BIOL 4710: Aquatic Toxicology (4 credits)

Instructor:

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Grade Calculation & Distribution: Final grades will be based on a percentage of your cumulative points relative to the total points possible. See below chart.

Grade Calculation			
Type	Points	Letter	Percentage
Exam 1	100	A	90-100%
Exam 2	100	B	80-89%
Exam 3	100	C	70-79%
Oral Presentation	50	D	60-69%
Journal Articles	50	F	≤ 59%
Participation & In-Class Assignments	50		
Laboratory	150		
Total	600		

Attendance: Attendance in this course is absolutely required. Students should be seated at the beginning of class. If you are late, your attendance may not be acknowledged. The student is responsible for all material missed regardless of the reason for absences. If you have three unexcused absences from lecture your grade will drop one letter grade. Each absence above three will result in another drop in letter grade. Three or more absences from laboratory will result in a drop in letter grade.

Procedure for exams:

No books, electronic devices, or notebooks will be allowed during exams. Students using such items will be asked to leave and will receive a zero for the exam.
No talking will be allowed during the exam, but students are permitted to ask the instructor questions.
Each student will be given an exam to be completed and handed back to the instructor.
Students will take the exam during the stated lecture time only.

Privacy Act (FERPA): The Family Educational Rights and Privacy Act (FERPA) prohibit the public posting of grades by social security number or in any manner personally identifiable to the individual student. No grades can be given by email or over the telephone, as positive identification cannot be made by this manner.

Disruptive behavior: No disruptive behavior of any kind will be tolerated in this course. Students should restrict talking and discussion to pertinent questions related to course material and these questions should be directed toward the instructor. Entering a classroom late or leaving early are discouraged. Any student disrupting lectures will be required to leave the classroom. Use of cellular telephones, pagers, or any similar remote communication device is prohibited during scheduled lectures or examinations. If students bring cellular telephones or similar devices to lecture, it is their responsibility to switch them off prior to the beginning of the lecture period.

Students with Disabilities: Students requesting classroom accommodations or modifications because of a documented disability must contact the Access Office for Students with Disabilities located in room 1115 Nevins Hall. The phone number is (229) 245-2498.

Cheating: he assignment in question and will be reported to the Dean of Students.

Tentative Schedule:

Date	Lecture Topics
8/19 (T)	Introduction; History of Aquatic Toxicology;

	Lab 1: Using Pipettors; Accuracy and Precision, Making Solutions
8/26 (T)	Classes of toxicants; Physical contaminants **Lab 2**: Making Testing Waters
8/28 (TH)	Nutrients and Biological Contaminants **Lab 3**: Water quality measurements
9/2 (T)	PCBs; PAHs; **Lab 3**: Water quality measurements;
9/4 (TH)	Pesticides **Lab 3**: Collect water & measure water quality at One Mile Branch ***Lab 4:** Autoclave: water, Erlenmeyer flasks, and nutrient media for next lab
9/9 (T)	*Journal Article 1*; Review for Exam 1 ***Lab 4**: Toxicity Test with *Selenastrum capricornutum*
9/11 (TH)	**EXAM 1** ***Lab 4**: Toxicity Test with *Selenastrum capricornutum*
9/16 (T)	Estrogenic compounds; Metal Homeostasis ***Lab 4**: Toxicity Test with *Selenastrum capricornutum*
9/18 (TH)	Aqueous metal toxicity ***Lab 4**: Toxicity Test with *Selenastrum capricornutum*
9/23 (T)	Aqueous metal toxicity continued ***Lab 4**: Toxicity Test with *Selenastrum capricornutum*
9/25 (TH)	Dietary metal toxicity **Lab 5**: Using Atomic Absorption spectrophotometer
9/30 (T)	Dietary metal toxicity continued ***Lab 6**: Toxicity Test with *Daphnia magna*
10/2 (TH)	Metal fate and transfer; *Journal Article 2* ***Lab 6**: Toxicity Test with *Daphnia magna*
10/7 (T)	NanoparticlesLa ***Lab [ )]TJ ETQ3 Tm0 g[(Lab)-3TJ 1 0 EMC q99271 47731 47922 276 re W n /P98784 39247 04**

11/27 (TH)	**THANKSGIVING BREAK**
12/2 (T)	***Four presentations***
12/4 (TH)	***Four presentations***
12/11 (TH)	