

BIOL 221--Concepts of Botany (Spring 2008: <http://herbarium.millersville.edu/class-web/221.htm>)

Instructor- Dr. Chris Hardy office: Roddy 271 office hrs: Mon & Tue 2-4 pm, Thu 9:30-10:30 am
tel: 871-2312 Web: <http://herbarium.millersville.edu/hardy.php>

Required Text- Stern, KR, JE Bidlack, and SH Jansky. 2008. *Introductory Plant Biology*, 11th Ed. McGraw Boston. (ISBN 978-0-07-331421-1.)

Optional Text- DeGraaff, Rushforth, & Crawley. 2004. *Photographic Atlas for Botany Laboratory*, 4th Ed. Morton Publishing Co., Englewood.

Other Suggested Materials- Lab notebook for drawings and notes. Cross-reference these to your photographic atlas.

Schedule

Week of...	Topic	Notes
Jan 14	Cells & tissues	
Jan 21	Roots	
Jan 28	Shoots	
Feb 04	Embryo & seedlings	
Feb 11	Wood & cork	
Feb 18	Market place & plant modifications	
Feb 25	Water relations	
Mar 03	Photosynthesis	
	Spring Break	
Mar 17	Tropisms & hormones	
Mar 24	Algae	Rain or shine, dress for possible fieldtrip
Mar 31	Bryophytes	Rain or shine, dress for possible fieldtrip
Apr 07	NO WED LABS (Fungi or TBA for Thu lab)	
Apr 14	Pteridophytes & gymnosperms	Rain or shine, dress for possible fieldtrip
Apr 21	Angiosperms	Rain or shine, dress for possible fieldtrip
Apr 28 (no Thu lab)	TBA (possibly Dyes lab, or fieldtrip)	Rain or shine, dress for possible fieldtrip

Grading 100 lab points total. All lab totals will be scaled to these 100 course points, regardless of how many points are given by your lab instructor (e.g., If you get 180/200 points in Dr. Wagner's lab, this will be scaled by Dr. Hardy to 90/100 in the final course grade calculation).

1. Lab Quizzes (50 pts. total). Five quizzes at 10 pts. Quizzes cover material since last quiz. Any excused missed quizzes can only be made up that week and in mine or Dr. Wagner's lab sections.
2. Assignments (announced in class; 20 points total). Drawings, graphs, questions, and simple statistics from lab exercises. Due-dates to-be-announced.
3. Physiology Report (30 pts.).
One lab will be chosen by the instructor from the Physiology section and will be prepared by the student in the format used by the journal *Plant Physiology*. Sections detailing an abstract, introduction, materials and methods, results, and discussion/conclusions will be included.
Standard deduction of 10% per day late will be assessed.
Due **week of Apr 14** at the beginning of your lab.

Special Needs Please let me know if you have any disabilities or special needs that might affect your performance in this course. I will do my best to accommodate you.

Attendance Required.

Honesty Each student is expected to adhere to the Millersville University's Academic Honesty Policy. Violation of it results in a zero for the assignment. The policy can be found in the Student Handbook and the Academic Honesty and Dishonesty brochure.