

BOTANY (BIO 151) LECTURE TOPICS

WEEK 1	INTRODUCTION A Brief Plant Evolution to the Green Revolution	Ch. 1 & 31	
WEEK 2	PLANT CLASSIFICATION	Ch. 10	Appendix C (728)
WEEK 3	THE BASIC PLANT Parts, Growth, and Life Stages		Ch. 2 & 23 (488)
WEEK 4	PLANT CELLS		Ch. 2 & 21
WEEK 5	ROOTS		Ch. 22
WEEK 6	STEMS Primary Growth, Stem Modifications		Ch. 23
WEEK 7	SECONDARY GROWTH		Ch. 24
WEEK 8	LEAVES Leaf Modifications		Ch. 23
WEEK 9	PHOTOSYNTHESIS (Review Ch. 3 & 4)		Ch. 5 & 7
WEEK 10	RESPIRATION		Ch. 5 & 6
WEEK 11	BIOSYNTHETIC PATHWAYS		Ch. 5 & 6
WEEK 12	MOVEMENT OF MATERIALS IN PHLOEM		Ch. 28
WEEK 13	MOVEMENT OF WATER IN PLANTS/SOIL Cohesion Tension Theory; Root Pressure; Soil Water (Review Ch. 4)		Ch. 27 & 28
WEEK 14	TRANSPIRATION Adaptations to Dry, Wet, Average Moisture Conditions		Ch. 23 & 28
WEEK 15	HORMONES		Ch. 25 & 26
WEEK 16	FINISH UP		

Week 11	Ex. 16 (p. 171) Photosynthesis	Chapt. 7
	Ex. 17 (p. 181) Digestion and respiration	Chapt. 5 and 6
Week 12	Laboratory Practical	
	Survey lab	Chapt. 14, 15, 16 and 17
Week 13	Survey lab, continued	Chapt. 14, 15, 16 and 17
	Ex. 25 (p. 263) Mosses and liverworts	Chapt. 18
Week 14	Ex. 26 (p. 277) Lower vascular plants	Chapt 19
Week 15	Ex 27 (p.293) Cone-bearing seed plants	Chapt 20
	Ex 28 (p. 303) Flowering seed plants	Chapt 21
Week 16	Field trip to M.S.U., Botany Department Presentation	

Laboratory Practical

Lecture topics follow lab topics as closely as possible but often are out of sync with one another. Refer to the chapters for the laboratory topics and additional assignments will be given from time to time in lecture.