

Honors College Course

Fall/Autumn

Year

Section	Section Number	Section Title	Section Description	Section Type	Section Status	Section Location	Section Time	Section Days	Section Semester	Section Year	Section Chair(s)
1	101	Introduction to Psychology	...	Lecture	Open	...	...	...	...	...	...
2	102	Developmental Psychology	...	Lecture	Open	...	...	...	...	...	...
3	103	Biological Psychology	...	Lecture	Open	...	...	...	...	...	...
4	104	Abnormal Psychology	...	Lecture	Open	...	...	...	...	...	...
5	105	Psychology of Women	...	Lecture	Open	...	...	...	...	...	...
6	106	Psychology of Aging	...	Lecture	Open	...	...	...	...	...	...
7	107	Psychology of Health	...	Lecture	Open	...	...	...	...	...	...
8	108	Psychology of the Environment	...	Lecture	Open	...	...	...	...	...	...
9	109	Psychology of the Family	...	Lecture	Open	...	...	...	...	...	...
10	110	Psychology of the Workplace	...	Lecture	Open	...	...	...	...	...	...
11	111	Psychology of the Law	...	Lecture	Open	...	...	...	...	...	...
12	112	Psychology of the Media	...	Lecture	Open	...	...	...	...	...	...
13	113	Psychology of the Internet	...	Lecture	Open	...	...	...	...	...	...
14	114	Psychology of the Future	...	Lecture	Open	...	...	...	...	...	...

Course Revision: SAFE 111 Principles of Safety I – General Industry

Part II. Description of the Curriculum Change

1. Syllabus of Record.

The new syllabus of record for this revised course is attached in Appendix A.

2. A summary of the proposed revisions:

Course name was changed to illustrate the focus on general industry.

c. Course content was revised by adding coverage of walking and working surfaces, and hand and

3. Justification/rationale for the revision.

The slight changes to this course were necessary because we are also revising SAFE 211 Principles of

have been responding to Alumni and our Advisory Committee suggestions that we cover construction

SYLLABUS OF RECORD

I. Catalog Description

Course Title: SAFE 111 Principles of Safety I – General Industry
Prerequisites: SAFE 101

3 lecture hours
0 lab hours
3 credits
(3c-01-3cr)

Stresses an understanding of the complexity of the industrial hazard control problem by thoroughly examining elements of safety and health enumerated in the OSHA promulgated general industry standards and various consensus standards. Emphasis given to plant layout and design, powered industrial vehicles, boilers and unfired pressure

vessels, working and walking surfaces, machine guarding, and an introduction to industrial processes.

II. Course Objectives

Students will be able to:

B. demonstrate competency in the legal aspects of safety by using the Occupational Safety and Health
Administrative (OSHA) standards to identify specific violations of current standards

D. Powered Industrial Vehicles

(Week # 4-5)

4. Training of operators
5. Automatic guided vehicles

E. Boilers and Unfired Pressure Vessels

(Week # 6)

1. Construction and installation
2. Inspection and maintenance

F. Walking and Working Surfaces

(Week # 7)

1. Significance of exposure to employees and public
2. Slips and falls - coefficient of friction
3. ~~Checking floor materials~~

IV. Evaluation Methods

The faculty person assigned to teach this course could be one of several faculty within the Safety Sciences Department. What follows is an example of the evaluation methods and weighting used by one of those faculty.

A. At least two examinations (60%)

Both examinations will be announced and will be closed book except for the use of the Code of Federal

VIII. Special Resource Requirements

None

IX. Bibliography

James Reason. *Safety and Health for Engineers*. New York: Van Nostrand Reinhold, 2006

Appendix B Old Syllabus of Record

I. Catalog Description

Course Title: SAFE 111 Principles of Industrial Safety
Prerequisites: SAFE 101

3 credits
0 lab hours
3 semester hours

(3c-01-3sh)

Stresses an understanding of the complexity of the industrial hazard control problem by thoroughly examining elements of safety and health enumerated in the OSHA promulgated standards and various consensus standards. Emphasis given to plant layout and design, powered industrial vehicles, boilers and unfired pressure vessels, machine guarding, rotation safety, and an introduction to industrial processes.

II. Course Objectives

Students completing this course will be able to:

- D. Powered Industrial Vehicles (6 Hours)
 - 1. Classes of industrial trucks/vehicles
 - 2. Safe operation of vehicles
 - 3. Maintenance and inspection of vehicles
 - 4. Training of operators
 - 5. Automatic guided vehicles

- F. Boilers and Unfired Pressure Vessels (3 Hours)
 - 1. Construction and installation
 - 2. Inspection and maintenance

- F. General Requirements for Machine Guarding (4 Hours)
 - 1. Point of operation guarding
 - 2. Power transmission guarding
 - 3. Administrative controls

- G. Metal and Wood Working Machinery (6 Hours)
 - 1. Grinders, shapers and sanding machines
 - 2. Lathes and mills
 - 3. Sawing machines
 - 4. Drilling machines

- H. Cold and Hot Forming Machinery (6 Hours)
 - 1. Cold and hot metal process
 - 2. Mechanical and hydraulic punch presses
 - 3. Press brakes and shears
 - 4. Forging hammers

- I. Robotics Safety (4 Hours)
 - 1. Types of robots
 - 2. Uses for robots
 - 3. Hazards associated with robots
 - 4. Controls for robotics hazards

IV. Evaluation Methods

The faculty person assigned to teach this course could be one of several faculty within the Safety Sciences Department. What follows is an example of the evaluation methods and weighting used by one of those faculty.

The final grade in this class will be determined using a combination of the following:

- A. At least two examinations (60%)

All examinations will be announced and will be closed book except for the use of the Code of Federal Regulations (29CFR 1910) during certain sections. Questions on exams will be short answer, multiple

C. Homework (15%)

- identify hazards and possible control strategies.
- 2. Written chapter summaries from the text.

D. Individual and Group Projects (15%)

Projects will include a study of industrial accidents and the development of a crane inspection form

VIII. General Course Outline

Unit 1 Occupational Safety and Health Standards (4 hours)

Students are familiarized with the current procedures for the development of OSHA standards including emergency and temporary standards, variances and appeal procedures. Enforcement methods are discussed in detail: inspections, penalties, imminent hazards and citations. The student is

introduced to Volume 29 of the Code of Federal Regulations via discussion of definitions, coverage, and the referencing of specific standards. The students are also introduced to consensus standards such as ANSI, NFPA, and FM.

Unit Objective

Students will demonstrate competency in using the OSHA and consensus standards by identifying specific standards violated via homework assignments and case studies. The student will also be able to identify the procedures for developing OSHA standards as well as enforcement methods.

Unit 2 Introduction to Industrial Processes (3 hours)

The students will be introduced to the most common processes used in industry. This will include

The students are introduced to the basic operation of boilers and unfired pressure vessels. Laws covering construction, installation, inspection and maintenance are covered, with special emphasis on

Unit Objective: Students will be able to discuss the safety considerations involved in the construction, installation and maintenance of boilers and unfired pressure vessels.

Unit 6 General Requirements for Machine Guarding (4 Hours)

Important definitions for understanding machine guarding, such as point of operation (PO) and power transmission (PT) are discussed in detail. Students will be introduced to the common types of hazards associated with the PO and PT and will learn the variety of options available for safeguarding the PO

The student will be introduced to the types of industrial robots as well as their

common uses in industry. The basic components of industrial robots will be reviewed, along with a discussion of the working envelope of a robot. The common hazards associated with the operation of

Appendix C

Catalog Description

Course Title: SAFE 111 Principles of Safety I – General Industry

Prerequisites: SAFE 101

3 lecture hours

0 lab hours

3 credits

(3c-01-3cr)

Course Description: This course covers the fundamentals of safety in the general industry. It includes topics such as safety hazards, safety equipment, safety procedures, and safety regulations. The course is designed to provide students with the knowledge and skills necessary to work safely in a general industry environment.