in this one course and they now are scattered piece meal through several other classes where the coverage is minimal. Adding SAFE 212 Hazard Prevention Management I will allow us to better cover safety management topics such as: safety professional ethics, legal aspects of safety, Product Safety Management, Fleet Safety Management, and OSHA Safety Management Program Elements. Many of these areas are required topics in our accredititation criteria and have been recommended by our alumni and advisory committee.

F. Delete three Industrial Hygiene Courses and replace with two new industrial hygiene courses with laboratories (SAFE 320 & 420).

Rationale: The two new industrial hygiene courses, SAFE 320 Recognition, Evaluation, and Control of Health Hazards I and SAFE 420 recognition, Evaluation and Control of Health Hazards II include content that was previously covered in three SAFE courses (SAFE 301, 303 & 402) Specifically the recognition of health hazards was covered in SAFE 301, the control in SAFE 303 and the evaluation in SAFE 402. This three course sequence created overlap and department faculty believed it was more efficient to address the recognition, evaluation and control of health hazards together in two courses. This change will also allow us to add a second industrial hygiene laboratory which will provide our students with the much needed hands on use of industrial hygiene equipment.

Part III Implementation

1. How will the proposed revision affect students already in the existing program?

Removal of MATH 121, three professional courses and ECON 122 and adding the two SAFE courses SAFE 212 and 410 and ACCT 200 starting with the Fall 2005 semester. Students already in the existing program who have not already taken ECON 122 will have the option of taking this course or taking ACCT 200 and they will not have to take the two new Safety Course SAFE 212 and 220 unless they choose to as an elective. Students already in the existing program who have not already taken Math 121 will have the option of taking this course or getting a course substitution for Math 105 as long as they make up the one credit difference with another course to maintain the 120 credit graduation requirement. Students entering the Fall of 2005 will meet the new curriculum requirements. Included in Appendix B is a revised Curriculum Sequence.

2. Are faculty resources adequate?

Faculty resources are adequate to support these changes with the following changes to course scheduling. In the past we have offered SAFE 301(3 workload hours), 303 (3 workload hours) and 402 (6 workload hours) every semester for a total of 24 workload hours each year. With these proposed changes we will offer one section of SAFE320 (9 workload hours) in the Spring and SAFE 420 (9 workload hours) in the Fall for a total of 18 workload hours each year. This will be a savings of 6 workload hours which will be used to support the two new SAFE courses, SAFE 212 and SAFE 220 both of which will only be offered once a year.

3. Are other resources adequate?

We have always supported an industrial hygiene laboratory for our old course SAFE 402. Now we will simply expand the number and types of laboratory exercises. The current laboratory room will be adequate because we will be offering the labs for the two courses on different semesters. If we need additional laboratory equipment and supplies we will use department funding from our ESF account.

4. Do you expect an increase or decrease in the number of students as a result of these revisions?

We do not expect these changes to affect enrollment in our program. However, it may increase slightly because of the removal of MATH 121 which was seen by many students as a deterrent. In addition, the vast majority of our students were not placed in MATH 121 and therefore were required to take one and possibly two prerequisite math courses.

Part IV. Periodic Assessment

1. Describe the evaluation plan.

Periodic assessment of the program will include both an internal and external evaluation. The internal evaluation is completed annually by the department faculty. This evaluation includes a review of the following six program outcomes:

- I. Demonstrated their ability to anticipate, identify, evaluate and develop hazard prevention/control designs, methods, procedures and programs.
- II. Acquired those basic research skills necessary to analyze and interpret data.
- III. Developed an understanding of their professional and ethical responsibilities within the Safety, Health and Environmental Profession.
- IV. Developed an ability to communicate effectively and work in multidisciplinary teams.
- V. Acquired an ability to apply mathematics and sciences as it relates to the Safety, Health and Environmental Profession.
- VI. Developed an ability to analyze and improve the management system with the goal of preventing the occurrence of hazardous acts and conditions that lead to loss incidents.

This internal evaluation also includes a review of course outcomes, recommendations from our graduate surveys and our Advisory Committee. The advisory committee meets on a semiannual basis with one of their responsibilities being the evaluation of our programs. This committee has a membership of twenty safety & health professionals and two current Safety Sciences Faculty. Many of the SAFE Course revisions included in this proposal resulted from the internal evaluation that occurred during the Spring 2002 and 2003 semesters.

For individual courses several different evaluation methodologies will be used to evaluate student-learning outcomes. The instructor of each class will be evaluated following the criteria outlined in Article 12 and 42 of the Collective Bargaining Agreement (CBA).

The external evaluation will be completed by an ABET accreditation team for a period of time not to exceed six years. A three person team will visit our program and complete a three day review of the curriculum which will focus on the achievement of program outcomes, as well as a review of facilities, faculty, students and resources. The program is currently in the process of collecting outcome assessment materials for the next accreditation visit which will be the Fall 2008 semester.

2. Specify the frequency of the evaluations.

The internal evaluations of the program are completed annually by department faculty. The Department Advisory Committee review our programs semi-annually and the ABET Accreditation evaluations occur once every six years.

3. Identify the evaluating entity.

Internal Evaluation: Department Faculty and students.

External Evaluations: Safety Sciences Advisory Committee and the Accreditation Board for Engineering and Technology (ABET), Applied Science Accreditation Commission.

Part V. Course Proposals

The proposals for the new courses SAFE 212, 220, 320 and 420 are attached as well as the proposals for the course revisions in SAFE 410, 311, 412 and 488. As mentioned earlier most of these revisions involve minor course changes.

Part VI. Letters of Support

Letters of support were requested from the Accounting, Economics, Math and Biology Departments. These letters as well as responses are included in Appendix C.

Appendix A

ACCREDITATION CRITERIA 2003 Criteria for Accrediting Applied Science Programs

PROGRAM CRITERIA FOR SAFETY AND SIMILARLY NAMED APPLIED SCIENCE PROGRAMS

Lead Society: American Society of Safety Engineers

These program criteria apply to safety, occupational safety, industrial safety and similarly named applied science programs.

I. PROGRAM CRITERIA FOR BACCALAUREATE LEVEL PROGRAMS

Students

The quality and performance of the students and graduates is an important consideration in the evaluation of an academic safety program. The institution must evaluate and monitor students and alumni to determine its success in meeting program objectives.

Program Educational Objectives

Each safety program for which an institution seeks accreditation or reaccreditation shall have in place:

- a. detailed published educational objectives that are consistent with the mission of the institution and these criteria.
- b. a process based on the needs of the program's various constituencies in which the objectives are determined and periodically evaluated.
- c. a curriculum and process that ensures the achievement of these objectives.
- d. a system of ongoing evaluation that demonstrates achievement of these objectives and uses the results to improve the effectiveness of the program.

Program Outcomes and Assessment

Safety programs shall demonstrate that their graduates have:

- a. an ability to apply knowledge of mathematics and science
- b. an ability to analyze and interpret data
- c. an ability to anticipate, identify, and evaluate hazardous conditions and practices
- d. an ability to develop hazard control designs, methods, procedures and programs.
- e. an ability to function on multi-disciplinary teams
- f. an understanding of ethical and professional responsibility
- g. knowledge of contemporary issues within a global and societal context.

Each program must have an assessment process with documented results. Evidence must be given that the results are applied to the further development and improvement of the program. The assessment process must demonstrate that the outcomes important to the mission of the institution and the objectives of the program, including those listed above, are being measured. Evidence that may be used includes, but is not limited to, the following: student portfolios, including design projects; nationally normed subject content examinations; alumni surveys that document professional accomplishments and

career development activities, employer surveys; and placement data of graduates.

The institution must have and enforce policies for the acceptance of transfer students and for the validation of credit courses taken elsewhere. The institution must also have and enforce procedures to assure that all students meet all program requirements.

Curriculum

- a. Graduates shall demonstrate proficiency in college algebra and statistics.
- b. Graduates shall demonstrate proficiency in the application of chemistry (including organic), physics, physiology, and biology as it pertains to the practice of safety.
- c. Graduates shall demonstrate proficiency in written composition and oral communications.
- d. Graduates shall demonstrate knowledge of the techniques, skills, and modern behavioral tools necessary for the practice of safety.
- e. Safety graduates shall demonstrate knowledge of:
 - 1. safety and health fundamentals
 - 2. industrial hygiene including toxicology
 - 3. systems safety and associated analytical techniques
 - 4. legal aspects of safety, health and environmental practice
 - 5. environmental aspects of safety and health
 - 6. product safety
 - 7. fire prevention and protection
 - 8. construction safety
 - 9. industrial or manufacturing processes
 - 10. applied mechanics for safety
- f. Safety graduates shall demonstrate competency in:
 - 1. laboratory techniques associated with industrial hygiene and basic sciences
 - 2. safety and health program management
 - 3. ergonomics
 - 4. accident/incident investigation and analysis
 - 5. the performance of education and training for safety
 - 6. fundamental exposure measurement techniques
 - 7. measurement of safety performance
- g. Students should be given the opportunity to apply principles of safety and health in a non-academic setting through an intern or cooperative work experience.

Appendix B

Rev. 1/05

DEPARTMENT OF SAFETY SCIENCES INDIANA UNIVERSITY OF PENNSYLVANIA CURRICULUM SEQUENCE

Name	Banner User ID			Advisor	Expected Graduation		
Semester SH S Fall (Semester 1) MATH 105 College Algebra 3 _ ENGL 101 College Writing 4 _ CHEM 101 College Chem I 4 _ SAFE 101 Intro Occu Sfty&Hith 3 _ 14	Sem Year	<i>Grade</i>	Note	Semester Spring (Semester 2) PSYC 101 General Psych HIST 195 History Modern Era CHEM 102 College Chem II SAFE 111 Prin of Safety I Wellness Elective*	3 3 3 3 16	Grade Note	
Fall (Semester 3) BIOL 155 Hum Phys&Anat 4 PHYS 111 Physics I 3 PHYS 121 Physics Lab 1 SAFE 211 Prin of Safety II 4 ENGL 202 Research Writing 3 15		<u></u>	=	Spring (Semester 4) SAFE 212 Hazard Prev Mgmt I PHYS 112 Physics II PHYS 122 Physics II Lab ACCT 200 Acct Prin I SAFE 220 Hazardous Mat. MATH 217 Prob & Stat	3 3 3 3 16	LS-E	
Non-West Culture* 3 SAFE 311 Indus Fire Protection 3 SAFE 345 System Sfty Analysis 3 Human Lit Elective* 3 MGMT 311 Hum Behav in Org 3 15		=	=	Spring (Semester 6) SAFE 320 Health Hazards I SAFE 347 Ergonomics Fine Arts Elective* SOC 151 Prin of Sociology BTST 321 Bus&Interpers Com	4 3 3 3 3 3 16		
Fall (Semester 7) SAFE 420 Health Hazrds II 4 SAFE 412 Hazard Prev Mgt 3 SAFE 410 Env Sfty Hlth Reg II 3 LBST 499 Synthesis Course 3 Philos/Rel Elective* 3 16				Spring (Semester 8) SAFE Internship Free Elective Free Elective	6 3	w	
*See list on back for course options. W - Writing Intensive Courses		Other Co	urses:				

*Philosophy/Religion Elective	
(select one)	
PHIL 101 Informal Logic: Methods of Critical Thinking	3
PHIL 120 Intro to Philosophy	3
PHIL 221 Intro to Symbolic Logic	3
PHIL 222 Ethics	3
RLST 100 Intro to Religion	3 3 3 3 3
RLST 250 Understanding the Bible	
RLST 290 Christianity	3
*Humanities Literature Elective (select one)	
ENGL 121 Humanities: Literature	3
FL 121 Humanities Literature	3
Fine Arts Elective (select one)	
ARHT 101 Introduction to Art	3
MUHI 101 Introduction to Music	3
THTR 101 Introduction to Theater	3
THTR 102 Introduction to Dance	3
Wellness Elective (select one)	
HPED 143 Health and Wellness	3
FDNT 143 Nutrition and Wellness	3
MLSC 101 Intro to Military Science and	2
MLSC 102 Fundamentals of Military Science	2
Non-Western Culture Elective (select one)	
ANTH 110 Contemporary Anthropology	3
ANTH 211 Cultural Anthropology	3 3 3
GEOG 104 Geography of the Non-Western World	3
PLSC 101 World Politics	3

^{*}The Humanities requirement group consists of HI 195 plus one Philosophy/Religion Elective plus one Humanities/Literature Elective.

Appendix C

Letters of Support

To: Dr. Gary Stoudt, Chairperson, Mathematics Department

From: Dr. Lon Ferguson, Chairperson, Safety Sciences Department

Date: 1/18/2005

Re: Revisions to Safety Sciences Curriculum

I want to thank you for the input you provided me last Fall regarding our Advisory Committee questions on differences between Math 105, Math 115 and Math 121. This information as well as the passing rates for the various courses was very helpful. Based on this input, review of ABET accreditation criteria for safety programs, and recommendations from our Advisory Committee, Department Faculty voted to change our current math requirement of MATH 121 Calculus to MATH 105 College Algebra.

As part of our curriculum proposal, would you please send a letter of support for this change, thank you!

To: Dr. Jerry Kline, Chairperson, Accounting Department

From: Dr. Lon Ferguson, Chairperson, Safety Sciences Department

Date: 1/18/2005

Re: Revisions to Safety Sciences Curriculum

I want to thank you for the input you provided me last Fall regarding our Advisory Committee questions on introductory level accounting courses. Based on this input and recommendations from our Advisory Committee, Department Faculty voted to change our current curriculum to require students to take ACCT 200 Accounting Principles I. Students will now be required to take this course as well as the two existing management courses, MGMT 311 and BTST 321.

There was some question as whether the course should be listed as ACCT 200 or 201, please advise so we can number this correctly in our curriculum proposal. As part of this proposal, would you please send a letter of support for this change, thank you!

To: Dr. Thomas Simmons, Assistant Chairperson, Biology Department

From: Dr. Lon Ferguson, Chairperson, Safety Sciences Department

Date: 1/18/2005

Re: Revisions to Safety Sciences Curriculum

As a member of the Safety Sciences Advisory Committee you are aware of our recent meetings to review our B.S. Curriculum. This review included liberal studies requirements, pre-requisite courses in math, sciences and management as well as core safety courses. Following the most recent meeting, the committee recommended the following changes for department faculty consideration:

- Replace MATH 121 with MATH 105
- Add undergraduate 200 level courses in Hazardous Materials and Safety Management
- Revise SAFE 210 Environmental Safety to eliminate coverage of hazardous materials and make this a senior level course to better reflect course content.
- Replace ECON 122 with ACCT 200 Accounting Principles I.
- Complete revision of Industrial Hygiene courses (SAFE 301, 303, and 402) to include two
 four credit courses with a lab (SAFE 320 and 420). In a nutshell these courses will no
 longer be divided into recognition, evaluation and control of health hazards but will be split
 based on chemical, biological and physical health hazards. As previously done, there was
 tremendous overlap in coverage and now the recognition, evaluation and control of the
 various hazards will be covered in the same course.

Based on these recommendations and a review of ABET accreditation criteria for safety programs, Department Faculty voted to change our B.S. Curriculum. We realize that Environmental Health Majors will be affected by the change from the revision of SAFE 210 to 410 but as you can see in the attached course proposals the major change was to simply remove coverage of hazardous materials and to make this a senior level course. We will as we have in the past waive all prerequisites for Environmental Health Majors. The other changes that will affect electives are the change from SAFE 301,303, and 402 to SAFE 320 and 420. Hopefully, these courses can remain as elective courses for your majors.

Please see the attached curriculum and course proposals. As part of our curriculum proposal, would you please send a letter of support for this change, thank you!

To: Dr. Nicholas Karatjas, Chairperson, Economics Department

From: Dr. Lon Ferguson, Chairperson, Safety Sciences Department

Date: 1/26/2005

Re: Revisions to Safety Sciences Curriculum

I wanted to inform you that the Safety Sciences Department is currently undergoing a revision of the B.S. Program in Safety Sciences. One of the revisions will be to reduce our current liberal Studies requirements from 51 credits to 48 credits. This reduction will be done by eliminating the need for our students to take ECON 122 which was a Liberal Studies Elective for our students.

As part of our curriculum proposal, would you please send a letter of support for this change, thank you!

From:

"Lon Ferguson" <ferguson@iup.edu>

To:

<gsstoudt@iup.edu>

Cc: Sent:

Subject:

"Lon Ferguson" <ferguson@iup.edu> Thursday, January 27, 2005 4:05 PM Revisions to Safety Sciences Curriculum

Hi Gary:

The Safety Sciences Curricculum proposal was recently approved by the CUCC and they asked me to follow-up or previous requests for letters of support for course changes, see memo below.

Your input would be appreciated!

To:

Dr. Gary Stoudt, Chairperson, Mathematics Department Dr. Lon Ferguson, Chairperson, Safety Sciences Department

From: Date:

1/27/2005

Re:

Revisions to Safety Sciences Curriculum

I want to thank you for the input you provided me last Fall regarding our Advisory Committee questions on differer between Math 105, Math 115 and Math 121. This information as well as the passing rates for the various courses w very helpful. Based on this input, review of ABET accreditation criteria for safety programs, and recommendations from our Advisory Committee, Department Faculty voted to change our current math requirement of MATH 121 Calculus to MATH 105 College Algebra.

As part of our curriculum proposal, would you please send a letter of support for this change, thank you!

From:

"Lon Ferguson" <ferguson@iup.edu>

To:

"Thomas Simmons" <tsimmons@iup.edu>

Cc: Sent: "Lon Ferguson" <ferguson@iup.edu> Thursday, January 27, 2005 4:11 PM

Subject:

Revisions to Safety Sciences Curriculum

Hi Tom:

The Safety Sciences Curricculum proposal was recently approved by the CUCC and they asked me to follow-up or previous requests for letters of support for course changes, see memo below.

Your input would be appreciated!

To:

Dr. Thomas Simmons, Assistant Chairperson, Biology Department

From: Dr. Lon Ferguson, Chairperson, Safety Sciences Department

Date: 1/20/2005

Re:

Revisions to Safety Sciences Curriculum

As a member of the Safety Sciences Advisory Committee you are aware of our recent meetings to review our B.S. Curriculum. Thi review included liberal studies requirements, pre-requisite courses in math, sciences and management as well as core safety courses. Following the most recent meeting, the committee recommended the following changes for department faculty consideration:

- Replace MATH 121 with MATH 105
- Add undergraduate 200 level courses in Hazardous Materials and Safety Management
- Revise SAFE 210 Environmental Safety to eliminate coverage of hazardous materials and make this a senior level course to better reflect course content.
- Replace ECON 122 with ACCT 200 Accounting Principles I.
- Complete revision of Industrial Hygiene courses (SAFE 301, 303, and 402) to include two four credit courses with a lab (SA 320 and 420). In a nutshell these courses will no longer be divided into recognition, evaluation and control of health hazar but will be split based on chemical, biological and physical health hazards. As previously done, there was tremendous ove in coverage and now the recognition, evaluation and control of the various hazards will be covered in the same course.

Based on these recommendations and a review of ABET accreditation criteria for safety programs, Department Faculty voted to change our B.S. Curriculum. We realize that Environmental Health Majors will be affected by the change from the revision of SAI 210 to 410 but as you can see in the attached course proposals the major change was to simply remove coverage of hazardous mater and to make this a senior level course. We will as we have in the past waive all prerequisites for Environmental Health Majors. The other changes that will affect electives are the change from SAFE 301,303, and 402 to SAFE 320 and 420. Hopefully, these courses (remain as elective courses for your majors.

Please see the attached curriculum and course proposals. As part of our curriculum proposal, would you please send a letter of sup for this change, thank you!

From:

"Lon Ferguson" <ferguson@iup.edu>

To:

<gpkline@iup.edu>

Cc: Sent:

Subject:

"Lon Ferguson" <ferguson@iup.edu> Thursday, January 27, 2005 4:18 PM Revisions to Safety Sciences Curriculum

Hi Jerry:

The Safety Sciences Curricculum proposal was recently approved by the CUCC and they asked me to follow-up or previous requests for letters of support for course changes, see memo below.

I also need to know the status of the new course proposal for ACCT 200. If this course has not yet been approved I need to change the curriculum propoal to ACCT 201, please advise.

Your input would be appreciated!

To:

Dr. Jerry Kline, Chairperson, Accounting Department Dr. Lon Ferguson, Chairperson, Safety Sciences Department

From: Date:

1/20/2005

Re:

Revisions to Safety Sciences Curriculum

I want to thank you for the input you provided me last Fall regarding our Advisory Committee questions on introductory level accounting courses. Based on this input and recommendations from our Advisory Committee, Department Faculty voted to change our current curriculum to require students to take ACCT 200 Accounting Principles I. Students will now be required to take this course as well as the two existing management courses, MG 311 and BTST 321.

There was some question as whether the course should be listed as ACCT 200 or 201, please advise so we can num this correctly in our curriculum proposal. As part of this proposal, would you please send a letter of support for this change, thank you!

From:

"Jolene Campbell" <jolenec@iup.edu>

To:

. . . .

<rdistani@iup.edu>

Cc:

"Lon Ferguson" <ferguson@iup.edu>

Sent:

Thursday, January 27, 2005 4:20 PM

Subject:

Course Numbers

Rich,

The Safety Sciences Department is making some curriculum changes and I need to know if the following course numbers are clear to use:

SAFE 212

SAFE 220

SAFE 320

SAFE 410

If you have any questions, please feel free to contact the office.

Jolene Campbell
IUP - Safety Sciences Dept.
117 Johnson Hall
Indiana, PA 15705
Email: jolenec@iup.edu

Phone: 724-357-3017 Fax: 724-357-3992

From: "Thomas Simmons" <tsimmons@iup.edu> To: "Lon Ferguson" <ferguson@iup.edu> Thursday, January 27, 2005 7:48 PM Sent:

Re: Revisions to Safety Sciences Curriculum Subject:

Dear Lon.

I did look over the hardcopy materials that you sent to me. They look like good changes for your program, and I see benefit for my ENVH Program as well. I will draft a letter of support. Thank you. Sincerely,

>

```
Tom Simmons
On Thu, 27 Jan 2005 16:11:56 -0500
 "Lon Ferguson" < ferguson@iup.edu > wrote:
>
                     Hi Tom:
>
> The Safety Sciences Curricculum proposal was recently approved by
>the CUCC and they asked me to follow-up on previous requests for
>letters of support for course changes, see memo below.
>
>
>
> Your input would be appreciated!
>
>
>
>
>
> To:
           Dr. Thomas Simmons, Assistant Chairperson, Biology
>Department
>
>From:
          Dr. Lon Ferguson, Chairperson, Safety Sciences Department
>
> Date:
          1/20/2005
> Re:
           Revisions to Safety Sciences Curriculum
>
> As a member of the Safety Sciences Advisory Committee you are aware
>of our recent meetings to review our B.S. Curriculum. This review
>included liberal studies requirements, pre-requisite courses in math,
>sciences and management as well as core safety courses. Following
>the most recent meeting, the committee recommended the following
>changes for department faculty consideration:
>
>
>
> .
       Replace MATH 121 with MATH 105
```

> . Add undergraduate 200 level courses in Hazardous Materials

>and Safety Management

> Revise SAFE 210 Environmental Safety to eliminate coverage > of hazardous materials and make this a senior level course to better > reflect course content.

> Replace ECON 122 with ACCT 200 Accounting Principles I.

> Complete revision of Industrial Hygiene courses (SAFE 301, >303, and 402) to include two four credit courses with a lab (SAFE 320 >and 420). In a nutshell these courses will no longer be divided into >recognition, evaluation and control of health hazards but will be >split based on chemical, biological and physical health hazards. As >previously done, there was tremendous overlap in coverage and now the >recognition, evaluation and control of the various hazards will be >covered in the same course.

> >

>

> Based on these recommendations and a review of ABET accreditation > criteria for safety programs, Department Faculty voted to change our > B.S. Curriculum. We realize that Environmental Health Majors will be > affected by the change from the revision of SAFE 210 to 410 but as > you can see in the attached course proposals the major change was to > simply remove coverage of hazardous materials and to make this a > senior level course. We will as we have in the past waive all > prerequisites for Environmental Health Majors. The other changes > that will affect electives are the change from SAFE 301,303, and 402 > to SAFE 320 and 420. Hopefully, these courses can remain as elective > courses for your majors.

> > >

> Please see the attached curriculum and course proposals. As part of >our curriculum proposal, would you please send a letter of support >for this change, thank you!

> >

>

> >

>

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> The Safety Sciences Curricculum proposal was recently approved by the
> CUCC and they asked me to follow-up on previous requests for letters of
> support for course changes, see memo below.
> I also need to know the status of the new course proposal for ACCT 200.
> If this course has not yet been approved I will need to change the
> curriculum propoal to ACCT 201, please advise.
> Your input would be appreciated!
>
>
> To:
                Dr. Jerry Kline, Chairperson, Accounting Department
> From:
           Dr. Lon Ferguson, Chairperson, Safety Sciences Department
            1/20/2005
> Date:
               Revisions to Safety Sciences Curriculum
> Re:
> I want to thank you for the input you provided me last Fall regarding
> our Advisory Committee questions on introductory level accounting
> courses. Based on this input and recommendations from our Advisory
> Committee, Department Faculty voted to change our current curriculum to
> require students to take ACCT 200 Accounting Principles I. Students
> will now be required to take this course as well as the two existing
> management courses, MGMT 311 and BTST 321.
> There was some question as whether the course should be listed as ACCT
> 200 or 201, please advise so we can number this correctly in our
> curriculum proposal. As part of this proposal, would you please send a
> letter of support for this change, thank you!
```

"Julie Moreland" <jamorela@iup.edu>

From:

1 ... "

"Lon Ferguson" <ferguson@iup.edu>; "Jackie Beck" <jbeck@grove.iup.edu> To: Friday, January 28, 2005 9:12 AM Sent: [Fwd: Re: Fw: Revisions to Safety Sciences Curriculum]] Subject: FYI. ----- Original Message -----Subject: Re: Fw: Revisions to Safety Sciences Curriculum] Date: Fri, 28 Jan 2005 07:27:21 -0500 From: "Jerry Kline" <gpkline@iup.edu> To: "Julie Moreland" < jamorela@jup.edu> References: <41F95F2E.70500@iup.edu> Julie, I will forward a copy of the ACCT 200 curriculum proposal along with the current status of the course in the approval pipeline. Jerry ---- Original Message -----From: "Julie Moreland" To: "Jerry Kline" Sent: Thursday, January 27, 2005 4:37 PM Subject: [Fwd: Fw: Revisions to Safety Sciences Curriculum] Could you please provide an update. Thanks. > ----- Original Message -----> Subject: Fw: Revisions to Safety Sciences Curriculum > Date: Thu, 27 Jan 2005 16:22:48 -0500 > From: "Lon Ferguson" > CC: "Jacqueline Beck" > Hi Julie: > Any help you can give me on this request would be appreciated, thank you! > ---- Original Message -----> From: Lon Ferguson > To: gpkline@iup.edu > Cc: Lon Ferguson > Sent: Thursday, January 27, 2005 4:18 PM > Subject: Revisions to Safety Sciences Curriculum > Hi Jerry:

From: "Jerry Kline" <gpkline@iup.edu>
To: "Lon Ferguson" <ferguson@iup.edu>
Cc: "Julie Moreland" <jamorela@iup.edu>
Sent: Friday, January 28, 2005 11:28 AM

Attach: ACCT 200 Foundations of Accounting(I).doc Subject: Re: Revisions to Safety Sciences Curriculum

Lon,

I have attached a copy of the ACCT 200 proposal for your review. I believe that this redesigned course will provide greater benefits to non-business majors who for either curriculum requirements or personal interests need to have some exposure to accounting principles and concepts. The course has been approved by the department and college curriculum committees and will be going forward to the University Undergraduate Curriculum Committee for approval. I am hopeful that I will be able to offer it during the Fall 2005 semester. I appreciate your interest and would be happy to discuss with you any other issues or concerns that you might have.

Jerry

---- Original Message ---From: Lon Ferguson
To: gpkline@iup.edu
Cc: Lon Ferguson

Sent: Thursday, January 27, 2005 4:18 PM Subject: Revisions to Safety Sciences Curriculum

Hi Jerry:

The Safety Sciences Curricculum proposal was recently approved by the CUCC and they asked me to follow-up previous requests for letters of support for course changes, see memo below.

I also need to know the status of the new course proposal for ACCT 200. If this course has not yet been approve will need to change the curriculum propoal to ACCT 201, please advise.

Your input would be appreciated!

To: Dr. Jerry Kline, Chairperson, Accounting Department

From: Dr. Lon Ferguson, Chairperson, Safety Sciences Department

Date: 1/20/2005

Re: Revisions to Safety Sciences Curriculum

I want to thank you for the input you provided me last Fall regarding our Advisory Committee questions on introductory level accounting courses. Based on this input and recommendations from our Advisory Committee, Department Faculty voted to change our current curriculum to require students to take ACCT 200 Accounting Principles I. Students will now be required to take this course as well as the two existing management courses, MGMT 311 and BTST 321.

There was some question as whether the course should be listed as ACCT 200 or 201, please advise so we can number this correctly in our curriculum proposal. As part of this proposal, would you please send a letter of supp for this change, thank you!

From:

"Jolene Campbell" <jolenec@iup.edu>

To: Sent: "Lon Ferguson" <ferguson@iup.edu> Monday, January 31, 2005 8:44 AM

Subject:

Fw: Course Numbers

---- Original Message -----From: Marcy Rearick To: Jolene Campbell

Sent: Friday, January 28, 2005 8:54 AM

Subject: Re: Course Numbers

Jolene, SAFE 212, 220, 320 and 410 are all available course numbers. Thanks for inquiring. Marcy

---- Original Message -----From: Richard A DiStanislao To: mrearick@iup.edu

Cc: rjsimon@iup.edu

Sent: Friday, January 28, 2005 8:27 AM Subject: Fwd: Course Numbers

--- the forwarded message follows ---Hi, Marcy.

Here is a message from Safety Science. I don't know if the people who are sending email are still getting my autoreply that I am no longer at IUP.

Have a good week-end.

Go Steelers! Oops, too late.

Rich

From:

To:

-

"Jolene Campbell" <jolenec@iup.edu> "Bob Simon" <RJSIMON@iup.edu>

Cc: Sent: "Lon Ferguson" <ferguson@iup.edu> Thursday, January 27, 2005 4:29 PM

Subject:

Curriculum Changes

Bob,

The Safety Sciences Department is making some curriculum changes and I need to know if the following course numbers are clear to use:

SAFE 212

SAFE 220

SAFE 320

SAFE 410

If you have any questions, please feel free to contact the office.

Joiene Campbell IUP - Safety Sciences Dept. 117 Johnson Hall Indiana, PA 15705 Email: jolenec@iup.edu

Phone: 724-357-3017 Fax: 724-357-3992

From:

"Gary Stoudt" <Gary.Stoudt@iup.edu>

To:

<ferguson@iup.edu>

Sent:

Tuesday, February 01, 2005 9:25 AM

Subject:

Re: Revisions to Safety Sciences Curriculum

The Mathematics Department can accommodate Safety Science students in changing a Liberal Studies Elective requirement from MATH 121 to MATH 105. It is likely that most of these students were already taking MATH 105 as preparation for MATH 121.

Gary Stoudt, Chairperson Mathematics Department