

BIOL 471 Methods in Systematics Spring 2007

Instructor Dr. Chris Hardy office: Roddy 271 office hrs: Mon & Tue 3-5 pm, Wed 3-4 pm
 tel: 871-2312 Web: http://herbarium.millersville.edu/profile_CHardy.php

Schedule

Date	Lecture	Reading from...
Jan & 17	1) Introduction	
Jan 22 & 24	2) Biotic inventory & related activities: key, guides, floras, and manuals	
Jan 29 & 31		
Feb 05 & 07	3) Biotic inventory & related activities: Biogeographic Mapping & Modeling	
Feb 12 & 14		
Feb 19 & 21		
Feb 26 & 28	4) Phylogenetic Inference	
Mar 05 & 07		
Mar 19 & 21	5) Applications of phylogenies	
Mar 26 & 28		
Apr 02 & 04		
Apr 09	6) Species Delimitation & Species Description	
Apr 16 & 18	7) TBA	
Apr 23 & 25		
May <u>08</u>	**FINAL EXAM** , Tue 10:15am-12:15pm	

Grading A point system is employed. Final letter grades are earned on basis of percentage of total points available as follows (A = 93-100%; A- = 90-92; B+ = 87-89; B = 83-86; B- = 80-82; C+ = 77-79; C = 73-76; C- = 70-72; D+ = 67-69; D = 63-66; D- = 60-62; F = below 60%).

Projects & Participation	120
Final Exam	50
Total points possible	170

Objectives At the successful completion of Biol 471, a student should be able to

1. Understand the science of systematics and how it relates to the study and conservation of biodiversity.
2. Understand the common activities of systematists in terms of objectives, theory, and methods.
3. Build an interactive key to a select group of species.
4. Use software for phylogenetic inference.
5. Use software to map and analyze species distributions.
5. Search biodiversity databases and retrieve data for analysis.
6. Understand the basics of molecular systematics and the molecular evolution of the various genomes tapped for molecular systematics studies.

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.