07-54b. GWUCC App-4/8/08 Senate App-4/22/08

Course Deletion

Catalog Description Change

X Course Revision

Course Number and/or Title Change

This course is also proposed as a Liberal Studies course.

This course is also proposed as an Honors

Department Chair(s)

Liberal Studies

Honors College

Course Revision: SAFE 412 Hazard Prevention Management II

Part II. Description of the Curriculum Change

1. Syllabus of Record.

   The revised syllabus of record is attached in Appendix A

2. A summary of the proposed revisions:

   a. The course description, objectives and content were updated to better reflect program outcomes and to provide consistency with SAFE 212 Hazard Prevention Management I.

      The revised course description changes course prerequisites and focuses on safety management principles and implementation rather than the collection of loss incidents information (see below).

      New Course Description

      SAFE 412 Hazard Prevention Management II ——— 3 class hours

      Prerequisites: SAFE 212

      3 lab hours
      3 credit hours
      (2c-31-3cr)

      Designed to teach a systems-based approach to managing safety programs, hazards, and risk. Emphasis will be placed on understanding proactive approaches to conducting pre-hazard and life-cycle safety analyses of activities / operations and developing safety system documentation (e.g., policies, objectives, goals, performance measures, plans, committee charters, safety procedures, work procedures, audit plans, and accident investigation reports)

d. The course content in the following areas was removed from SAFE 412 and placed in SAFE 212:

[redacted]

effect sequencing and loss incident costs. In addition, the course content was reorganized to better reflect program outcomes and the revised content of SAFE 212. There is some duplication with SAFE 212 in terms of accident causation but this is necessary because of the importance and complexity of this content.

[redacted]

The sample course evaluation was changed by removing the requirement for course portfolios

[redacted]

[redacted]

D. Components of a Safety Management System – Documentation (Week 4)

- Policies
- Goals, objectives, targets, mission statements

- Administrative safety procedures
- Work procedures

E. Components of a Safety Management System – Planning (Weeks 5-8)

- Hazard recognition, evaluation and control

- Workplace design and engineering

F. Components of a Safety Management System – Implementation and and Operation (Weeks 9-11)

- Operational safety and health programs
- Training and orientation
- Behavior-based system approaches

G. Components of a Safety Management System – Evaluation and Corrective Action (Weeks 11-14)

- Inspections
- Accident investigations

F. Developing and tracking safety performance measures (Week 5)

[redacted]

G. Flow-charting an environmental event, a near-miss event, and/or an (Weeks 7-8)

V. Example Grading Scale

The grading scale is as follows:

B	80%-89%
C	70%-79%
D	60%-69%
F	< 60%

VI. Attendance Policy

As student learning is enhanced by regular attendance and participation in class discussions, the instructor expects all students to attend class. The attendance policy for this class follows the Undergraduate Course Attendance Policy which is included in the Undergraduate Catalog.

VII. Text

Historical Bibliographies:

Brassand, Michael. (1989). The Memory Jogger Plus: Featuring the Seven Management and Planning Tools. Methuen, MA: GOAL/QPC.

Coyle, Ian R., et al. (1995). Safety Climate. Journal of Safety Research 26 (4).

Fanning, F. (1998). Basic Safety Administration: A Handbook for the New Safety Officer. Des Plains, IL: American Society of Safety Engineers.

Make-A-Difference, Inc. (also companion Workbook and Discussion Workbook)

Krause, Thomas R., et al. (1990). The Behavior-based Safety Process: Managing Involvement for an Injury-free Culture. New York, NY: Van Nostrand Reinhold.

Wanna, 3rd ed. Belmont, CA: Lake Publishing.

Manuele, Fred A. (1995). Guidelines: Designing for Safety. (A technical paper from Marsh &

APPENDIX B: OLD SYLLABUS OF RECORD

I. Catalog Description

SAFE 412 Hazard Prevention Management II

2 class hours
3 lab hours

(2c-31-3cr)

Examine various safety management techniques to identify and prevent the occurrence of hazardous

4. Pareto Charts
5. Scatter Diagrams
6. Force Field Analysis
7. Universal Model
8. Pope's Systems Safety Management

C. [redacted] (2 hours)

1. [redacted]

2. Using Inspections
3. Measuring the Effectiveness of Programs

D. Cause Analysis of Hazardous Behavior (2 hours)

1. Hazardous Act Analysis Model
2. Causes of Hazardous Behavior
3. Hazardous Behavior Antecedents

E. [redacted] (2 hours)

1. [redacted]

I. Management Performance Evaluation (3 hours)

1. Data to Measure Individual Managers for Accountability Purposes

J. Loss Management Information Systems (3 hours)

1. Categories of Data from Loss Incident Investigations

2. Using Computer Program to Investigate and Analyze
3. Cost-Benefit Analysis

Culminating Activity (2 hours)

Title of Laboratory Exercises	# of Hours	Lecture Units Covered
Defining a System for Analysis	3	A,B,C
Developing Programs	3	A,B,C
Assessing Programs via Cause and Sequencing Analysis	3	B
Analyzing Hazardous Conditions	3	C
Analyzing Hazardous Behavior	3	D,E,F
Reinforcing Safe Behavior	3	D,E
Devising Training Programs	3	F
Creating Training Devices and Sessions	3	F
Analyzing Decisions via Cost/Benefit	3	G

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 for this course:

E. Examinations	40%
F. Homework	25%
G. Laboratory Reports	25%
H. Course Portfolio	5%
I. Class Participation	5%

Examinations: The examinations will be short answer, multiple choice, true/false and matching with

VIII. Special Resource Requirements

None

X. Bibliography

[redacted]

and Safety. December.

Wright, R. Loss Management: International Management Audit System and LOMIS Incident Report Code Manual. Toronto: Gulf Oil of Canada, Ltd.

Appendix C: Catalog Description

SAFE 412 Hazard Prevention Management II

2 class hours
3 lab hours
3 credit hours
(2c-31-3cr)

Prerequisites: SAFE 212

Designed to teach a systems-based approach to managing safety programs, hazards, and risk. Emphasis will be placed on understanding proactive approaches to conducting pre-hazard and life-cycle safety [redacted]

Appendix D

Program Outcomes was run on January 16, 2008. A summary of the assessment

st series of reports addressing program outcomes for the entire department. The

atcomes from individual SAPE courses.

Note: Percentages are

e Program Outcomes

will have demonstrated their ability to

control methods, procedures and programs.

e was met. 168 students were assessed using 4990 assessment tools and the

were target or accept

in rating was 2.3

anatomy, physiology and chemistry, including the ability to

ship.

Outcome was met. 10 students were assessed using 20 assessment tools and the

Outcome was not met. 127 students were assessed using 1995 assessment

acce

Outcome was met. 93 students were assessed using 93 assessment tools and

the results

2.2 Students will develop and evaluate a comprehensive SHE Program.

were target or acceptable and the mean rating was 2.1.

were target or acceptable was 2.1.

were 89.4 %

were target or acceptable and the mean rating was 2.6.

From: "Ramesh

Sent: Wednesday, April 02, 2008 11:09 AM

Subject: RE: Fw: SAFE 212 and 412

Ramesh:

hours), it is now 2 hours and will

Please let me know if you have any questions or concerns!