LSC Use Only

RECEIVED

Submission Date:

Approvals (sign

Syllabus of Record

I. Catalog Description

SAFE 145 Workplace Safety Today and Tomorrow

3 lecture hours
0 lab hours
3 credits
(3c-0l-3sh)

Prerequisites: Non-Safety Sciences Major

Introduces workplace safety, health and environmental aspects to students with limited knowledge of the subject. It includes the historical development of safety and health regulations, the impact of injury on society, identifying and evaluating hazards and hazard controls in specific industrial processes, basic principles of loss management, and the future of safety, health and environmental regulations.

II. Course Objectives

Upon completion of this course, the student will be able to:

1. Assess the historical significance of occupational safety, health and environmental regulations and their impact on the workplace.
2. Describe basic terms used in describing workplace health and safety

4. Training of employees
5. Personal protection
6. Emergency planning
7. Test on Units A and B

C. KNOWING THE HAZARDS ON THE JOB (9 hours)
1. Acquiring and evaluating hazard information
2. Examining human factors and work environments
3. Investigating and analyzing accidents
4. Keeping reports, records and costs
6. Recognizing health stressors

INDUSTRIES (8 hours) and Test (1 hour)
1. Electrical and electronic
2. Chemical processing
3. Metal product fabrication and finishing
4. Technology manufacturing
5. Test on Units C and D

30% Homework Assignments. Four homework assignments (one per unit A to D) will be given on required readings. These assignments will be equally weighted.

20% Book Review/Position Paper. Each student will review one book selected from a list presented by the instructor. The student will prepare a summary and assessment of the substantial arguments or themes of the book. Evidence must be provided to support the assessment. Applying the [redacted]

Diamond, Jared. (1990). Guns, Germs and Steel: The Fates of Human Societies. Norton, W.W. & Company Inc.

Gore, Albert. (1992). Earth in the Balance. Houghton Mifflin Company.

Keys, David. (2000). Catastrophe: An investigation into the Origins of Modern World. Ballantine Publishing Group.

Larsen, Margie, et al. (1996). Barney says "Play Safety". Lyrick Publishing.

Sinclair, Upton. (1998). The Jungle. Addison-Wesley Educational Publishers Incorporated.

Solzhenitsyn, Richard B. (1995). Running from Safety. Dell Publishing.

Stegner, Wallace E. (1990). Crossing to Safety. Viking Penguin.

Toohey, John. (2001). Captain Bligh's Portable Nightmare. Harper Collins Publishing.

Nader, Ralph. (1991). Unsafe at Any Speed. Knightsbridge Publishing Company Incorporated.

VII. Special resource requirements

None

VII. Bibliography

Ayers, et al. (2000). Environmental Science and Technology Handbook. Rockville, MD: Government Institutes, Inc.

Balchin, Nigel C. and Castner, Harvey R. (1996). Health and Safety in Welding and Allied Processes. (5th ed.). New York: McGraw-Hill, Inc.

Laing, P.M., Editor. (1998). Supervisor's Safety Manual, (10th ed.). Chicago: National Safety Council.

Levitt, Raymond and Semelson, Nancy. (1997). Construction Safety Management, (3rd ed.). New York: McGraw-Hill.

Sullivan, Thomas F.P., Editor. (2000). Environmental Law Handbook, 16th

Woodside, G. (1995). Hazardous Materials and Hazardous Waste Management. New York: John Wiley & Sons.

Historic References

[redacted]

ed.). New York: McGraw-Hill, Inc.

[redacted]

Englewood Cliffs, NJ: Prentice-Hall, Inc.

Brauer, Roger L. (1994). Safety and Health for Engineers. New York: Van Nostrand Reinhold.

Brown, David D. (1976). Systems Analysis and Design for Safety. NJ: Englewood Cliffs.

Course Analysis Questionnaire
SAFE 145

Section A: Details of the Course

A1 This course is a requirement for the proposed degrees Associate in Applied Science in Electro-Optics (A.A.S.E.O.) and Associate in Science in Electro-Optics (A.S.E.O.). A copy of the proposed curriculum is included in Appendix A.

[redacted]

A2 This course does not require changes in any other courses in the department. The Applied Physics program will have an additional track associated with the A.S.E.O. degree and this course will be part of that track of the Physics Department.

A3 This course has not been offered on a trial basis at IUP.

A4 This course is not intended to be dual level.

A5 This course is not to be taken for variable credit.

A6 Similar introductory courses are offered at other institutions. A partial list of institutions is provided in Appendix B. Some of these courses have no pre-requisite and are intended for students with little previous knowledge of the subject, as shown in Appendix B.

A7 The contents or skills of this proposed course are not recommended or required by a professional society, accrediting authority, law or other external agency. The content and/or skills of this course cannot be incorporated into an existing course. The materials of this course are taught in greater details in SAFE 101, SAFE 111

Section C: Implementation

C1 The faculty resources are adequate. No new faculty are needed to teach this course.

C2 Other Resources

a. Space: Current space allocations are adequate to offer this course.

[redacted]

and other consumables goods are required for this course.

d. Library Materials: Library holdings are adequate.

Dennis Whitson

From: Lon Ferguson <ferguson@grove.iup.edu>
To: [redacted]

Cc: Tony Joseph <ajjoseph@grove.iup.edu>
Sent: Thursday, October 19, 2000 9:34 AM
Subject: Support for Associate Program

Hi Dennis:

[redacted]