Horticulture 221 - LANDSCAPE PLANTS, Fall 2013
4 credits: 2 - 1 hour lectures
2 - 2 hour laboratories

Instructor: Dr. James E. Klett  Office Shep 219 Hours 9:00-10:00 a.m. Tuesday or by appt.
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Texts:
There is no one text which fits the needs of this course. However, the following book will be used often, Manual of Woody Landscape Plants by Michael A. Dirr, Stipes Publishing Company, 2009 (6th edition). Reference texts will be listed on a separate sheet. This book has been placed on reserve at the Morgan Library for class use.

Objectives of Course:
The student will learn a systematic approach to proper nomenclature, identification, ornamental characteristics, culture, hardiness, pests, propagation, and use of hardy coniferous and deciduous trees, shrubs and vines.
Approximately 270+ different plants will be studied including many cultivars commonly used in the landscape nursery industry, many of which are native to the Rocky Mountain area. Ornamental characteristics such as flowers, fruit, fall color and winter texture will be stressed along with their landscape use. Particular cultural and pest problems of various species will also be discussed.

Lecture and Laboratory:
Lectures will be in Shepardson 212. The majority of the lab time will be spent in the field (weather permitting) learning proper nomenclature and identification of plant material. The current week's plant specimens will be available in Shepardson Room 112 (Student Lounge), which is open for study whenever Shepardson Building is open to public.
Labs will meet initially in Shepardson 102 on Tuesday and on Thursday. Past plant specimens will be kept in the refrigerator inside Shepardson Room 112.

Field Trip:
An all-day field trip to the Denver Botanic Gardens, Denver Washington Park, and Fairmount Cemetery in Denver is planned. The trip will be in October to coincide with fall foliage color. It is important that you attend this field trip. Those unable to attend will have to do an extra assignment.
The extra assignment will be to prepare a list of twenty-five (25) woody plants noting their fall foliage color. You will need to list the scientific name, common name, spring flower color, date observed, specific location of plant material, how utilized in the landscape and if you think it is used properly. Plants should be showing some fall foliage color when you observe them.

Plant Identification:
Plant list and pictures of woody plants (trees, shrubs, vines and conifers) can be found on this website - http://klett.agsci.colostate.edu and click on H-221 or use link on RamCT – Hort221

Testing:
Nine plant identification quizzes will be given during the semester. (Eight will count for the final grade). The lowest grade will be dropped. Quizzes may be either indoors or outdoors and will be announced. Plants must be learned by leaf, stem and bud characteristics for identification quizzes are cumulative and can cover plants from the first week of the semester. Three one hour exams covering both lecture and laboratory material will be given approximately 5, 10, and 14 weeks into the semester. The final written exam will cover the last fourth of the course and the final lab identification exam will cover all the plant material studied throughout the course. Generally quizzes will be given in Thursday's lab of each week in Room 102. No make-up quizzes will be given. Only under extreme circumstances will a quiz be allowed to count double since you can drop one quiz out of the nine to be given.

Ram CT:
This class also has a RAM CT component – check often for class announcements.
Grading Allocations: This class used a weighted grading system. The percentages below show how your final grade will be calculated at the end of the semester.

**Plant identification quizzes.**

(Total of 8 quizzes, 9th quiz or lowest grade will be dropped) 40%

**Three hour examinations.**

(approximately on the 5th, 10th, and 14th weeks) 35%

(3rd exam will include a take-home part dealing with utilizing plant material in landscape situations)

**I-Clicker grade.**

(Beginning in lecture on Tues, September 3, 2013 there will be 1 question per lecture; You will receive 1 point for attendance, 1 point if you get the answer to the question correct.) 5%

**Final Examination.**

(10% Final I-D and 10% Final written exam over the last 1/3 of the course) 20%

100% Total

**Grading Allocations for Identification Quizzes:**

Students often have problems deciphering the grading allocations for plant quizzes. The following examples should serve to alleviate the confusion.

<table>
<thead>
<tr>
<th>Examples</th>
<th>Scientific and common names are required.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Scientific and common names are required.</strong></td>
<td>Acer ginnala - Amur Maple</td>
</tr>
<tr>
<td></td>
<td>5 3 2</td>
</tr>
<tr>
<td></td>
<td>= 10 pts</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Examples</th>
<th>Each plant is worth ten (10) points.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Genus Name</td>
</tr>
<tr>
<td></td>
<td>Specific epithet (species)</td>
</tr>
<tr>
<td></td>
<td>Complete common name</td>
</tr>
<tr>
<td></td>
<td>5 pts</td>
</tr>
<tr>
<td></td>
<td>3 pts</td>
</tr>
<tr>
<td></td>
<td>2 pts</td>
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Every spelling mistake results in the loss of one-half point. If one misses in excess of three letters per word, no credit will be given. The common name must be complete. Maple by itself means nothing, nor does the term Amur. Together they refer to a specific Maple.

If a cultivar or variety is used as a quiz plant the point distribution changes.

<table>
<thead>
<tr>
<th>Example</th>
<th>If a cultivar or variety is used as a quiz plant the point distribution changes.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cornus florida 'Fastigiata'</td>
<td>Cornus florida 'Fastigiata' - Fastigiate Flowering Dogwood</td>
</tr>
<tr>
<td>5 2 1 1 1</td>
<td>= 10pts</td>
</tr>
<tr>
<td>Cornus florida rubra</td>
<td>Cornus florida rubra - Pink Flowering Dogwood</td>
</tr>
<tr>
<td>5 2 1 1</td>
<td>= 10pts</td>
</tr>
</tbody>
</table>

The cultivar 'Fastigiata' can also be correctly written as Cornus florida cv. Fastigiata without single quotes. The variety rubra can be written Cornus florida var. rubra. Both are acceptable under the Rules of Nomenclature for Cultivated Plants. However, for this course you will use the first two methods described.

**Letter grades:**

Grades will generally fall as follows: 92-100 = A; 90-91 = A-; 87-89 = B+; 82-86 = B; 80-81 = B-; 77-79 = C+; 70-76 = C; 60-69 = D; below 60 = F. Attendance will be considered in borderline cases.

**Honor Pledge:**

It is our expectation that you will honor the following statement throughout this course: I pledge on my honor that I have not received or given any unauthorized assistance on this academic work.

The Green Revolution: It's in your hands. Eat, drink and sleep woody plants during this semester!

**If any student has a learning disability, please inform instructor during the first week of the semester.**