

CENG 4710 Environmental Control

Instructor: Prof. Xijun Hu (Rm 4559, Tel: 2358 7134)

Assessments:

Assignments:	20%
2 Quiz	10% each
Final Exam:	60%

Textbook:

M.D. LaGrega, P.L. Buckingham, and J.C. Evans, “*Hazardous Waste Management*”, 2nd ed., McGraw-Hill, New York, 2001.

Lecture Outlines

Week	Contents
	Pollution and Society
1	Environmental systems. Environmental awareness and government regulations with emphasis on the situation of Hong Kong
1	Classification of Pollutants and Selection of Treatment Technologies
2	Pollution Prevention
	Treatment Methods
	<u>Physical processes</u>
2,3	Air Stripping
4-7	Adsorption, Quiz 1
	<u>Chemical processes</u>
8,9	Chemical Oxidation, Supercritical Fluids
10-11	Wet Air Oxidation, Quiz 2
	<u>Biological Methods</u>
12,13	Basic Microbiology; Engineering Factors; Growth Kinetics
13	Activated Sludge Process Design