

TIMETABLE CH3041 SEMESTER 2 2007

Natural Environment Chemistry

<u>Week1</u>	Tue	P	Prac 1	Errors
30/7	Tue	L	lect1.ppt	Intro / Atmosphere structure, air
	Tue	T	No tutorial	-
	Tue	L	lect2.ppt	Ozone layer, form ⁿ , fluxes, CFCs
	Tue	L	lect3.ppt	Aerosols/Water/OH/Sources / sinks
<u>Week2</u>	Tue	P	Prac 2	Air sampling - NO _x , particulates
6/8	Tue	L	lect4.ppt	Hydrologic cycle, water quality
	Tue	T	tutorial1.doc	Air chemistry
	Tue	L	lect5.ppt	pH/Alkalinity/Carbonates/Hardness
	Wed	L	lect6.ppt	Speciation, DOC, River/Sea Ions, Al/Si
<u>Week3</u>	Tue	P	Prac 3	Water quality - pH, DO, cond., BOD
13/8	Tue	L	lect7.ppt	Redox, activity pE - pH diagrams
	Tue	T	tutorial2.doc	Water Chemistry A
	Tue	L	lect8.ppt	Freshwater – microbial chemistry, nutrients.
	Tue	L	lect9.ppt	Oceans - Estuaries/Cycling/minerals/nutrient
<u>Week4</u>	Tue	P	Prac 4	Water quality - BODII, hardness, solids
20/8	Tue	L	lect10.ppt	Interface Chemistry /Air / Sediment
	Tue	T	tutorial3.doc	Water Chemistry B
	Tue	L	lect11.ppt	Terrestrial Chemistry /mineral types
	Tue	L	lect12.ppt	Soil chemistry - horizons, weathering
<u>Week5</u>	Tue	P	Prac 5	Water quality - PO ₄
27/8	Tue	L	lect13.ppt	Soils – clays, CIA, complexation
	Tue	T	Essay overview	
	Tue	L	lect14.ppt	Soil - salinity, CEC, buffer capacity
	Wed	L	lect15.ppt	Geochemical cycles: N, P,S

Environmental analysis

<u>Week6</u>	Tue	P	Prac 6	Lab. Standards - acid, buffer; Ion exchange
3/9	Tue	L	lect16.ppt	Analytical Chem. - Transport, BCF, metals
	Tue	T	tutorial4.doc	Terrestrial Chemistry
	Tue	L	lect17.ppt	Sampling (air, water, sediment, soil)
	Tue	L	lect18.ppt	Extraction, Separation, Wet methods, Titrat ^{ns}
<u>Week7</u>	Tue	P	Prac 7	Food dyes & preservatives
10/9	Tue	L	lect19.ppt	Gravimetry, UV, Fluores, IR,AA.
	Tue	T	tutorial 5.doc	Analytical A
	Tue	L	lect20.ppt	Calib, S/N, IDL, Flow injec., E.chem sensors
	Tue	L	lect21.ppt	GC, HPLC

Pollution Chemistry

Week8	Tue	P	Prac 8	Stream: Field trip
17/9	Tue	L	lect22.ppt	IC, Toxicology
	Tue	T	tutorial6.doc	Analytical B
	Tue	L	lect23.ppt	Poisons, Energy Chemistry
	Tue	L	lect24.ppt	Nuclear Wastes, mine wastes

Semester Break (24/9 – 30/9)

Week9	Tue	P	Prac 9	Toxicology shrimps + afternoon sampling
1/10				
	Tue	L	lect25.ppt	16 Indoor air, Water pollution, ASSoils
	Tue	L	lect26.ppt	16 Acid sulphate soils East Trinity.
	Thu	L	lect27.ppt	15 Greenhouse chemistry
	Thu	T	tutorial7.doc	Toxicology, Nuclear and Energy chemistry
			Essay 1 Due 5/10	

Week10	Tue	P	Prac 10	Cairns Water Lab: Field trip
8/10	Tue	L	Test 1	
	Tue	L	lect28.ppt	16 Greenhouse modelling, London smog
	Tue	L	lect29.ppt	16 Photochemical smog, SEQRS
	Tue	L	lect30.ppt	16 Insecticides

Week11	Tue	P	Prac 11	Acid sulphate soil prac + remediation
15/10	Tue	L	lect31.ppt	16 Herbicides, PCB
	Tue	L	lect32.ppt	16 PCDF, dioxin, PAH, Toxic metals
	Tue	T	tutorial8.doc	Greenhouse, Smog, Water pollution, ASS
	Tue	L	lect33.ppt	15 Toxic metals – Pb, Hg

Week12	Tue	P	Prac 12	Water treatment: Field trip
22/10	Tue	L	lect34.ppt	16 Waste treatment – sewage, hazardous waste
	Tue	T	tutorial9.doc	Pesticides, PCB, Metals
	Tue	L	lect35.ppt	16 Toxic substances, Haz. waste treatment
	Tue	L	lect36.ppt	10 Waste disposal, recycling, remediation.

Week13	Tue	P	Tutorial exam	
29/10	Tue	L	tutorial revision(?)	
	Tue	T	-	
	Tue	L	-	
	Tue	L	-	
			Essay 2 Due 29/10	