

BOT 3437
Plant Diversity & Systematics

Lecturer: Dr. Michael L. Moody
Office Hours: By Appointment
Office: Biology B306
Phone: 747-5087
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COURSE MEETING AND LOCATION:

MW 10:30-11:50 (C204); **T** 1:30-4:20 (B309)

TEXTBOOKS (REQUIRED):

- Simpson, M. G. 2010. *Plant Systematics*. Elsevier Academic Press, London
- Harris, J. G. and M. Woolf-Harris.1994. *Plant identification terminology: an illustrated glossary*. Spring Lake Publishing, Spring Lake, UT

COURSE OBJECTIVES:

- identify and understand the diversity of the major groups of land plants, emphasizing flowering plants
- understand the importance of phylogeny in modern day plant taxonomy
- understand and use plant morphology (what plants look like) in the context of plant taxonomy and classification
- make field identity of many common angiosperm families and some genera common to the southwest
- use your new gained skills to identify plants of the Chihuahuan desert ecosystem using taxonomic keys and other resources

GRADING:

Lab assignments	15%	(Drop - 1 lowest score)
In Class (Quizzes, iclicker)	15%	(Drop - 1 lowest quiz; 3 lowest iclicker)
Exam 1	15%	Mon. Feb. 25
Exam 2	15%	Mon. Apr. 1
Practical Lab Exam	10%	Tu. Apr. 30
Plant Collection	15%	Th. May 9, 5 pm
Final Exam	15%	Fri. May 17, 10 am-12 pm

POLICY ON MAKE-UP EXAMINATIONS: No make-up exams will be given for reasons other than illness (doctor's note required), absence with the instructor's prior approval, or when a student is on official University business (documentation required). Make-up exams will be scheduled at the Instructor's convenience.

POLICY ON ACADEMIC HONESTY: Academic Dishonesty will not be tolerated. It includes, but is not limited to, cheating, plagiarism, collusion, the submission for credit of any work or materials that are attributable in whole or in part to another person, taking an

examination for another person, any act designed to give unfair advantage to a student or the attempt to commit such acts. If you have any questions regarding the university policy on scholastic dishonesty please contact the Dean of Students.

POLICY ON ELECTRONIC DEVICES: Be courteous to your fellow students and lecturer. Turn off any cell phones, smart phones, Blackberries, etc. during lecture. You cannot text, surf the internet, watch movies, listen to music, etc. in my class. **•You will be asked to leave if this happens**

ATTENDANCE POLICY: Regular attendance will be necessary for success in this class.

POLICY ON DISRUPTIVE BEHAVIOR: Any student who disrupts the class will be asked to leave and will be referred to the Dean of Students.

DISABILITY STATEMENT: If you have a disability and need classroom accommodations, please contact: The Center for Accommodations and Support Services (CASS) at 747-5148, or by email to cass@utep.edu, or visit their office located in UTEP Union East, Room 106. For additional information, please visit the CASS website at www.sa.utep.edu/cass.

MILITARY STATEMENT: If you are a military student with the potential of being called to military service and /or training during the course of the semester, you are encouraged to contact me at the beginning of the semester.

IMPORTANT DATES:

Classes start: Wed. Jan 23

Exam 1: Mon. Feb 25

Spring Break: Mar 18-22

Exam 2: Mon. Apr 1

DROP DEADLINE: Apr 5

Practical Lab Exam: Tu. Apr 30

Collection Project Due: Th. May 9, 5pm

Field Trip: TBD

Last lecture: Wed. May 8

Dead Day: May 10

Final Exam: May 15 (10 am – 12 pm)

***PLANT DIVERSITY & SYSTEMATICS (BOT 3437)**

Week	Topic	Readings	Labs
W1: Jan 23	Intro Plant Systematics		No Lab
W2: Jan 28-30	Systematics Basics Phylogeny	Ch. 2 & 3	L1 - Systematics
W3: Feb 4-6	Plant Species Veg. Morphology	Ch. 19 & 9	L2 - Plant Collection
W4: Feb 11-13	Intro. Flowering Plants Repro. Morphology	Ch. 9	L3 - Vegetative Morphology
W5: Feb 18-20	Fruits, Seeds, Pollen species formation, retention	Ch. 9, 13, 19	L4 - Flowers, Fruits
W6: Feb 25-27 Exam 1 (Mon.)	Molecular markers and DNA fingerprinting	TBD	L5 - DNA Lab I
W7: Mar 4-6	Basal Angiosperms Monocots	Ch. 7	L6 - DNA Lab II
W8: Mar 11-13	Monocots – Grasses, Sedges Southwest plant diversity	Ch. 7	L7 – Monocots 1
W9: Mar 18-20	Spring Break		
W10: Mar 25-27	Early Eudicots Caryophyllales	Ch. 8	L8 – Early Eudicots, Electronic keys, etc.
W11: Apr 1-3 Exam 2 (Mon.)	Rosids 1 - Fabids	Ch. 8	L9 – Caryophyllales
W12: Apr 8-10	Rosids 2 – Rosales Rosids 3 – Malvids	Ch. 8	L10 – Rosids
W13: Apr 15-17	History, Nomenclature Asterids 1	Ch. 16, 8	L11 - Rosids
W14: Apr 22-24	Asterids 2 & 3	Ch. 8	L12 - Asterids
W15: Apr 29-May 1	Gymnosperms Pollination & Dispersal	Ch. 4 & 5	Prac Exam
W16: May 6-8	Advanced Plant Systematics	TBD	No Lab

*Subject to modification