Course Syllabus

1. **Program of Study** Bachelor of Science Program in Environment

Faculty/Institute/College Mahidol University International College, Faculty of Science, Faculty of Environment and Resource Studies (FERS), Mahidol University

2. Course Code ICEN 342 Course Title Environmental Pollution II

3. Number of Credits 4 (Lecture/Lab) (4-0)
4. Prerequisite (s) ICEN 342
5. Type of Course Required
6. Trimester / Academic Year Second / 2004

7. Course Description

Air, noise, solid waste, hazardous waste, and also radioactive pollution; types, sources, and effects of air and noise pollution; methods for prevention, control and measures of air and noise pollution; source, type, effect, and management of solid waste and hazardous waste; application of radioactivity, and management of radioactive waste.

8. Course Objective (s)

The purpose of this course is to give the students an overview of air, noise, solid waste, hazardous waste, and also radioactive pollution including methods for prevention, control, measures and management of the pollution.

9. Course Outline

Week	Topic				Transferration
	Lecture/Seminar	Hour	Lab	Hour	Instructor
1	Air Pollution	4	-		to be announced
2	Air pollution	4	-		
3	Noise Pollution	4	-		
4	Noise Pollution	4	-		
5	Solid Waste	4	-		
6	Solid Waste	4	-		
7	Hazardous Waste	4	-		
8	Hazardous Waste	4	-		
9	Hazardous Waste	4	-		
10	Remedial Technology	4	-		
11	Radioactive Waste	4			
	Total	44			

10. Teaching Method (s)

- 1. Lecture
- 2. Discussion
- 3. Self-Study

11. Teaching Media

- 1. Texts and Teaching Materials
- 2. Transparencies
- 3. Power Point Presentation

12. Measurement and evaluation of student achievement

Assessment made from the set-forward criteria. Student who gets 85% up, will have Grade A.

13. Course evaluation

midterm Examination
 Final Examination
 Class Participation
 10%

14. Reference (s)

- 1. Behar, A., Chasin, M. and Cheesman, M. 2000. Noise Control: A Primer. California: Singular Publishing Group.
- 2. Boubel, R.W., Fox, D.L., Turner, D.B. and Stern, A.C. xxxx. Fundamental of Air Pollution. 3rd Edition. Academic Press.
- 3. Cowan, J.P. 1994. Handbook of Environmental Acoustics. New York: Van Nostrand Reinhold.
- 4. Freeman, H.M. 1998. Standard Handbook of Hazardous Waste Treatment and Disposal. New York: McGraw Hill.
- 5. LaGrega, M.D., P.L. Buckingham, and J.C. Evans. 1994. Hazardous Waste Management. New York:McGraw Hill.
- 6. Smith, B.J., Peters, R.J. and Owen, S. 2001. Acoustic and Noise Control. 2nd edition. Essex: Longman Group.
- 7. Tchobanoglous, G., Thiensen, H., and Vigil, S. 1993. Intregrated Solid Waste Management. Singapore:McGraw Hill.
- 8. Turco, R.P. 1997. Earth under Siege: From Air Pollution to Global Change. New York: Oxford University Press.

15. Instructor (s)

Asst.Prof. Dr. Winai Nutmagul Asst.Prof. Auemphorn Mutchimwong Ajarn Bundit Channarong

16. Course Coordinator

Asst.Prof. Dr. Acharaporn Sungpetch