Midland College Syllabus
2004
BIOLOGY 1424-LAB
Systematic Botany
4 semester credit hours
3 lecture/1 lab

Course Description: Systematic Botany is an introduction to identification, classification, and evolutionary relationships of vascular plants with emphasis on flowering plants. The laboratory section includes the importance of herbaria, collection techniques, and the construction and use of taxonomic keys.

Instructor Information:
Instructor: Tomás Hernández
Office Phone: 685-6466
dohernandez@midland.cc.tx.us
Office: Room 105 SF
Office Hours: M-R 12:20pm-1:20pm
OR BY APPOINTMENT.

Text, References, and Supplies:
(Recommended reference)

Laboratory Manual: Manual of the Vascular Plants of Texas, by D.S. Correll and M.C. Johnston, 1979, University of Texas at Dallas, (Provided by Biology Faculty)

Test Materials: No. 2 Pencil, and 2 scantron forms No. 886-E (Mini-Essay form)

Course Goals/Objectives:
Upon completion of this course the student will:
1. Have a fundamental understanding of classification
2. Have a fundamental understanding of evolutionary relationships of vascular plants
3. Have a fundamental understanding of plant collection techniques and the importance of herbaria.
4. Have a fundamental understanding of the construction and use of taxonomic keys

Student Contributions and Class Policies:
Lecture: Students will be expected to comply with the policies outlined in the Midland College student handbook. Instructor policies concerning attendance and academic behavior are consistent with the policies in the student handbook. Regular attendance is required to do well in this class.

Lab: Students will be evaluated based on the results of examinations and assignments given throughout the semester. Students are expected to complete each exam. ONE lecture exams will be given (see exam schedule) throughout the semester. If an exam is missed, an alternative, written exam will be given. QUIZZES or skills test (unknowns) will be randomly given throughout the session. Class participation and attendance will be factors in final determination of your grade.

Math/Science Division Information:
Division Chairman: Dr. Margaret Wade, 125 SF, 685-4615.
Division Secretary: Ms. Norma Duran, 124 SF, 685-4612.
Evaluation of Students:

<table>
<thead>
<tr>
<th></th>
<th>% of Grade</th>
<th>Grade Range</th>
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<tbody>
<tr>
<td>Lecture</td>
<td>70%</td>
<td>A=90-100</td>
</tr>
<tr>
<td>Lab</td>
<td>30%</td>
<td>B=80-89</td>
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<tr>
<td></td>
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<td>C=70-79</td>
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<td></td>
<td></td>
<td>D=60-69</td>
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<td></td>
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<td>F= below 60</td>
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Grading:

<table>
<thead>
<tr>
<th>Assignment</th>
<th>% of Grade</th>
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<tbody>
<tr>
<td>Plant Collection</td>
<td>50%</td>
</tr>
<tr>
<td>Exam 1</td>
<td>25%</td>
</tr>
<tr>
<td>Quizzes</td>
<td>25%</td>
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Plant Collection:

Students are required to turn in a plant collection. This will be your main lab project and therefore will constitute a major percentage of your lab grade. Also, please be familiar with the proper collection techniques and guidelines handout since the plant collection will be graded using two main criteria: 1) Proper identification (i.e. family, genus, and specific epithet) and 2) Technique (i.e., properly pressed, dried, and include all collection data).

Collection requirements:

- Attend field trip: 10 plants-5 different families
- No field trip: 15 plants-7 different families

Field trips:

...The field trip in which you will be able to participate but are not mandatory. Participation will count toward class participation points and will determine your plant collection requirements. Destinations and travel dates will be determined soon. Each student will be responsible for all their camping equipment and help in purchasing food. Other pertinent information for each trip will be given and discussed at a later time.

TENTATIVE LECTURE EXAM SCHEDULE:

<table>
<thead>
<tr>
<th>Course Schedule:</th>
<th>Exam</th>
<th>Date</th>
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<tbody>
<tr>
<td>PLANT COLLECTION</td>
<td>EXAM I</td>
<td>Week of June</td>
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<td>DUE 06th of July 2004</td>
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Intellectual Competencies:

Reading - Understanding the material incorporated in the text used in this course will require the student to analyze and interpret various biological concepts.

1. Listening - The primary teaching methods used in this course are discussion and lecture. Understanding the oral presentation of material will require the student to analyze and interpret various biological concepts.

2. Critical Thinking - Critical thinking, as exemplified by problem solving, is inherent in the study of any scientific discipline. Biological problems will be considered, discussed, and analyzed in this course.

3. Reading - Understanding the material incorporated in the text used in this course will require the student to analyze and interpret various biological concepts.

ADA Statement:

Any student who, because of a disabiling condition, may require some special arrangements in order to meet course requirements should contact the instructor as soon as possible. These conditions may include documented physical or educational disabilities. Please be aware that services or accommodations are not automatic. Each student must request them and secure the proper authorizations.