

**Botany 330 - Algae - Syllabus 2017**

<b>Week</b>	<b>Date</b>	<b>Reading</b>	<b>Lab</b>
1	Th, Sep. 7	Chapter 1 Introduction to the Algae	Care and use of microscopes; Project descriptions
2	Tu, 12	Chapter 2 Roles of Algae in Biogeochemistry	Use of Prescott Keys (exercise 3)
	Th, 14	Chapter 3 Algae in Biotic Associations	Quantification of phytoplankton: Use of Sedgewick/Rafter cells and inverted microscope (exercise 1)
3	Tu, 19	Chapter 4 Technological Applications of Algae	Quantification of cultured algae: Use of hemacytometer and electronic particle counter (exercise 2)
	*W, 20		*Midterm Exam question 1
	Th, 21	Chapter 5 Algal Diversity and Relationships	Field trip
4	Tu, 26	Chapter 6 Cyanobacteria	Culture methods (exercise 5) *Project decision due
	Th, 28	Chapter 7 Endosymbiosis and the Diversification of Eukaryotic Algae	*Oral presentations
5	Tu, Oct. 3	Chapter 8 Euglenoids	Culture methods, continued
	Th, 5	Chapter 9 Cryptomonads	Cyanobacterial diversity
6	*M, 9		*Midterm Exam drafts due
	Tu, 10	Chapter 10 Haptophytes	Cyanobacterial diversity
	Th, 12	Chapter 11 Dinoflagellates	*Oral presentations
7	Tu, 17	Chapter 12 Stramenopiles I	Flagellate diversity
	Th, 19	Chapter 13 Stramenopiles II	Flagellate diversity
8	*M, 23		*Midterm Exam due
	Tu, 24	Chapter 14 Stramenopiles III	Diatoms of Lake Wingra (exercise 4)
	Th, 26	Chapter 15 Red Algae	DNA extraction and review, project time
9	Tu, 31	Chapter 16 Green Algae I	Xanthophytes; freshwater red algae; prasinophycean green algae
	Th, Nov. 2	Chapter 17 Green Algae II	Brown, red, & green seaweeds
10	Tu, 7	Chapter 18 Green Algae III	Midterm Lab Exam: covers specimens from Oct 4 - Nov 2
	Th, 9	Chapter 19 Green Algae IV	Green algal diversity, cont. (Trebouxiophycean and ulvophycean cultures)
11	Tu, 14	Chapter 20 Green Algae V	Green algal diversity, continued (Chlorophyceans I)
	Th, 16	Chapter 21 Phytoplankton Ecology	Green algal diversity, continued (Chlorophyceans II)
12	Tu, 21		Green algal diversity, continued (Chlorophyceans III)
	Th, 23		(Thanksgiving)
13	Tu, 28	Chapter 22 Macroalgal and Periphyton Ecology	Green algal diversity, continued (Streptophyte Algae)
	Th, 30		Green algal diversity, continued (Streptophyte Algae)
14	Tu, Dec. 5		Using the logistic equations
	Th, 7		Lab Exam; covers specimens from Nov 9 - 29
15	Tu, 12		*Oral Presentations, Project and Report due
	*F, 15		*Final Exam drafts due
	*Th, 21		*Final Exam due