

COURSE SCHEDULE

Ecology of Inland Waters and Estuaries

Biology 434, Fall 1999

(T, Th: 0930-1045)

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DATE	SUBJECT	READING
31 Aug	Introduction to course; introduction to the study of the aquatic environment	Chapters 1, 2
02 Sep	Properties of water	Chapter 3
07, 09 Sep	Solar radiation and water	Chapter 3
14, 16 Sep	Thermal and density relationships	Chapter 4
21, 23 Sep	Water movements: tides, waves, currents	Chapter 5
28 Sep	Exam 1	
30 Sep	Water movements: tides, waves, currents (continued)	Chapter 5
05, 07 Oct	Dissolved gases: oxygen	Chapter 7
12, 14 Oct	Dissolved gases: carbon dioxide, pH, alkalinity [12 Oct, Research report topic due]	Chapter 7
19, 21 Oct	Dissolved substances: major ions, salinity, redox	Chapters 6, 10
26, 28 Oct	Dissolved substances: nitrogen and phosphorus	Chapters 8, 9
02 Nov	Exam 2	
04 Nov	Origins of lakes and other freshwater water bodies and estuaries; morphometric characteristics of water bodies [Research report outline and bibliography due]	Chapters 20, 21
09 Nov	Aquatic organisms and adaptations to freshwater and estuarine environments	Chapter 11
11 Nov	Primary production	Chapter 15
16, 18 Nov	Aquatic communities: plankton	Chpts. 12, 13, 15
23 Nov	Aquatic communities: nekton	Chapter 14
25 Nov	Thanksgiving recess, no class	

DATE	SUBJECT	READING
30 Nov	Trophic dynamics	Chapter 15
02 Dec	Aquatic ecosystems: littoral and benthic [Research report due]	Chapters 12, 13
07 Dec	Aquatic ecosystems: rivers	Chapters 16, 17
09 Dec	Aquatic ecosystems: estuaries	Chapters 18, 19
14 Dec	Final, 0800-1000	

Note that the schedule is subject to change with notification.

Required Text:

Horne, A.J. and C.R. Goldman. 1994. *Limnology Second Edition*. McGraw-Hill, Inc., New York, NY. 576 pp.

Supplemental Reading:

References to supplement the text will be announced and placed on reserve in the Burritt Library throughout the semester.