

**City University of Hong Kong**  
**offered by School of Energy and Environment**  
**with effect from Semester A 2022/23**

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**Part I Course Overview**

**Course Title:** Special Topics in Energy and Environment

**Course Code:** SEE8300

**Course Duration:** One semester (Semester B)

**Credit Units:** 3

**Level:** R8

**Medium of Instruction:** English

**Medium of Assessment:** English

**Prerequisites:** Nil

**Precursors:** Nil

**Equivalent Courses:** Nil

**Exclusive Courses:** Nil

## Part II Course Details

### 1. Abstract

This course provides training for environmental and energy doctoral students and presents them with an opportunity to study in-depth a topic parallel to their thesis, but must be new and not simply repeating the subject of the PhD. For example, a student may choose to learn a programming language, study a particular statistical methodology, learn about the principles of instrumentation, discover underlying chemical, biological, physical principles of relevance to their work or read literature in a field parallel or adjunct to the thesis topic, perhaps exploring social or cultural contexts of their work. This is not an exclusive list, but any doubts should be resolved with the course convenor prior to commencement. The short proposal for work in the area of study must submit the course convenor who will expect the student to defend the proposal in a 10-15 minute meeting. The reading and study plan needs to be approved by the examining panel at the start of the course. The examining panel will consist of the supervisor and another academic, probably drawn from the School, but could be from any Honk Kong university.

### 2. Course Intended Learning Outcomes (CILOs)

No.	CILOs	Weighting (if applicable)	Discovery-enriched curriculum related learning outcomes (please tick where appropriate)		
			A1	A2	A3
1.	To acquire the ability to plan a reading course in the selected topic, up to an expert level of knowledge, through self-study, reflective practice and guidance by the examining panel.	25	✓		
2.	To demonstrate an ability to understand the latest innovations and ideas at the cutting edge of knowledge, through literature studies, simulation, desk calculations, computer programs etc as appropriate.	35		✓	
3.	To be able to report and explain the selected area of knowledge, through written and oral means to the examining panel.	40		✓	✓
		100%			

**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)

TLA	Brief Description	CILO No.						Hours/week (if applicable)
		1	2	3	4			
	Writing/defending a brief proposal	✓						
	Planning reading	✓						
	Critical reading of the literature	✓	✓					
	Report writing and reflection		✓	✓				
	Defending the study outcomes		✓	✓				

### 4. Assessment Tasks/Activities (ATs)

Assessment Tasks/Activities	CILO No.						Weighting	Remarks
	1	2	3					
Continuous Assessment: <u>100%</u>								
Report	✓	✓	✓					Pass/Fail- no weighting
Presentation	✓	✓	✓					Pass/Fail- no weighting
Oral examination	✓	✓	✓					Pass/Fail- no weighting
Examination: <u>0%</u> (duration: 0 hour, if applicable)								
							100%	

Self-taught guided by a panel of two that includes supervisor. Students undertaking PhD study, but not in final year.

As this is a pass-fail course, students must pass all assessment tasks.

## 5. Assessment Rubrics

Assessment Task*	Criterion	Pass	Fail
1.Report	Student has written a clear report that addresses the breadth of the subject material with a degree of comprehensiveness and no major gaps.	Satisfactory report	Fails to write a satisfactory report
2. Presentation	Student gives a well-structured presentation that draws attention to key issues within the subject covered in the course reading.	Makes a well-structured presentation	Fails to give a well-structured presentation
3. Oral examination	Student is able to answer questions about the work that they have done in the course.	Adequate answers to the questions	Inadequate answers to the questions

\*As this is a pass-fail course students must pass both assessment tasks

### **Part III Other Information**

#### **1. Keyword Syllabus**

Nil

#### **2. Reading List**

##### **2.1 Compulsory Readings**

Nil

##### **2.2 Additional Readings**

1.	Entirely set by student
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## School of Energy and Environment

### Guidelines to SEE8300 Special Topics in Energy and Environment

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Each report will be examined by the Primary Supervisor and the Second Examiner and agreed as a pass. Otherwise the case will be referred to the committee for arbitration.

The report should normally contain the following sections:

- 1) **An introduction to the key literature that was used as part of the study, with the list of materials read (~1000 words).**
- 2) **A synthesis and evaluation of the important elements of the reading material (~1000)**
- 3) **A summary of the state-of –the-art or examples of what was achieved by the student during the study (~3000 words)**
- 4) **A reflection on what the student has gained from the course (~1000 words)**

The marking scheme is detailed in the SYL.