

Outline for Introductory Limnology--Biol. 326, 526 Fall 2009
We will meet in HS 56 for both lab and lecture.

Instructor: Dr Robert Pillsbury

Office: HS 41

Office Hours: Monday 9:00-10:30, Tuesday 1:00-3:00 pm, or by appointment.

Phone: 424-3069

email: pillsbur@uwosh.edu

Tentative Schedule:

Week 1

Sept 9 Lec. Introduction, Aquatic habitats

Sept 9 Lab. Introduction to limnology equipment and aquatic research center

Week 2

Sept 14 Lec. Bacteria/ blue-green algae

Sept 16 Lec. Phytoplankton

Sept 16 Lab- Set up stream lab experiment?

Sept 19 Overnight field trip to Trout Lake Biology Station?
-Write report on lake profiles.

Week 3

Sept 21 Lec. Zooplankton

Sept 23 Lec. No lecture today

Sept 23 Lab No lab today.

Week 4

Sept 28 Lec. Benthos/Fish

Sept 30 Lec Trophic Levels

Sept 30 Lab Set up nutrient limitation experiment.

-Lake profile report due.

Week 5

Oct 5 Lec. River Continuum

Oct 7 Lake Formation

Oct 7 Lab. 24 h study on lake chemistry-report required*

-examine aquatic plants collected

Week 6

Oct 12 Hydrologic cycle

Oct. 14 Lec. Exam 1

Oct. 14 Lab. Examine invertebrates and algae. Lake profile report due.

Week 7

Oct. 19 Lec. Hydrologic cycle

Oct. 21 Lec. video

Oct. 21 Lab. BOD experiment. 24-hour report due. Calculate water budgets.

Week 8

Oct 26 Lec. Properties of water (heat and light)

Oct 28 Lec. pH and the carbonate cycle
Oct 28 Lab. Collect data for stream lab experiment and examine results.-report required.

Week 9

Nov 2 Lec. Phosphorus
Nov 4 Lec. Nitrogen
Nov 4 Lab. examine data from nutrient limitation experiment.

Week 10

Nov 9 Lec. Other nutrients
Nov 11 Lec. Dissolved Organic Carbon
Nov 11 Lab. Bioassay-report required.

Week 11

Nov 16 Lec. Paleolimnology
Nov 18 Lec. Wetlands and marine systems
Nov 18 Lab Exam

Week 12

Nov 23 Lec. Pollution
Thanksgiving Break!

Week 13

Nov 30 Lec. Exotics
Dec 2 Lab open lab time

Week 14

Dec 7 Lec. Wastewater treatment
Dec 9 Management of Lake systems
Dec 9 TBA

Week 15

Dec 14 Lec. Artificial Lakes and wetlands
Dec 16 Final exam.

Class evaluation

Exam I	100	
Lab exam	50	
Reports/presentations	100	---33.3 points for each group presentation
Final exam	100	
Class participation	30	--includes a problem set or two.
Total	380	

For Graduate students: An 10 page term paper on an approved limnology topic is required for an additional 50 points. If time permits, these reports may be presented to the class.

% Point total	Grades
90-100%	A
88-89%	A-

87-88%	B+
80-86%	B
78-79%	B-
77-78%	C+
70-76%	C
68-69%	C-
67-88%	D+
60-66%	D
58-69%	D-
<58%	F