

City University of Hong Kong
Course Syllabus

offered by School of Energy and Environment
with effect from Semester A 2020/21

Part I Course Overview

Course Title: Environmental, Safety, and Occupational Health Management

Course Code: SEE2203

Course Duration: 1 semester

Credit Units: 3 credits

Level: B2

Arts and Humanities

Proposed Area:
(for GE courses only)

Study of Societies, Social and Business Organisations

Science and Technology

Medium of Instruction: English

Medium of Assessment: English

Prerequisites: BCH1100 Chemistry OR CHEM1300 Principles of General Chemistry; AND
(Course Code and Title) SEE1003 Introduction to Sustainable Energy and Environmental Engineering

Precursors: Nil
(Course Code and Title)

Equivalent Courses: Nil
(Course Code and Title)

Exclusive Courses: Nil
(Course Code and Title)

Part II Course Details

1. Abstract

(A 150-word description about the course)

This course aims to provide an understanding of environmental, safety and occupational health management. Building upon the fundamental principles of work place safety, students will learn how to manage a work place environment through a detailed environmental and safety framework with the aims of improving occupational safety and complying with local regulations. The ISO14000 series and the principles of life-cycle analysis for environmental management will also be introduced for broadening students' knowledge on environmental sustainability.

2. Course Intended Learning Outcomes (CILOs)

(CILOs state what the student is expected to be able to do at the end of the course according to a given standard of performance.)

No.	CILOs [#]	Weighting* (if applicable)	Discovery-enriched curriculum related learning outcomes (please tick where appropriate)		
			A1	A2	A3
1.	Describe the sources of environmental safety issue in the work place environment		✓		
2.	Explain the basic principles of environmental, safety and occupational health management			✓	
3.	Understand the role of local regulations in the work place safety and develop work place implementation plan			✓	✓
4.	Demonstrate the understanding of ISO14000-series framework and its relationship to environmental sustainability				✓
		100%			

* If weighting is assigned to CILOs, they should add up to 100%.

[#] Please specify the alignment of CILOs to the Gateway Education Programme Intended Learning outcomes (PILOs) in Section A of Annex.

A1: Attitude

Develop an attitude of discovery/innovation/creativity, as demonstrated by students possessing a strong sense of curiosity, asking questions actively, challenging assumptions or engaging in inquiry together with teachers.

A2: Ability

Develop the ability/skill needed to discover/innovate/create, as demonstrated by students possessing critical thinking skills to assess ideas, acquiring research skills, synthesizing knowledge across disciplines or applying academic knowledge to self-life problems.

A3: Accomplishments

Demonstrate accomplishment of discovery/innovation/creativity through producing /constructing creative works/new artefacts, effective solutions to real-life problems or new processes.

3. Teaching and Learning Activities (TLAs)

(TLAs designed to facilitate students' achievement of the CILOs.)

TLA	Brief Description	CILO No.				Hours/week (if applicable)
		1	2	3	4	
Lecture	Explain key concepts, such as principles related to environmental safety	✓	✓	✓	✓	3 hrs/wk
Group Project	Take on the roles of consulting teams and create a detailed implementation plan for improving work place safety	✓	✓	✓	✓	3 hrs/wk for 4 weeks

4. Assessment Tasks/Activities (ATs)

(ATs are designed to assess how well the students achieve the CILOs.)

Assessment Tasks/Activities	CILO No.				Weighting*	Remarks
	1	2	3	4		
Continuous Assessment: <u>70</u> %						
Assignment	✓	✓	✓	✓	30%	
Quiz	✓	✓	✓		20%	
Group Project	✓	✓	✓		20%	
Examination: <u>30</u> % (duration: 2 , if applicable)						
* The weightings should add up to 100%.					100%	

Examination duration: 2 hrs

Percentage of coursework, examination, etc.: 70% by coursework; 30% by exam

To pass a course, a student must do ALL of the following:

- 1) obtain at least 30% of the total marks allocated towards coursework (combination of assignments, pop quizzes, term paper, lab reports and/ or quiz, if applicable);
- 2) obtain at least 30% of the total marks allocated towards final examination (if applicable); and
- 3) meet the criteria listed in the section on Assessment Rubrics.

5. Assessment Rubrics

(Grading of student achievements is based on student performance in assessment tasks/activities with the following rubrics.)

Assessment Task	Criterion	Excellent (A+, A, A-)	Good (B+, B, B-)	Fair (C+, C, C-)	Marginal (D)	Failure (F)
1. Assignment	ABILITY to RESOLVE problems from various key concepts and principles	High	Significant	Moderate	Basic	Not even reaching marginal levels
2. Quiz	ABILITY to RESOLVE problems from various key concepts and principles	High	Significant	Moderate	Basic	Not even reaching marginal levels
3. Group Project	ABILITY to EXPLAIN in DETAIL and with ACCURACY for the methods and approaches used in the work place implementation plan	High	Significant	Moderate	Basic	Not even reaching marginal levels
4. Examination	ABILITY to RESOLVE problems from various key concepts and principles	High	Significant	Moderate	Basic	Not even reaching marginal levels

Part III Other Information (more details can be provided separately in the teaching plan)

1. Keyword Syllabus

(An indication of the key topics of the course.)

Fundamentals of occupational health
Industrial processes and hazard recognition
Management of safety and health programs
Emergency management
Local regulation
ISO14000 series
Life-cycle analysis
Construction safety and waste production

2. Reading List

2.1 Compulsory Readings

(Compulsory readings can include books, book chapters, or journal/magazine articles. There are also collections of e-books, e-journals available from the CityU Library.)

Nil

2.2 Additional Readings

(Additional references for students to learn to expand their knowledge about the subject.)

1.	Theodore, L. (2012). <i>Environmental Health and Hazard Risk Assessment: Principles and Calculations</i> . Boca Raton, FL: CRC Press.
2.	McAleenan, D. (2015). <i>ICE Manual of Health and Safety in Construction</i> . London: Institute of Civil Engineers Pub.
3.	Reese, C. (2012). <i>Accident/Incident Prevention</i> . Boca Raton: CRC Press.
4.	ISO 14001:2015 Environmental Management Systems -- Requirements with Guidance for Use