BOT 3437  
Plant Diversity & Systematics

Lecturer: Dr. Michael L. Moody  
Office Hours: By Appointment  
Office: Biology B306  
Phone: 747-5087  
email: mlmoody@utep.edu

COURSE MEETING AND LOCATION:
MW 10:30-11:50 (C204); T 1:30-4:20 (B309)

TEXTBOOKS (REQUIRED):

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

*Subject to modification*