HORT 322 – Herbaceous Plants  
Fall 2013  
3 Credits: two – 1 hour lectures, and one – 2 hour laboratory  

Instructor: Dr. James Klett  
Office Hours: Tuesday or Thursday 9-10 am or by appt.  
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Teaching Assistant: Jane Rozum  
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Text: Numerous texts could be used for this course. However, the following books will be used often:  

Supplemental bulletin not required: Best Perennials for the Rocky Mountain and High Plains.  

Lecture and Laboratory: Lectures will be in 212 Shepardson. Some lab time will be spent in the field observing annual and perennial plants and their use, along with site analysis for design and use projects. Labs will meet in University Greenhouse Room 114 and Room 115.

Please bring your I-clicker to each lecture period. Starting the 2nd week of class, I-clickers will be used during each lecture. There will be no substitute clickers for your use nor will there be points given for those students that forget their clicker. I-clickers can be purchased in the CSU bookstore. Go to clicker@colostate.edu and follow directions for I-clicker student registration. Please ask TA for help with I-clicker problems. I-clickers can be purchased at the CSU bookstore. Go to http://clicker.colostate.edu/ ‘Student Clicker Registration’ to enter your student ID and I-clicker number. See TA for questions.

Plant Identification: Plant list and pictures of annuals and perennial plants can be found on a web site. To access course material: http://klett.agsci.colostate.edu/, click on Hort 322. The current week’s plant specimens (only annuals) can be viewed in the University Greenhouse. Hours for the University Greenhouse will be announced and posted. We will also supply you with a CD with all photos and plant lists for the class and will be placed on RamCT. Two CDs will be given – one for the annuals part of the course and the second for herbaceous perennials.

Class Field Trip: An all day field trip to the Denver area to observe annual and perennial flower displays in Denver city parks, Denver Botanic Gardens, and other locations in Denver is planned for Monday, September 9, 2013. If you are unable to go on the trip, you will be required to write an additional written report on annual flower bed design. It is your responsibility to inform the instructor if you are not going on this field trip. Bus leaves promptly at 8 am and will return by 5 pm.

Exams and Quizzes: There will be seven plant identification quizzes given during the first half hour of the laboratory period. Six plant quizzes will count toward 30% of your final grade, and the lowest plant quiz grade will be dropped. All plant quizzes will be comprehensive over all plants covered in the course. (Annual quizzes comprehensive for annuals and perennial quizzes comprehensive for perennials). No makeup quizzes will be given. A skipped quiz will be recorded as a zero or your dropped quiz. Quizzes will be given on Mondays during lab time.

Two hour exams will be given covering both lecture and laboratory material at approximately 6 and 11 weeks into the semester. The final written exam will cover the last third of the course, and the final lab identification exam will cover all the plant material studied throughout the course. The final I.D. exam and final lecture test will be given during final exam week.
**RamCT Blackboard:** This class also has a RamCT Blackboard component, check often for class announcements.

**Class/Lab Projects:** There will be two assigned projects during the duration of the semester. One will deal with annual flower bed design and use, and the other with perennial flower bed design and use. Approximately 2 or 3 students will work together on these projects, and each is expected to do their assigned duties. If one student in the group feels the other person is not doing their fair share, it is the responsibility of that student to inform me of this concern. I will make every effort to remedy this situation. The same grade will be given to all students working together in a group unless partner evaluations significantly vary. Students in groups will grade their fellow students in their group on participation and completeness of their part of the work. Grading emphasis will be on choice of plants for location and following instructions for the project. A Powerpoint presentation of project is expected.

**Grading Allocations:**

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<tr>
<th>Component</th>
<th>Percentage</th>
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<tr>
<td>Two - one hour lecture exams (written)</td>
<td>25% (12.5% for each)</td>
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<td><strong>FINAL EXAM</strong>-lecture (over last 3rd part of course only)</td>
<td>13%</td>
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<tr>
<td>Two lab projects</td>
<td>15% (7.5% for annuals and 7.5% for perennials)</td>
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<td>Seven Plant I-D quizzes (3 on annuals, 4 perennials, will count a total of 6)</td>
<td>30%</td>
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<td>One Final ID exam (over all plants covered in course)</td>
<td>12%</td>
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<td>I-Clicker Questions and Attendance</td>
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Total: 100%

Letter grades will generally fall: 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 and participation in class, and laboratory will be considered for borderline cases.

No cell phones, etc. will be allowed to be used in class, especially when taking any quizzes or exams.

**Grading System for Identification Quizzes and Final I-D Exam:**

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<tbody>
<tr>
<td>A</td>
<td>Genus</td>
<td>Species</td>
<td>Cultivar</td>
<td>Common Name</td>
<td>10 points</td>
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<td>5 points</td>
<td>2 points</td>
<td>1 point</td>
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<tbody>
<tr>
<td>B</td>
<td>Genus</td>
<td>Species</td>
<td>Cultivar</td>
<td></td>
<td>10 points</td>
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<td>5 points</td>
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*Every spelling mistake results in the loss of one-half point. If you miss in excess of three letters per word, no credit will be given for either the genus, species, cultivar or common name.*
Course Objectives:
1) To learn the identification and proper nomenclature of annuals, perennials (including some wildflowers), and spring and fall blooming bulbs grown in the Rocky Mountain and High Plains Regions.

2) To develop an understanding of the cultural requirements including soil, moisture, light, etc. and flowering time and duration for annuals, perennials, spring and fall blooming bulbs grown in the Rocky Mountain and High Plains Regions.

3) To learn the proper landscape use and placement of annuals, perennials, spring and summer bulbs through student projects involving the design of annual flower beds, traditional European style and contemporary perennial beds, and placement of spring and fall blooming bulbs in both.

4) To develop an understanding of specific propagation techniques for annuals, perennials, spring and fall bulbs and other unique cultural techniques for these plants.

Course Outline:
1) **Annuals**
   a) Introduction and type of bedding (carpet, par-terre, tropical, ribbon, etc.).
   b) Bedding plant production areas - major seed and vegetative companies in the United States and World.
   c) Principles involved in bedding (annual) plant design including projects actually designing beds for parks, industrial areas, etc.
   d) Culture, special growing requirements, major identification features, landscape uses of approximately 60+ annual plants.

2) **Perennials**
   a) Introduction and explanation of designing of perennial flower gardens (planning the garden on paper - month by month - color harmonies)
   b) Different types of perennial borders, their preparation, nature of color and meaning of color in them.
   c) Actual designing of perennial borders in landscapes for residential, commercial or city use.
   d) Culture, special growing requirements, major identification features, landscape use of approximately 100 perennial plants.
   e) Maintenance in perennial borders - (watering, propagation, division, overwintering, major disease and insect problems).

3) **Spring Bulbs**
   a) Introduction and explanation of how spring and fall bulbs can be incorporated into annual and perennial flower beds.
   b) Culture - special growing requirements, major identification features and landscape use of major spring and fall blooming bulbs.
   c) Propagation techniques and special growing requirements of bulbs covered.

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*

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