

## Lecture Schedule

Date	Topic	Reading
T Sept. 5 R Sept. 7	Water, water everywhere Lakes in the landscape	Dodson 1, Forbes 1887 Dodson 11
T Sept. 12 R Sept. 14	Physics and ions of water Light	Dodson 2 Dodson 2
T Sept. 19 R Sept. 21	Heat Water movement	Dodson 2 Dodson 2
T Sept. 26 R Sept. 28	O, C, pH, alkalinity Rivers and streams	Dodson 2, 10 Dodson 11
T Oct. 3 R Oct. 5	Monday schedule; no class Exam 1 - In class	Go to lab!!
T Oct. 10 R Oct. 12	Diversity: single-celled & colonial organisms Diversity: invertebrates	Dodson 3 Dodson 4
T Oct. 17 R Oct. 19	Diversity: more inverts, fish, & birds Reading Days; no class	Dodson 5
T Oct. 24 R Oct. 26	Population dynamics: phytoplankton Nutrient dynamics	Dodson 6 Dodson 10
T Oct. 31 R Nov. 2	Population dynamics: zooplankton Life history evolution	Dodson 6 Dodson 6
T Nov. 7 R. Nov. 9	Exam 2 - In class Community ecology: competition & predation	Dodson 7
T Nov. 14 R Nov. 16	Community ecology: parasitism Energy flow and food webs	Dodson 7 Dodson 9, Pace et al. 1999

This schedule is tentative and subject to change (with notice!)

Date	Topic	Reading
T Nov 21 R Nov. 23	Lake classification and eutrophication Thanksgiving; no class	Dodson 10, Smith et al. 1999
T Nov. 28 R Nov. 30	Ecological stoichiometry Paleolimnology	Dodson 10, Elser et al. 1996 Dodson 11, Davis 1969
T Dec. 5 R Dec. 7	Alien invasions Killer lakes	Dodson 8, Mills et al. 1993
T Dec. 12	Conclusions	
TBA (Dec. 15-21)	Final Exam	

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## Lab Schedule

*Earth and sky, woods and fields, lakes and rivers, the mountain and the sea, are excellent schoolmasters, and teach some of us more than we can ever learn from books.*

John Lubbock (1834-1913)

Date	Topic
M Sept. 11	Introduction to the Zuck Arboretum Ponds: morphometry, water chemistry, basic sampling methods
M Sept. 18	More at the Zuck Ponds: primary productivity
M Sept. 25	Still more at the Zuck Ponds: turtles and fish
T Oct. 3	Stream sampling: invertebrate taxonomy and Index of Biological Integrity
	<i>note: This is a TUESDAY!</i>
M Oct. 9	Visit to the Great Swamp Wildlife Refuge
M Oct. 16	Lake Hopatcong (or Swartswood Lake?)
M Oct. 23	Phytoplankton: sinking rates, pigments, growth rates
M Oct. 30	Zooplankton: introductions
M Nov. 6	Zooplankton: behavior and physiology
M Nov. 13	Size-selective predation
M Nov. 20	Lake models
M Nov 27	Wildcard!
M Dec. 4	Paleolimnology
M Dec. 11	Friday schedule; no lab

Weather and organisms are unpredictable; as a result, this schedule **will** change. Unless told otherwise, we will meet in HS-105 at the start of all labs.