

**Botany 2104 Course Schedule for Fall 2009 (subject to change):**

Date	Lecture	Activity	Reading
Week 1 Aug 24	Introduction to the course Organs and tissues of flowering plants	Examine plant organs and tissues	Ch 1
Aug 26	Metric system Lab orientation Start seeds	“Metric System” “Lab Safety Orientation” Lab safety tour Start “Seed Germination and Root Growth”	inside back cover pp 504-508
Aug 28	Seed germination and dormancy Root growth	Finish “Seed Germination and Root Growth”	
Week 2 Aug 31, Sept 2	Chemistry Biomolecules		online Ch 2
Sept 4		“Storage Polymers of Seeds”	
Week 3 Sept 7	Labor Day - no classes		
Sept 9, 11	Essay Diffusion and osmosis Water potential Cellular Membranes	“Diffusion and Osmosis”	McMillan, pp 16-17  pp 71-81
Week 4 Sept 14, 18	Microscopy	“Microscopy”	
Sept 16	Uinta Mountains Field Trip. See <a href="http://departments.weber.edu/botany/UMFT/home.htm">http://departments.weber.edu/botany/UMFT/home.htm</a> for information. Class will not meet today.		
Week 5 Sept 21	Exam 1		
Sept 23, 25	The eukaryotic cell	“Plant Eukaryotic Cell”	pp 35-58
Week 6 Sept 28, 30	Plant Form and Function: Evolutionary Aspects  Research Design	“Evolution: Adaptability of Plant Form” “Research Design”  Set up “Roots” Procedure 9 (Sept 28) Set up “Mineral Nutrition” Procedure 3 (Sept 28)	pp. 198-207

Oct 2 Week 7 Oct 5	Plant cells and tissues	“Cells and Tissues”	Ch 23
Oct 7, 9	Root anatomy	“Roots”	pp 528-538 pp 540-546
Oct 9 Week 8 Oct 12	Stem anatomy	“Stems”	pp 547-558 pp 575-579
Oct 14 (and Week 9, Oct 19)	Leaf anatomy	“Leaves”	pp 558-570 pp 575-579
Oct 16	Fall Break - no classes		
Week 9 Oct 19	Leaf anatomy	“Leaves”	pp 558-570 pp 575-579
Oct 21	Anatomy catch-up		
Oct 23	Exam 2		
Week 10 Oct 26	Secondary growth	“Secondary Growth”	pp 538-540 Ch 26
Oct 28	Secretory Structures	“Secretory Structures”	pp 591-595 pp 676-677, fig 30-17 on p 678
Oct 30	Respiration	“Respiration”: Procedure 1	Ch 5, 6
Week 11 Nov 2	Respiration	“Respiration”: Procedure 2	Ch 5, 6
Nov 4	Finish Respiration Start Photosynthesis Review basic leaf structure		Ch 5, 6 Ch 7 pp 559-567
Nov 6	Photosynthesis	“Photosynthesis”: Procedures 1-3	Ch 7
Week 12 Nov 9	Photosynthesis	“Photosynthesis”: Procedures 4-6	Ch 7

Nov 11	Photosynthesis Photosynthesis-transpiration compromise	“Photosynthesis”: Procedures 7-9	Ch 7 pp 667-675
Nov 13	Exam 3		
Week 13 Nov 16, 18	Mineral nutrition	Examine fertilizers “Mineral Nutrition” Video: <i>Carnivorous Plants</i>	pp 645-649 pp 653-661
Nov 20	Mitosis Meiosis	“Nuclear Division Processes”	pp 58-67 pp 143-148
Week 14 Nov 23, 25	Flowers	“The Flower”	pp 436-450
Nov 27	Thanksgiving Break - no classes		
Week 15 Nov 30	Pollination Fertilization	“Pollination and Fertilization” Video: “The Birds and The Bees” from <i>The Private Life of Plants</i>	pp 460-465
Dec 2, 4	Fruits Asexual reproduction	“Fruits” Video: “The Seedy Side of Plants”	pp 465-470 pp 158-159
Dec 9 (Wednesday)	Final Exam, 12:30-2:20		