

Morphology of Non-Vascular Plants
“A potpourri of diversity from the cyanobacteria, protists, fungi, and plants”

Spring 2009

Biology 4380/8386

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Lecture: AH 309 (TR 11:30-12:45)
 Lab: AH223 (F 1-3:50)
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Dates	Lecture/Discussion	Lab
Jan. 12-16	Introduction and prokaryotes, especially the cyanobacteria	CYANOBACTERIA
Jan. 19	<i>Martin Luther King, Jr. Day</i>	NO CLASSES
Jan. 20-23	Algal Protists: Minor Groups	CHRYSOPHYTES, EUGLENOIDS, DINOFLAGELLATES
Jan. 26-30	Algal Protists: Green Algae	CHLOROPHYTES
Feb. 2-6	Algal Protists: Brown Algae	PHAEOPHYTES
Feb. 9-13	<i>Paper Discussion I</i> Test No. 1	Lab Test #1
Feb. 16-20	Algal Protists: Red Algae	RHODOPHYTES
Feb. 23-27	Fungal Protists: Slime Mold Groups, Oomycetes	SLIME MOLD GROUPS
Mar. 2-6	Fungal Protists, Oomycetes (cont.), Chytrids, Hyphochytrids, and Zygomycetes	OOMYCTES CHYTRIDS, HYPHOCHYTRIDS, ZYGOMYCETES
Mar. 9-13	Fungi: Ascomycetes	ASCOMYCETES
Mar. 14-22	<i>SPRING VACATION</i>	NO CLASS
Mar. 23-27	<i>Paper Discussion II</i> Test #2	Lab Test #2
Mar. 30 – Apr. 3	Lichen-Forming Fungi	LICHENS

Apr. 6-10	Fungi: Fungi Imperfecti and Basidiomycetes	BASIDIOMYCETES and DEUTEROMYCETES
Apr. 13-17	Bryophyta: Liverworts and Hornworts	LIVERWORTS and HORNWORTS
Apr. 20-24	Bryophyta: Mosses	MOSSES
Apr. 27-May 1	<i>Paper Discussion III</i> Review and/or Grad Presentations	Lab Practical #3

Thursday, May 7, FINAL EXAMINATION, 11:30 am - 1:30 pm (100 points)

THERE IS NO TEXT AT BOOKSTORE. I will distribute textbooks for your use. These are “loaners” from colleagues around the country and are to be RETURNED TO ME at the end of the semester. Other texts will be available in the lab for review/use at any time. Please do not remove any of these books without permission. There are voluminous resources on the Internet. Make use of it during the semester!

Grading: The final grades in the course will be based on the following:

Test 1	100 points
Lab Practical #1	100 points
Test 2	100 points
Lab Practical #2	100 points
Lab Practical #3	100 points
Final Exam	100 points
Discussion, attendance, etc...	50 points
TOTAL	650 points

Paper Discussions:

During the semester we will read and discuss 3 original articles from the literature and explore the WWW relating to that topic. One paper will be on “algae”, one on “fungi” and a third on “bryophytes.” General questions from these readings will be on each of the exams, and **active participation** in the discussions and WWW searching will be, in part, the basis for the assignment of the 50 points for “discussion and attendance” as indicated above.

Graduate Students: Graduate students will be expected to perform at a higher level on all examinations and will be required to present a short 20-30 minute PowerPoint presentation to the class on some aspect of the biology of non-vascular plants (50 points). Graduate students will also be expected to be major “leaders” in the discussion of the various literature articles read in class.