

BOT 3437/ BIOL 5301
Plant Diversity & Systematics

Lecturer: Dr. Michael L. Moody

Office Hours: By Appointment

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COURSE MEETING AND LOCATION: MW 10:30-11:50 (UGLC 334); T 1:30-3:20 (B324)

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 and evolutionary biology
- 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 - 2 lowest quiz; 4 lowest iclicker)
*Exam 1	15%	Mon. Feb. 21
*Exam 2	15%	Mon. Mar. 28
Practical Lab Exam	10%	Tu. Apr. 26
Plant Project	15%	Th. May 5, 5 pm
*Final Exam	15%	Fri. May 13, 10 am-12 pm

***Exams will be taken in class on computer or tablet using Respondus**

POLICY ON COVID SAFETY:

- **Please stay home if** not feeling well and/or you have been diagnosed with COVID-19 or are experiencing COVID-19 symptoms. If you are feeling unwell, please let me know as soon as possible, so that we can work on appropriate accommodations. **If you have tested positive for COVID-19 DON'T COME TO CAMPUS**, you are encouraged to report your results to covidaction@utep.edu, so that the Dean of Students Office can provide you with support and help with communication with your professors. The Student Health Center is equipped to provide COVID-19 testing.
- The Center for Disease Control and Prevention recommends that people wear face masks when indoors in groups of people.
- **GET VACCINATED is highly encouraged**. If you still need the vaccine, it is widely available in the El Paso area. For more information about the current rates, testing, and vaccinations, please visit www.epstrong.org.

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 19

Exam 1: Mon. Feb 21

Spring Break: Mar 14-16

March 25 – Cesar Chavez Day

Exam 2: Mon. Mar 28

DROP DEADLINE: Apr 1

Practical Lab Exam: Tu. Apr 26

Collection Project Due: Th. May 5, 5pm

Field Trip: TBA

Last lecture: Wed. May 4

Dead Day: May 6

Final Exam: May 13 (10 am – 12 pm)

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

Week	Topic	Readings	Labs
W1: Jan 19	Intro Plant Systematics		No Lab
W2: Jan 24-26	Systematics Basics Phylogeny	Ch. 2 & 3	L1 - Systematics
W3: Jan 31 - Feb 2	Plant Species Veg. Morphology	Ch. 19 & 9	L2 - Garden
W4: Feb 7-9	Intro. Flowering Plants Repro. Morphology	Ch. 9	L3 - Vegetative Morphology
W5: Feb 14-16	Fruits, Seeds, Pollen species formation, retention	Ch. 9, 13,19	L4 - Flowers, Fruits
W6: Feb 21-23 Exam 1 (Mon.)	Molecular markers and DNA fingerprinting	TBD	L5 - DNA Fingerprinting Computer Lab
W7: Feb 28 - Mar 2	Basal Angiosperms Magnoliids	Ch. 7	L6 - TBD
W8: Mar 7-9	Early Monocots-Orchids Monocots – Grasses, Sedges	Ch. 7	L7 – Monocots 1
W9: Mar 14-16	Spring Break		
W10: Mar 21-23	Monocots 3 Southwest plant diversity	Ch. 8	L8 – Early Eudicots, Electronic keys, etc.
W11: Mar 28-30 Exam 2 (Mon.)	Early Eudicots Caryophyllales	Ch. 8	L9 – Caryophyllales
W12: Apr 4-6	Rosids 1 - Fabids Rosids 2 – Rosales	Ch. 8	L10 – Rosids
W13: Apr 11-13	Rosids 3 – Malvids Asterids 1	Ch. 16, 8	L11 - Rosids
W14: Apr 18-20	Asterids 2 & 3	Ch. 8	L12 - Asterids
W15: Apr 25-27	History	Ch. 4 & 5	Prac Exam
W16: May 2-4	Advanced Plant Systematics	TBD	No Lab

*Subject to modification