

CURRICULAR OFFERING/CHANGE AUTHORIZATION

PLEASE CHECK ONE FOR EACH FORM

- NEW COURSE ADDITION
- COURSE DELETION
- COURSE NUMBER CHANGE
- COURSE DESCRIPTIVE TITLE CHANGE
- SEMESTER HOURS CHANGE

Safety Sciences Department  
DEPARTMENT

- UNDERGRADUATE
- GRADUATE

List only one add, or one drop, or one change per form. Submit all copies of this form to School Dean in sufficient time for action by his/her office and action by Curriculum Committee/Graduate Council.

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ACTION	DEPT.	NUMBER	DESCRIPTIVE TITLE	SEMESTER HOURS	REMARKS
ADD					
DROP					
CHANGE FROM	Safety Sciences	445	Product Safety	3	See Attached
TO	Safety Sciences	245	Product Safety	3	

My signature on this form signifies that I, or the approving agency which I chair on the following date approved the inclusion/deletion or changes listed above to the appropriate Master Class Card File.

*[Signature]* CHAIRMAN 2/22/88 DATE

*[Signature]* DEAN OF SCHOOL 2-29-88 DATE

\_\_\_\_\_  
CHAIRMAN OF CURR. COMM/GRAD COUNCIL DATE

SIGN ALL COPIES AND ROUTE AS FOLLOWS:  
CHAIRMAN, DEAN, COMM. OR COUNCIL,  
SCHEDULING CENTER.

Justification:

In the original Safety Management curriculum, Product Safety was a required course and was intended to be the second part of the systems sequence in which SA 345 was the first part. The course did not develop as a Product Safety Engineering course however, but rather as a survey course easily comprehended by every student who has taken it. This would be the perfect Sophomore level Safety Elective but the course number, and prerequisites should be changed to reflect this.

Catalog Description:

SA 245 Product Safety

3c-01-3sh

Prerequisites: SA 101 or consent

Traces flow of applicable legislation dealing with consumerism and product safety. Corporate liability for product safety emphasized through case studies. Student familiarized with evolving role of Consumer Product Safety Commission. Corporate management of product development and safety detailed with emphasis on systems safety analysis, standards, and product testing.

Change in Course Number and Course Revision

SA 445 Product Safety changed to SA 245 Product Safety.

Course was originally submitted as a course number change only. UWUCC asked the department to supply additional information. Attached is the syllabus for the course as well as a rationale for the number change.

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INDIANA UNIVERSITY OF PENNSYLVANIA

Safety Sciences Department

SA445 PRODUCT SAFETY

Course Requirements

Richard L. Christensen

Uhler 3C

Phone 357-3019

Summer

Conduct of Course

Objective- the objective of this course is to familiarize the student with important principles of product hazard recognition, product safety legislation, product liability, and the fundamentals of Product Safety Management.

Grade- the final grade will be determined by a summation of the points earned from quizzes, reports, homework, class participation, and 3 major exams. Approximate point values will be as follows:

Quizzes	= 25 points each
Homework	= 25 points each
Class Participation	= 25 points max.
Book Reports	= 100 points each
Exams	= 100 points each

Your grade, at any time, may be determined as a percentage of expected maximum; with 90% and above an "A", 80-89% a "B", 70-79% a "C", 60-69% a "D", and below 60% an "F".

Exams- all quizzes will be closed book. Exams will be closed book and will include material covered during the previous 2-week instructional period.

Text- Required for this course:

Product Safety Management and Engineering. Willie Hammer. Prentice-Hall, Englewood Cliffs, N.J. 1980.

Other Readings- On reserve in Stapleton Library:

1. Gray, Irwin. Product Liability-A Management Response. Amacom, A division of American Management Associations. New York. 1975.
2. Dickerson, F. Reed. Product Safety in Household Goods. The Bobbs-Merrill Company, Inc.. New York. 1968.
3. The Consumer Product Safety Act. The Bureau of National Affairs, Inc. Washington, DC. 1973.
4. Final Report-National Commission On Product Safety. U.S. Government Printing Office. Washington, DC. 1970.

Summer

Guidelines For Book Reports

Introduction- two book reports will be written during the session with due dates shown on the class schedule & assignments. The books will be taken from the following lists. One book should be selected from each list below.

LIST ONE

Unsafe at Any Speed,  
Ralph Nader, 1972  
629.23 N125

Safety Last  
J.O'Connell & Arthur Myers  
Random House, NY 1966  
614.86 Oc5

Fire: An International Report  
Stephen Barley, 1973  
614.84 B24 8f

Destination Disaster  
Paul Eddy, Elaine Potter and Bruce  
Page, Ballantine Books, NY 1978

Loud and Clear  
Robert J. Serling  
Doubleday & Co., Inc.  
Garden City, NJ 1969  
614.86 Se67

Small on Safety--The Designed-in Dangers  
of the Volkswagon  
Center for Auto Safety  
Glossman Publishers, NY 1972  
629.23 C 333s

Mobile Homes; The Low-Cost Housing Hoax  
A Report by the Center for Auto Safety,  
Lynda McDonnell, NY  
Grossman Publishers 1975 643. C 333m

Highway Homicide  
Paul Kearney  
T.Y. Cromwell Co., NY 1966  
629.23 K 214

LIST TWO

Eating May Be Hazardous to  
Your Health,  
J. Verrett and J. Carper  
Simm and Shuster, NY 1974  
614.31 V611e

Toys That Don't Care  
E.M. Swartz, 1971  
688.72 SW26t

Skin Deep  
M.C. Phillips, Vanguard Press  
NY 1934

The Chemical Feast  
James S. Turner, 1970  
658.83 T 854c

100,000,000 Guinea Pigs  
A. Kallet and F.J. Schlink  
The Vanguard Press, NY 1933  
614.3 K12

Cosmetics: Trick or Treat?  
Toni Stabile,  
Houston Books NY 1966  
613.4 ST 11

American Chamber of Horrors  
Ruth deForest Lamb  
Farrar and Reinhart, NY 1936  
614.3 L16

The Mirage of Safety  
B.T. Hunter  
Charles Scribner's Sons, NY  
1975

Organization- the book reports shall be organized as follows and should be able to discuss adequately all important points in 6-10 typed pages.

Introduction - give the reader a general overview of what the book was all about. No treatment of details is needed in this section.

Theme - what were the authors trying to say? What were the main points developed in this book? How did the authors support these main points? Were you convinced by the arguments made and the evidence given?

Relevance - what importance do you feel this book has for business or safety professionals today? Are the main points still valid? Who needs to read this book? How have you been influenced by this book? Discuss in detail.

Summary - reiterate and summarize the main points you have discussed in A, B, and C. Add any further conclusions.

Typing- guidelines are as follows:

1. The cover page must contain:
  - a. Book title in center of page
  - b. In bottom center of page:
    - i. Student's name
    - ii. Course title - SA445
    - iii. Date
2. Do not use whole pages to title a section of the report. For example, do not use a whole page with the word "Theme" on it to introduce the theme of the report.
3. The report shall be typed using doubled spacing. Margins must be 1½ inches on the left and 1 inch on the right and at the top and bottom. Number the pages beginning at the bottom of the first full page and continuing at the top right-hand corner of subsequent pages.

Note- There will be a penalty for late reports of 10 points per day.

Summer

Class Schedule & Assignments

Schedule of lectures and assignments based on five 1½-hour lectures per week.

Week No.	Subject	Readings & Assignments
1.	Product Safety as an Area of Study Collection of Injury Data Hazards of Power Lawn Mowers Hazards of Architectural Glass	NCPS Report, Chapt. 2 Text Chapt. 1 & Appendix A Dickerson pg. 16-84 Text Chapt. 6-8 Quiz No. 1
2.	Gas Fired Appliances Glass and Aerosol Containers Hazards of Electrical Wiring Electrical Appliances Products Involving Slipping Hazards	Supplementary Readings (SR) (SR) Vol. II, pg 17-20; 26-31 Text Chapt. 9-11 (SR) Vol. II, pg 32-35; 59-67 (SR) Vol. I, pg 5-7 Exam No. 1
3.	Hazards of Bicycles, Toys, Infant Furniture Household Chemicals Flammable Fabrics Act Federal Food, Drug, & Cosmetic Act	-- -- Text Chapt. 4-5 Book Report I (7/8/83) Quiz No. 2
4.	Hazardous Substance Labeling Act Consumer Product Safety Act and other legislative acts/amendments  Introduction to Torts	(SR) Vol. I, pg 55-59 BNA, pg 1-43; 51-74 (SR) Vol. I, pg 1-4; 26-27 (SR) Vol. II, pg 54-58 Text Chapt. 2 Exam No. 2
5.	Principles of Negligence  Principles of Privity and Strict Liability  Defenses in Product Liability Review of Liability Process of Product Evolution	(SR) Vol. II, pg 6A-16; 21-25 46-53 (SR) Vol. I, pg 17-24; 44-49 Gray Chapt. 3-4 -- -- Text Chapt. 3 & 12 Quiz No. 3
6.	Process of Research, Design, and Development Quality Assurance & Human Factors Design Reviews, Product Recall, and Information Feedback Product Liability Insurance	(SR) Vol. I, pg 28-43; 8-16 Text Chapt. 13-16 (SR) Vol. II, pg 1-6; 36-41 Text Chapt. 17-19; Appendix B. Gray Chapt. 5 Book Report II (7/27/83) Exam No. 3

- Unit I                    Collection of Data on Product-Related Accidents
- 2 Hours                The creation of the National Commission on Product Safety is discussed along with a synopsis of the Special Studies and testimony related to frequency and severity of product related accidents; other sources, data and relevant publications.
- Unit Objective
- Students will acquire background and historical information on consumer product accident related information.
- Unit II                    Nature of Product Hazards
- 13 Hours                Students are introduced to extent of the accident problem as reflected by the numbers and types of injuries which through the use of consumer products: glass doors, fireworks, glass containers, aerosol containers, washing machines, refrigerators, stoves, furnaces, television sets, power tools, recreational equipment, lawn mowers, toys, infant furniture and equipment; computation of frequency and severity rates.
- Unit Objective
- Students will understand the number and types of injuries associated with the more common consumer products.
- Unit III                    Existing Product Hazard Control Measures
- 3 Hours                Summarization of industry, government and consumer activity in the area of product safety; industry groups and standards; private research and test organizations; consumer groups and their activities is given.
- Unit Objective
- Students will understand the relationship of various Federal and private groups and their efforts in promoting product safety.
- Unit IV                    Product Safety Legislation Enacted Prior to 1972
- 4.5 Hours                Explained is the history, scope and enforcement of legislation dealing with product safety. Among the legislative acts discussed are Federal Food, Drug and Cosmetic Act of 1938, Flammable Fabrics Act of 1953, Refrigerator Safety Act of 1956, Federal Hazardous Substances Labeling Act of 1960, Child Protection & Toy Safety Act of 1969, Poison Prevention Packaging Act of 1970.

Unit Objective

Students will gain knowledge of the various consumer product federal legislation passed prior to 1972.

Unit V

Consumer Product Safety Act of 1972

3 Hours

History and purpose of the legislation is discussed together with: enactment and scope; organizational changes - Consumer Product Safety Commission and its powers; transfer of functions under the act; data collection functions (NEISS); enforcement and penalties; exemptions.

Unit Objective

The students will become familiar with the Consumer Product Safety Act of 1972.

Unit VI

Introduction to Torts and Liability

6 Hours

Students are introduced to the Law of Torts; tortuous acts and principle of negligence; injury and damage to plaintiff; proximal cause and foreseeability; contributory negligence and assumed risk; Res Ipsa Loquitor; Warranties - implied and expressed.

Unit Objective

The students will understand basic legal concepts of torts, privity, negligence, damage proximal cause, foreseeability, and other associated terms as these terms relate to consumer product safety.

Unit VII

Modern Developments in Product Liability

3 Hours

Changes in the rule of privity will be explained together with modern interpretations of liability; strict liability; breach of warranty; expert testimony in product liability cases.

Unit Objective

The students will have a basic understanding of the legal process of discovery and modern interpretations of recent litigation decisions related to product liability.

Unit VIII

Case Studies in Product Liability

3 Hours

Students will research and discuss case studies which are important in demonstrating legal principles, interpretations and precedents relative to the points covered in Units VI and VII.

Unit Objective

The students will understand how to review and interpret case studies and how they relate to various legislative acts.

Unit IX

Managing the Loss Prevention Effort

4.5 Hours

Students will be shown the organization and planning for product liability; responsibilities of design and engineering, research and development, purchasing, manufacturing, sales and advertising, concepts of product liability insurance; use of System Safety Analysis in preventing design hazards and system failure.

Unit Objective

The students will understand how to plan and organize a total product safety management system which should prevent/mitigate design hazards and system failures related to product safety.

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*M. P. ...*      2/22/88  
CHAIRMAN      DATE

*Harold C. ...*      2-26-88  
DEAN OF SCHOOL      DATE

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