

BZ 325 PLANT SYSTEMATICS
Spring 2006

Instructor: Mark P. Simmons

Office: E212B Anatomy / Zoology Building; phone 491-2154; e-mail: psimmons@lamar.colostate.edu

Office hours: Monday 12 AM – 1 PM; Thursday 2 – 3 PM

Teaching Assistant: Erica Smith

Office: E419 Anatomy / Zoology Building; phone 491-1901; e-mail: ericalinnea1@hotmail.com

Office hours: Tuesday 10 – 11 AM; Wednesday 9 – 10 AM

Lecture: Tuesday / Thursday 12:30 – 1:45 PM; E112 Anatomy / Zoology Building

Lab: Tuesday 2:10 – 3:50 PM; E206 Anatomy / Zoology Building

Required Text:

Judd, W. S., C. S. Campbell, E. A. Kellogg, P. F. Stevens, and M. J. Donoghue. 2002. *Plant systematics: a phylogenetic approach*, second edition. Sinauer Associates, Sunderland, Mass.

Course web site: <http://webct.colostate.edu/>

- Course number: BZ325 Plant Systematics
- Instructor: Mark P. Simmons

Objectives:

Students will be able to understand the methods and interpret the results of phylogenetic analyses using both genotypic and phenotypic characters. Students will be able to trace the inferred phylogeny of the vascular-plant orders and describe the derived phenotypic characters for each of the major clades. Students will be able to describe morphological structures of vascular plants using botanical terminology. Students will be able to identify prominent vascular-plant families using diagnostic morphological characters. Students will be able to describe the life histories of, and evolutionary processes acting on, vascular plants.

Grading:

Two preliminary exams	75 (each)
Cumulative final exam	100
Lab quizzes and assignments	70 (total)
Cumulative lab final	30
Writing assignment	50
<u>Total:</u>	<u>400 points</u>

Exam information:

- sample test questions will be provided
- a review session will be scheduled before each test
- the final exam is cumulative, the second preliminary exam is not
- be parsimonious in your answers to test questions. If you answer a question correctly, but provide additional information that is incorrect, points will be taken off for the incorrect part(s)

Suggested plant-image web sites

- Texas A & M: <http://www.csdl.tamu.edu/FLORA/gallery.htm>
- University of Hawaii: http://www.botany.hawaii.edu/faculty/carr/phylo_fpfamilies.htm#MAGNOLIID
[COMPLEX](#)
- University of Illinois: <http://fm5web.life.uiuc.edu:23523/df/>
- University of Wisconsin: <http://botit.botany.wisc.edu/courses/systematics/index.html>
- Cornell University: <http://www.plantsystematics.org/>
- PlantSystematics.org: <http://www.plantsystematics.org/>
- Noble Foundation: <http://www.noble.org/imagegallery/>
- *Don't forget the CD in the back of Judd et al. (2002)!*