

# **Pollution of Aquatic Ecosystems (Bio 7356)**

## **Fall 2007**

Aug	23	Introduction
		Water Characteristics & Water Cycle
	28	<b>Dr. Longley gone to NPS Workshop</b>
	30	Surface H <sub>2</sub> O Environments
		Water Treatment
Sep	4	Wastewater Treatment
		Chlorination & other Treatment methods
	6	<b>San Marcos Treatment Plants tours</b>
	11	Species Diversity
		Watershed TMDL studies
	13	<b>Trip to Austin Water &amp; WWTPs</b>
	18	Lab Biological Methods
		Biological Methods – Sampling
	20	<b>Go to Field Blanco River Methods Flow &amp; Biological</b>
	25	Dr. Longley out of Town
	27	Groundwater Hydrogeology Principles
Oct	2	<b>Exam 1</b>
	4	Overview of Lab Methods Pesticides & Metals
	9	Bacterial Source Tracking
	11	Biomonitoring – Rapid Bioassessment Techniques
	16	<b>Atty. Brad Castleberry talk on Texas Water Law</b>
	18	Arc Hydro
	19	<b>Houston Field Trip</b>
	23	Arc Hydro
	30	Basins Models
Nov	1	Work on Projects
	6	Basins Models
	8	Work on Projects
	13	Giardia/Cryptosporidium
	15	Presentation of Projects
	20	Review
Dec	11	<b>Final Exam 11:00 -1:30</b>

## BIO 7356 COURSE: **Pollution of Aquatic Ecosystems**

**This course provides the graduate student in Aquatic Resources information regarding the most recent trends and methods for investigating changes in water quality and how Water & Wastewater Treatment take place.**

PLACE: FAB Room 130  
TERM: Fall 2007  
INSTRUCTOR: Dr. Glenn Longley, Professor  
OFFICE: Freeman Bldg. 248  
OFFICE HOURS: 12-1 W. or at other times (make arrangements after class)  
e-mail: [GL01@txstate.edu](mailto:GL01@txstate.edu) (please use this)  
Off. Phone 245-3581  
CLASS TIME: 12:30 – 1:30 T TH Lab by Arrangement (usually TH 12:30 – 5)

TEXT:  
No required text, latest articles and manuals from TCEQ will be used to review latest techniques.

### **ABSENCE POLICY:**

Poor attendance in class is one cause of poor understanding of the course material. Each student is allowed three (1) excused absence during the semester. Additional absences may result in a reduction in the student's Final Average.

### **ARRIVING LATE TO CLASS:**

A student will be counted as absent if he/she arrives after roll has been taken. You should "get going" early enough to arrive to class on time by avoiding the late bus, the train blocking the crossing, or the lack of a close parking place.

### **LEAVING CLASS EARLY:**

Students are expected not to leave class during the lecture except for an emergency or through prior arrangements with the instructor. If a student must leave class early, it is his/her responsibility to inform the instructor at the beginning of the class period. Failure to abide by this policy may result in a **letter grade lower** for the class final average.

### **EXAMS:**

There will be one lecture exam during the semester and a final exam. **Do not request an exam at any other date, no exceptions.** Exams will cover material assigned since last exam! Final exam is not comprehensive. Exams are kept 1 semester or summer session after taken. Grades are kept on file for two years. Final Lab Project and Presentation will count for 1/3 of Class Grade.

### **MAKE-UP EXAMS:**

**There will be no make-up examinations.** The final grade will be computed on the average of your other grades.

### **COURSE DROP GRADE:**

A student dropping the course after the date for an automatic W grade will receive a

W grade if their class average at the time of the drop is > 60 or an F grade if their class average is < 60. **Students should drop a class only after they have discussed the issue with their instructor**

**EVALUATION: Based on an average of two exams & project.**

**Lecture**

I require that students get an account with the TX State Computer Center, so they can receive e-mail and class information. I will also make assignments requiring access to the internet. I may distribute grades by e-mail. Certain study materials will be available only by access on the computer. Go to the TX State Academic Computing Center and request an account and they will assign a Username and a password, which you will change to your own at first use. If you have a modem and computer at home, you will be able to do much work from there. If you have a fast computer & modem request a Kerberos Account also, this will allow you to receive graphics. Computers are also available at the Alkek Library and other campus locations. My email address is: [GL01@txstate.edu](mailto:GL01@txstate.edu) Send me email with your questions and I will answer them ASAP. **You must have your Texas State email address. The only email addresses that I will utilize are TXSTATE email addresses. You can access TXSTATE webmail from anywhere.**

**WITHDRAWAL DEADLINE: See Class Schedule.**

**Drops after that date – grade assigned is grade you have in class (no exams dropped).**