

COURSE SYLLABUS

- 1. Name of Curriculum:** Bachelor of Science (Biological Science)
Bachelor of Science (Environment)
Mahidol University International College
- 2. Course Code:** ICBI 257 / ICEN 392 **Course Title:** Environmental Issues: Past, Present and Future
- 3. Number of Credits:** 4 (Lecture/lab) (4 - 0)
- 4. Prerequisites:**
None
- 5. Type of Course:**
Elective for 2nd year students
- 6. Semester / Academic Year:**
Trimester 3
- 7. Course Description:**
An in-depth study of environmental issues e.g. Exxon Valdez and other oil spills; Bhopal and other chemical leaks; Chernobyl and other radiation leaks; ozone depletion; global warming; loss of biodiversity; deforestation; genetic engineering and GMOs; water issues; urban issues; includes contemporary and likely future environmental issues
- 8. Course Objectives:**
By the end of the course students should be able to describe and explain:
- how the environment is valued
 - the environmental effects of oil and chemical spills and radiation leaks
 - the environmental effects of ozone depletion and global warming
 - the loss of biodiversity and natural resources
 - genetic engineering and the worries concerning GMOs
 - the effects poverty has on the environment
 - likely future environmental concerns and issues

9. Course Outline

Class	Topic			Lecturer
	Lecture / Seminar	Hour	Lab	
1	Introduction: valuing the environment	2	-	Dr W. Phillips
2	Setting Environmental Targets	2	-	
3	Oil Spills and the Environment	2	-	
4	Chemical and Radiation Leaks and the Environment	2	-	
5	Ozone Depletion and the Environment	2	-	
6	Global Warming and the Environment	2	-	
7	Biodiversity and the Environment	4	-	
8	Deforestation and the Environment	4	-	

9	Natural Resources and the Environment	4			
10	Genetic Engineering, Genetically Modified Organisms (GMOs) and the Environment	4			
11	Water Issues and the Environment	4	-		
12	Urban Issues and the Environment	4	-		
13	Poverty and the Environment	4			
14	Presentations	4			

10. Teaching Methods:

Lectures, in-class case studies, discussion, self-study and student presentations.

11. Teaching Media:

Text and teaching materials, Powerpoint, handouts, case studies.

12. Course Achievement:

Assessment made from stated criteria: students with 85%+ obtain grade A

13. Course Evaluation:

1. Case studies (x4)	20%
2. Presentation	20%
3. Mid-term exam	30%
4. Final exam	30%

14. References:

Allin and McCleneghan, 2000. Encyclopedia of Environmental Issues. Salem Pr Inc
 Ison *et al*, 2002 Environmental Economics: Issues and Policies. Prentice Hall
 Hinchliffe, 2003. Understanding Environmental Issues. John Wiley and Sons Ltd
 Additional readings set by the instructor.

15. Instructor:

Dr Wayne Phillips

16. Course Coordinator:

Dr Wayne Phillips