

Algal & Bryophyte Morphology PBIO 307/507

Professor: Dr. Morgan Vis
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 Office Hours: By Appointment
 Teaching Assist. Jason Zalack (jz165804@ohio.edu)
 Lecture & Lab: M, W 12:10-3:00 pm; F 1:10-3 pm Rm. 305 Porter Hall
 Text: *Algae* (ISBN 0-13-660333-5)
Moss of the Great Lakes Region (ISBN 73-620129)

UG Grading:	10pts	Algal Collection
	20pts	Moss Web page
	20pts	Bryophyte Collection
	15pts	Discussion
	10pts	Class participation
	25pts	Algae Exam
	25pts	Bryophyte Exam
	25pts	Final Lab Practical (Algae & Bryophytes)
	150pts	Total
GS Grading:	10pts	Algal Collection
	10pts	Moss Web page
	20pts	Bryophyte Collection
	20pts	Discussion
	40pts	Presentations
	25pts	Algae Exam
	25pts	Bryophyte Exam
	25pts	Final Lab Practical (Algae & Bryophytes)
175pts	Total	

Grading Scale	93-100%	A	90-92%	A-	80-82%	B-
	87-89%	B+	83-86%	B	70-72%	C-
	77-79%	C+	73-76%	C	60-62%	D-
	67-69%	D+	63-66%	D		
	<60%	F				

Exam Dates: Algae Exam Friday April 28th
 Bryophyte Exam Friday May 26th
 Final Exam Friday June 9th 2:50-4:50pm

Dishonesty: University policy will be followed and violations will result in a lowered or failing grade.

Absences: University policy will be followed. Students are expected to attend all class sessions. Missed work may not be made up without adequate proof of legitimate absence as defined by Ohio University.

Websites: <http://vis-pc.plantbio.ohiou.edu/algaeindex.htm> (Algae Homepage)
<http://vis-pc.plantbio.ohiou.edu/moss/bryophyte.htm> (Bryophyte Homepage)

Course Calendar (**subject to change**)

Week	Date	Topic
1	Mar 27	Introduction- Algae – Endosymbiotic theory Chapters 1, 7 (Algae); microscopic life VHS video
	Mar 29	Laboratory- Moss and Algae habitats close to campus** start lab notebook & id. key
	Mar 31	Cyanobacteria & prochlorophytes Chapter 6 (Algae)
2	April 3	Discussion-The species concept for prokaryotes (primary literature papers) Green Algae I & II Chapters 17, 18 (Algae)
	April 5	Laboratory- Cyanobacterial morphology; algal collections
	April 7	VHS Video – <i>Caulerpa</i> & primary literature update
3	April 10	Green Algae III & IV Chapters 19, 20 (Algae); DVD Oedogoniales
	April 12	Lab- Morphology & Life cycles of greens; algal collections
	April 14	Green Algae V Chapter 21 (Algae) Discussion-primary literature-origin of land plants
4	April 17	Euglenoids, Dinoflagellates, Tribophyceans Chapters 8, 11 & part of 15 (Algae)
	April 19	Special presentation 12:10 Irvine hall (Sarah Stewart) Lab- Commonly collected algae in freshwater habitats; algal collections
	April 21	TBA (time to work on assignments ie. algal collection or bryophyte webpage)
5	April 24	Red algae Chapter 16 (Algae) Lab –freshwater reds & their life cycle; algal collections
	April 26	Diatoms Chapter 12 (Algae); DVD – Diatoms; Review; Finish Algal collections-Due 3pm
	April 28	Algal Exam
6	May 1	Algal Presentation by Graduate Students
	May 3	Lab-Field Trip to Collect Bryophytes **
	May 5	Introduction to the Bryophytes; Lab-Diversity of Bryophyte morphologies
7	May 8	Subclass Sphagnidae (Peat Mosses) + Lantern & Bug mosses Subclass Bryidae (Hair Cap & Four-toothed Mosses); Lab-Field Trip to Collect Bryophytes**
	May 10	Subclass Bryidae (<i>Mnium</i> & relatives) (<i>Hypnum</i> & related mosses); Lab - identification
	May 12	Discussion - Bryogeography and conservation of bryophytes; phylogeography papers
8	May 15	Lab- Identification of Bryophytes
	May 17	Hepatics (Liverworts); Hornworts; Discussion – phylogeny of Bryophytes/land plants
	May 19	Discussion – Peatlands: ecosystems dominated by bryophytes; Role of bryophytes-dominated ecosystems in the global carbon budget; Bryophyte Webpage Due
9	May 22	Lab- Identification of Bryophytes; Critique Bryophyte Webpages
	May 24	Discussion – sporophyte/gametophyte issues; review; Id bryophytes if time
	May 26	Bryophyte Exam
10	May 29	NO CLASS
	May 31	Bryophyte presentations by Graduate Students
	June 2	Review for Final Exam; Bryophyte Collection Due at 3pm
Finals	June 9	Final Exam 2:50-4:50

**** Please dress appropriately; assume that you will get wet and/or dirty!!**