

PLANT PHYSIOLOGY, FALL 2008

WEEK/DATE	LECTURE	LAB ACTIVITY
1	8/20	Overview, Classification
		8/21 <i>No Lab</i>
2	8/25	Plant Architecture (Ch1)
	8/27	Energy and Enzymes (Ch2)
		8/28 Intro to Plant Tissue Culture, Media prep
3	9/1	<i>Labor Day- No Class</i>
	9/3	Water and Plant Cells (Ch3)
		9/4 Surface sterilization of miniature rose stems; Axillary bud multiplication
4	9/08	Xylem and Water Uptake (Ch4)
	9/10	Water Uptake (Ch4)
		9/11 Nutrient Deficiency - set up
5	9/15	Mineral Nutrition (Ch5)
	9/17	Mineral Assimilation (Ch12)
		9/18 Initial measurements on Nutrient Deficiency; Surface sterilization and Callus induction in Tobacco stems
6	9/22	Exam I
	9/24	Solute Movement (Ch6)
		9/25 Water Potential; Growth measurements
7	9/29	Phloem and Translocation (Ch10)
	10/01	Photosynthesis: Fluorescence(Ch7)
		10/2 Micropropagation & Adventitious Growth - <i>Myriophyllum</i> ; establish autotrophic cultures
8	10/06	<i>Fall break- No Class</i>
	10/08	Photosynthesis: Light Rxns (Ch8)
		10/09 Micropropagation of Flytraps (petioles)
9	10/13	Carbon Fixation (Ch9)
	10/15	Respiration (Ch11)
		10/16 Micropropagation of <i>Hosta</i> (shoots)
10	10/20	Lipid metabolism (Ch11)
	10/22	Cell Walls (Ch15)
		10/23 Organogenesis from Tobacco callus
11	10/27	Growth and Development (Ch16)
	10/29	Differentiation (Ch16)
		10/30 Photosynthesis vs salinity - Oxygen electrode
12	11/03	Exam II
	11/05	Auxin (Ch19)
		11/06 Pigments
13	11/10	Cytokinins (Ch21)
	11/12	Gibberellin (Ch20)
		11/13 Photosynthesis versus irradiance - PAM Fluorometry; Greenhouse acclimation of <i>Hosta</i> , Rose, Venus Fly Traps
14	11/17	Ethylene (Ch22)
	11/19	Abscisic Acid (Ch23)
		11/20 Work on Lab Reports; Data Analyses
15	11/24	Phytochrome (Ch17)
	11/26	<i>Thanksgiving - No Lecture</i>
		11/27 <i>No Lab</i>
16	12/01	Photoperiodism and Flowering (Ch25)
	12/03	Stress Physiology (Ch26)
		Lab Reports Due; Collect your beautiful plants!
17	12/05	Friday -7-10:00 pm Final Exam-DO226