



جامعة الملك فهد للبترول والمعادن
King Fahd University of Petroleum & Minerals

Civil and Environmental Engineering Department
CE 330 – Environmental Engineering Principles
Course Content

Class: UTR 9:00 - 9:50 am 6-106

Instructors: Dr. Omar Al-Attas

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Catalog Data: Introduction to major environmental pollution issues; Analyses of water quality; Municipal solid waste management and disposal; Hazardous waste testing, management, and treatment; Air pollution characteristics, effects, measurements, control, meteorology, and dispersion; Noise pollution control; Introduction to wastewater testing, treatment and reuse; Environment Impact Assessment.

Text Book: Davis and Masten, Principles of Environmental Engineering and Science, Second Edition, McGraw, 2009.

Office Hours: Posted

Topic	Lectures	Date
Introduction (Chapter 1)	1	Sep. 01
Introduction to Environmental Engineering		
Material Balance (Chapter 4)	3	Sep. 03, 05, 08
Water Treatment (Chapter 10)	8	Sep. 10, 12, 15, 17, 19, 22, 24, 26
Introduction Coagulation and Flocculation Softening Sedimentation Filtration Disinfection		
1st Major Exam – October 7 -2013 (Monday)		
Wastewater Treatment (Chapter 11)	10	Sep. 29 Oct. 01, 03, 06, 08, 22, 24, 27, 29, 31
Introduction Primary Treatment Secondary Treatment Tertiary Treatment Advanced Treatment Sludge Management		

Topic	Lectures	Date
Air Pollution (Chapter)	6	Nov. 03, 05, 07, 10, 12, 14
Introduction and Fate of Air Pollutants Air Pollution Meteorology Atmospheric Dispersion Air Pollution Control		
2nd Major Exam – November 18-2012 (Monday)		
Solid Waste Management (Chapter)	5	Nov. 17, 19, 21, 24, 26
Introduction and Regulations Collection Transportation Disposal and Utilization		
Hazardous Waste Management (Chapter)	4	Nov. 28 Dec. 01, 03, 05
Introduction and Regulations Classification Treatment Technologies		
Noise Pollution (Chapter)	2	Dec. 08, 10
Introduction Effects Noise Control		
Environmental Impact Assessment (Handouts)	3	Dec. 12, 15, 17
Introduction Methods of Impact Identification		
Term-Paper Presentations	3	Dec. 19, 22, 24

Last day for dropping course(s) without permanent record.

Last day for dropping course(s) with a grade of (W) on 21/10/2013.

Last day for withdrawal from all courses with a grade of (W) on 13/11/2013.

Last day for withdrawal from all courses with a grade of (WP/WF) on 11/12/2013.

Grade Distribution

Assignment and Reports	10 %
Quizzes	5 %
Attendance	5 %
1 st Major Exam	15 %
2 nd Major Exam	20 %
Final Exam	30 %
Term Paper	15 %

Total

100 %