[A-3]COURSE SYLLABUS

1. Course Description (Approximately 100 words)

This course deals with Water Pollution, Major Sources of Water Pollution, Water Pollution Treatment and Soil Pollution. The chemicals that are emitted and how they can and the treatment Techniques.

2. Course Goals and Objectives (Approximately 100 words)

Critically discuss local and global environmental issues based on scientific principles and data.

Find and analyze physio-chemical and toxicological information and judge its reliability and significance.

Accurately portray, explain and interpret data calculation and present environmental scientific ideas and practices in writing.

3. Textbook (Title, Author, Publisher, Year of Publication, etc.)

Environmental ChemistryFeb 15, 2008 by Colin Baird and Michael Cann

4. Reference

Environmental Chemistry, Ninth EditionDec 17, 2009 by Stanley Manahan and Stanley E. Manahan

5. Course Requirements and Grades

EXAM 30%
EXAM 70%

6. Course Calendar

Week	Main Content
1	Water Pollution:Ground and subsurface water contamination
2	Water Pollution:Water pollution sources, Ground Water Pollution, Ocean Pol
3	Major Sources of Water Pollution: Eutrophication, Acid Mine Drains
4	Major Sources of Water Pollution:Pesticides and Fertilizers, Dying and Tann
5	Water Pollution Treatment: Introduction, Technological Approach
6	Water Pollution Treatment:Chemical Degradation of wastes and Chemicals,
7	Water Pollution Treatment:Photocatalytic degradation of pollutants,Supercrit
8	MID-TERM EXAM
9	Soil Pollution:Soil Around us, Soil Water Characteristics
10	Soil Pollution:Soil Erosion, Soil & Pollution
11	Soil Pollution:Water resources: Irrigation and Wetlands, Soil Pollution Manag
12	Soil Pollution:Nuclear Waste Management, Sewage Treatment, Solid Waste
13	REVISION
14	FINAL EXAMINATION