

Limnology Laboratory (Autumn 2010)

INSTRUCTOR: Daniel Schindler, 320A Fishery Sciences, deschind@u.washington.edu
OFFICE HOURS: F 10:00-11:30 or by appointment

TEACHING ASSISTANTS:

Brooks Miner, 442 Kincaid Hall, miner@uw.edu, OFFICE HOURS: Tues 3:00-4:00

Peter Lisi, 358A Fishery Sciences, pjlisi@uw.edu, 221-6884, OFFICE HOURS: Tues 1:00-2:30

LABS: M or W (2:30 – 5:20) in FTR 124

Biology/Fish 475 (*Limnology Lab*) provides an overview of some of the basic methods used to characterize the physical, chemical and biological structure of lakes, and introduces some of the biota common to lakes in the Pacific Northwest. This course is taught in conjunction with Biology 473 (Limnology) and students are expected to use the material from Biology 473 to fulfill the requirements of Biology 475. An important goal of this course is to teach students how to communicate the results of ecological studies in a format that is required for scientific publication.

One important component of this course is a **weekend field trip** to British Columbia on Oct. 22-24. It is important that you try to attend the field trip as much of the remainder of the course builds from activities during this weekend. If you can not attend this trip please notify one of the instructors by the second week of class. Students will be required to pay for their own meals at the UBC Research Forest on the field trip. This money (~55\$) will be collected by the TA before leaving. Housing and transportation on the field trip are paid for by the lab fees.

GRADING SCHEME:

Your grade will be based on your performance on a combination of in-lab exercises and one written paper. A large component of your grade is based on the paper so pay attention to the details that we expect in the writing and formatting of yours. They must conform to standard scientific paper format.

	Percent of final grade	Due Date
IN-LAB EXERCISES:		
Computer lab	10	October 18/20
Physical models of lakes	20	October 25/27
Zooplankton vertical migration	10	November 15/17
Benthic insect communities	15	December 10
PAPER:		
Draft of Methods and Results	10	Nov. 24
Size-selective predation paper	35	December 6

SYLLABUS

DATE	TOPIC
October 4/6	Introduction and course overview/expectations
October 11/13	Physical models of lake stratification and mixing
October 18/20	Computer lab in 207 Fishery Sciences (main building) (note that Monday lab will meet at 3:30-5:30)
Oct. 22-24	Weekend field trip to UBC Research Forest (will leave Fisheries parking lot at about 3:30 Friday)
October 25/27	No lab in lieu of weekend field trip
November 1/3	Zooplankton vertical migration
November 8/10	Zooplankton community structure Size-selective predation experiment
November 15/17	Fish predation and benthic insect community composition
November 22/24	Thanksgiving week, writing workshop
November 29/ Dec. 1	Benthic insects and organic matter distributions in lakes
December 10	Hand in final assignment on Benthic community composition
