Geology 203: Environmental Geochemistry and Analysis
Tentative Schedule
(subject to potentially major adjustments)

	Meetings	Project	Activities	Reading	What's Due?
Week 1 Sept. 2, 4	Tues. 9:55 Aft. lab Thurs. 9:55	Radon Gas	Radon Background Experimental Design	Bunce Ch. 4 Indoor Air Quality Harris Ch. 1: Basics Harris Ch. 2: Tools	
Week 2 Sept. 9, 11	Tues. 9:55 Aft. lab Thurs. 9:55	Lead in Soil	Design Pb Project Sample collection Sample processing: Get samples drying Lab check-in Introduction to units	Bunce Ch. 10.3: Lead Harris Ch. 3: Math Toolkit Gill Ch. 2: Sampling middle of p. 20-28	*Optional problem sets will be available during the first half of the term for a chance to refine your skills and for extra credit.*
Week 3 Sept. 16, 18	Tues. 9:55 Aft. lab Night lab Thurs. 9:55	Lead in Soil	Sample processing for Pb project Atomic Absorption Spectroscopy Lake Onondaga history assignment	Gill Ch. 3: to middle of p. 33 Harris Ch. 7: Light Harris Ch. 20: Atomic Spectroscopy (except 20-6)	
Week 4 Sept. 23, 25	Tues. 9:55 Aft. lab Night lab Thurs. 9:55	Lead in Soil Onondaga Lake	Complete lead analyses Meet with ENST 480 about Lake Onondaga Superfund Project Design of Sampling Scheme and Choice of Analytes	Gill Ch. 1: Geochemical Analysis Harris Ch. 4: Statistics Gill Ch. 2: Sampling p. 12-20	
Week 5 Sept. 30, Oct. 2	Tues. OR Thurs. from 9:55 until dark	Onondaga Lake sample collection	Onondaga Lake Sample collection Preliminary sample processing	Bunce Ch. 5, 7, 8, 9, 10 (do a first pass of these to figure out relevance to project)	
Week 6 Oct. 7, 9	Tues. 9:55 Aft. lab Night lab Thurs. 9:55	Onondaga Lake Superfund Project	Onondaga Lake Analysis of contaminants Metals, organics, nitrates	Bunce Ch. 8: Sewage Revisit Harris Ch. 7: Light	Retrieve radon detectors ***1st Exam this week.***
Week 7 Oct. 14, 16	Thurs. 9:55	***No class Tuesday*** (Fall Break) Onondaga Lake	Onondaga Lake Analysis of contaminants Metals, organics, nitrates analysis	Bunce Ch. 5: Water Bunce Ch. 7: Drinking water Gill Ch. 10: ICP-MS	**Pb project report due by Monday. Oct. 13th 12 PM;**

	Meetings	Project	Activities	Reading	What's Due?
Week 8 Oct. 21, 23	Tues. 9:55 Aft. lab Night lab Thurs. 9:55	Onondaga Lake Superfund Project	Onondaga Lake Analysis of contaminants Metals, organics, nitrates analysis	Bunce Ch. 9: Organics Harris Ch. 16: Principles of Chromatography Harris Ch. 17: Gas Chromatography 17-1	**Radon data report due by Thurs. Oct. 23rd 12 PM**
Week 9 Oct. 28, 30	Tues. 9:55 Aft. lab Night lab Thurs. 9:55	Onondaga Lake Superfund Project	Onondaga Lake Analysis of contaminants Metals, organics, nitrates analysis	Bunce Ch. 10: Metals	Check with me verbally about ideas for Independent Project
Week 10 Nov. 4, 6	Tues. 9:55 Aft. lab Night lab Thurs. 9:55	Onondaga Lake Superfund Project	Onondaga Lake Interpretation of Lake data and presentation for ENST 480	Use readings as appropriate references	**Independent Project Proposal due**, with list of all necessary materials and equipment
Week 11 Nov. 11, 13	Tues. 9:55 Aft. lab Night lab Thurs. 9:55	Independent Project	Project sample collection and processing	Use readings as appropriate references	
Week 12 Nov. 18, 20	Tues. 9:55 Aft. lab Night lab	Independent Project	Group work on final projects Meeting with ENST 480 to discuss remediation proposals	Use readings as appropriate references	
Week 13 Nov. 25, 27	Tues. 9:55	***No class*** Thursday: Happy Thanksgiving!			**Superfund Lake lab report due Tues. Nov. 25th 12 PM** ***Should Lake Onondaga be designated as a Superfund site?***
Week 14 Dec. 2, 4	Tues. 9:55 Aft. lab Night lab Thurs. 9:55	Independent Project	Group work on final projects		
Week 15 Dec. 10, 12	Tues. 9:55 Aft. lab Night lab	Independent Project	Group work on final projects		
Finals Week			Presentations of final projects		**Final independent project report due at final exam**