

Botany 330 - Algae - Syllabus 2019

Week	Date	Reading	Lab	Assignments due
1	Th, Sep. 5	Chapter 1 Introduction to the Algae	Care and use of microscopes; Project descriptions	
2	Tu, 10	Chapter 2 Roles of Algae in Biogeochemistry	Use of Prescott Keys (exercise 3)	Worksheet 1/ch 1
	Th, 12	Chapter 3 Algae in Biotic Associations	Quantification of phytoplankton: Use of Sedgewick/ Rafter cells and inverted microscope (exercise 1)	
3	Tu, 17	Chapter 4 Technological Applications of Algae	Quantification of cultured algae: Use of hemacytometer and electronic particle counter (exercise 2)	Worksheet 2/ch 2
	Th, 19	Chapter 5 Algal Diversity and Relationships	Field trip	
	*F, 20		*Midterm Exam question 1	*Midterm Exam ques. 1
4	Tu, 24	Chapter 6 Cyanobacteria	Culture methods (exercise 5) *Project decision due	Worksheet 3/ch 3 *Project decision due
	Th, 26	Chapter 7 Endosymbiosis and the Diversification of Eukaryotic Algae	*Oral presentations	*Oral presentations
5	Tu, Oct. 1	Chapter 8 Euglenoids	Culture methods, continued	Worksheet 4/ch 4&5
	Th, 3	Chapter 9 Cryptomonads	Cyanobacterial diversity	
6	Tu, 8	Chapter 10 Haptophytes	Cyanobacterial diversity	Worksheet 5/ch 6&7
	Th, 10	Chapter 11 Dinoflagellates	*Oral presentations	*Oral presentations
	*F, 11		*Midterm Exam drafts due	*Midterm Exam drafts
7	Tu, 15	Chapter 12 Stramenopiles I	Flagellate diversity	Worksheet 6/ch 8&9
	Th, 17	Chapter 13 Stramenopiles II	Flagellate diversity	
8	Tu, 22	Chapter 14 Stramenopiles III	Diatoms of Lake Wingra (exercise 4)	Worksheet 7/ch 10&11
	Th, 24	Chapter 15 Red Algae	DNA extraction and review, project time	
	*F, 25		*Midterm Exam due	*Midterm Exam due
9	Tu, 29	Chapter 16 Green Algae I	Xanthophytes; freshwater red algae; prasinophycean green algae	Worksheet 8/ch 12&13
	Th, 31	Chapter 17 Green Algae II	Brown, red, & green seaweeds	
10	Tu, Nov. 5		Midterm Lab Exam: covers specimens from Oct 3 - Oct 31	Worksheet 9/ch 14&15 LAB EXAM
	Th, 7	Chapter 18 Green Algae III	Green algal diversity, cont. (Trebouxiophycean and ulvophycean cultures)	
11	Tu, 12	Chapter 19 Green Algae IV	Green algal diversity, continued (Chlorophyceans I)	Worksheet 10/ch 16&17
	Th, 14		Green algal diversity, continued (Chlorophyceans II)	
12	Tu, 19		Green algal diversity, continued (Chlorophyceans III)	Worksheet 11/ch 18&19
	Th, 21	Chapter 20 Green Algae V	Green algal diversity, continued (Streptophyte Algae)	
13	Tu, 26	Chapter 21 Phytoplankton Ecology	Green algal diversity, continued (Streptophyte Algae)	Worksheet 12/ch 20&21
	Th, 28		<i>Thanksgiving</i>	
14	Tu, Dec. 3	Chapter 22 Macroalgal and Periphyton Ecology	Periphyton	Worksheet 13/ch22
	Th, 5		Lab Exam; covers specimens from Nov 7 - 26	LAB EXAM
15	Tu, 10		*Oral Presentations, Project and Report due	*Project Report due
	*W, 11		*Final Exam drafts due	*Final Exam drafts due
	*Tu, 17		*Final Exam due	*Final Exam due