

**Algal & Bryophyte Morphology**  
**PBIO 307**

Professor: Dr. Morgan Vis  
 Office: 400 Porter Hall  
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 Office Hours: By Appointment or immediately after class  
 Lecture & Lab: MW 8:10-10:00 am; T 1:10-5 pm Rm. 305 Porter Hall

Text: *Moss of the Great Lakes Region* by Crum (ISBN 73-620129) **required**  
*Bryophyte Biology* by Shaw & Goffinet (ISBN 0 521 667941) **required**  
*Mosses and other bryophytes: An illustrated Glossary* by Malcolm & Malcolm (0 473 06730 7) **recommended**

Grading:	5%	Laboratory Notebook
	5%	Moss Web page
	15%	Bryophyte Collection
	15%	Class Participation
	25%	Algae Exam (includes laboratory)
	35%	Bryophyte Exam (includes moss identification)
	100%	Total

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

Exam Dates: Algae Exam Monday April 23<sup>rd</sup>  
 Bryophyte Exam Wednesday June 6<sup>th</sup>

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	March 26	Introduction- What is so different about Algae?
	March 27	Laboratory- Intro to Cyanobacteria
	March 28	Cyanobacteria & prochlorophytes
2	April 2	Introduction to the Chlorophyta (sensu lato)
	April 3	<b>**Field Trip to Aquatic Habitats to Collect Green Algae</b>
	April 4	Mitosis & Cytokinesis; Prasinophyceae
3	April 9	Chloro-, Ulvo-, Cladophoro- phyceae
	April 10	Lab- Morphology & Life cycles of chlorophycean greens
	April 11	Bryopsido-, Dasyclado- Trentepohlio-, Pleurastro- phyceae
4	April 16	Klebsormidio-, Zygnemato-, Charo- phyceae
	April 17	Lab- Greens - Morphology & Life cycles of charophyean greens
	April 18	Algae Presentation by Grad. Student; Introduction to the Bryophytes
5	April 23	<b>Algae Exam</b>
	April 24	Lab- Gametophyte & Sporophyte Morphology; Making a webpage
	April 25	Discussion- Ch. 3 Morphology & Classification of Mosses Ch. 4 Origin & phylogenetic relationships of bryophytes
6	April 30	Subclass Sphagnidae (Peat Mosses) + Lantern & Bug mosses
	May 1	<b>**Field Trip to Collect Bryophytes; Intro to identification</b>
	May 2	Discussion - Ch. 10 Peatlands: ecosystems dominated by bryophytes
7	May 7	Subclass Bryidae (Hair Cap & Four-toothed Mosses)
	May 8	<b>**Field Trip to Collect Bryophytes</b>
	May 9	Discussion - Ch. 13 Bryogeography and conservation of bryophytes
8	May 14	Subclass Bryidae ( <i>Mnium</i> & relatives) ( <i>Hypnum</i> & related mosses)
	May 15	Lab- Identification of Bryophytes
	May 16	Discussion - Ch. 11 Role of bryophyte-dominated ecosystems... <b>Bryophyte Webpage Due</b>
9	May 21	Hepatics (Liverworts)
	May 22	Lab- Identification of Bryophytes; Critique Bryophyte Webpages
	May 23	Moss Presentation by Grad. Student; Discussion - Ch. 1 Anatomy, development, & classification of hornworts <b>Laboratory Notebook Due</b>
10	May 28	<b>Memorial Day; No Classes</b>
	May 29	Time to finish Bryophyte Collection

May 30 Hornworts; Review for Final Exam; **Bryophyte Collection Due**  
Finals June 6 **Bryophyte Exam 8 am**

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