Production of Floriculture Crops
HS 442
Spring 2003

Instructor: John Dole
158 Kilgore Hall
515-3537

Assistants: Gabriele Gusmini, 515-1220
Diane Mays, 515-2685

Office Hours: Any time I'm available. Please call first or make an appointment whenever possible.

Prerequisites: HS 440

Required Texts: Floriculture Principles and Species, Dole and Wilkins.

Course Objectives:
* To provide students with cultural programs for commercially produced major floriculture crops.
* To provide students with practical experience in growing floriculture crops.
* To teach the physiological processes which form the basis for floriculture crop production.
* To build a book of resource reference material for future use.

Class Work:

<table>
<thead>
<tr>
<th>Component</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>6 mini-tests (drop one)</td>
<td>200</td>
</tr>
<tr>
<td>Final exam</td>
<td>100</td>
</tr>
<tr>
<td>4 assignments</td>
<td>40</td>
</tr>
<tr>
<td>Case study</td>
<td>50</td>
</tr>
<tr>
<td>Class participation</td>
<td>40</td>
</tr>
<tr>
<td>Plant production (plant quality)</td>
<td>50</td>
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<tr>
<td>Greenhouse log</td>
<td>40</td>
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<tr>
<td>Term project</td>
<td>150</td>
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<tr>
<td>Field trip</td>
<td>40</td>
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<tr>
<td>Total</td>
<td>710</td>
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Total points: 710
Grading Policy:  The following scale will be used, but may be curved if needed based on percentage of total points possible.

Grading Scale:  
- 97% and higher  A+
- 93 - 96%  A
- 90 - 92%  A-
- 87 - 89%  B+
- 83 - 86%  B
- 80 - 82%  B-
- 77 - 79%  C+
- 73 - 76%  C
- 70 - 72%  C-
- 67 - 69%  D+
- 63 - 66%  D
- 60 - 62%  D-
- 59% and lower  F

Absences:  Exams can be made up ahead of time if the student will be missing the exam for legitimate reasons. Arrangements must be made at least five school days prior to the exam date. Unintentional absence from an exam will be excused only with notification prior to or during the exam and with a legitimate reason. If I can't be reached, a message left with the secretary will be sufficient for prior notification. Proof of legitimate reasons may be required in the form of a written note from a doctor or advisor.

Field Trip:  A field trip to area greenhouses is required for all students enrolled in the course. Transportation will be provided, but you will be responsible for meals. I will give you the date as soon as it is finalized.

Group Projects:  Students will be divided into groups of two. The term project must be turned in by all students. Failure to do so will result in an incomplete. Late projects will have 10% off the grade deducted for each school day that it is late.

Homework Assignments:  Late assignments will have 2 points deducted for each school day they are late.

Attendance:  Attendance will not be included in formal grading. However, you should attend all labs and lectures to be successful in this course.

Final Exam:  Friday, May 9, 8 - 11 am.
# HS 442 COURSE SCHEDULE

<table>
<thead>
<tr>
<th>Jan.</th>
<th>9</th>
<th>Introduction, Potted plants - Euphorbia</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>9</td>
<td>Lab - Start plant production</td>
</tr>
<tr>
<td>Jan.</td>
<td>14</td>
<td>Potted plants - Euphorbia</td>
</tr>
<tr>
<td></td>
<td>16</td>
<td>Potted plants - Euphorbia</td>
</tr>
<tr>
<td></td>
<td>16</td>
<td>Lab - Continuing production</td>
</tr>
<tr>
<td>Jan.</td>
<td>21</td>
<td>No class</td>
</tr>
<tr>
<td></td>
<td>23</td>
<td>Potted plants - Euphorbia</td>
</tr>
<tr>
<td></td>
<td>23</td>
<td>Lab - Mini-test</td>
</tr>
<tr>
<td>Jan.</td>
<td>28</td>
<td>Case study #1, Potted plants - Saintpaulia</td>
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<tr>
<td></td>
<td>30</td>
<td>Potted plants - Tulipa</td>
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<tr>
<td></td>
<td>30</td>
<td>Lab - Assignment #1 due</td>
</tr>
<tr>
<td>Feb.</td>
<td>4</td>
<td>Case study #2, Potted plants - Rhododendron</td>
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<tr>
<td></td>
<td>6</td>
<td>Potted plants - Class choice</td>
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<tr>
<td></td>
<td>6</td>
<td>Lab - Mini-test</td>
</tr>
<tr>
<td>Feb.</td>
<td>11</td>
<td>Case study #3, Bedding plants - Introduction</td>
</tr>
<tr>
<td></td>
<td>13</td>
<td>Bedding plants - Introduction</td>
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<tr>
<td></td>
<td>13</td>
<td>Lab - Assignment #2 due</td>
</tr>
<tr>
<td>Feb.</td>
<td>18</td>
<td>Bedding plants - Introduction</td>
</tr>
<tr>
<td></td>
<td>20</td>
<td>Bedding plants - Introduction</td>
</tr>
<tr>
<td></td>
<td>20</td>
<td>Lab - Mini-test</td>
</tr>
<tr>
<td>Feb.</td>
<td>25</td>
<td>Case study #4, Bedding plants - potted annuals, baskets, patio plants</td>
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<tr>
<td></td>
<td>27</td>
<td>Bedding plants - Impatiens</td>
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<tr>
<td></td>
<td>27</td>
<td>Lab - Assignment #3 due</td>
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<tr>
<td>Mar.</td>
<td>4</td>
<td>Case study #5, Bedding plants - Viola</td>
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<td></td>
<td>6</td>
<td>Bedding plants - Pelargonium</td>
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<tr>
<td></td>
<td>6</td>
<td>Lab - Mini-test</td>
</tr>
<tr>
<td>Mar.</td>
<td>10-14</td>
<td>Spring Break</td>
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<tr>
<td>Mar.</td>
<td>18</td>
<td>Bedding plants - Lycopersicon</td>
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<tr>
<td></td>
<td>20</td>
<td>Bedding plants - Perennials, Echinacea, Dendranthema</td>
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<tr>
<td></td>
<td>20</td>
<td>Lab - Work on term projects</td>
</tr>
<tr>
<td>Mar.</td>
<td>25</td>
<td>Bedding plants - Misc. Perennials</td>
</tr>
</tbody>
</table>
27 Bedding plants - Class choice
27 Lab - Mini-test

Apr. 1 Foliage plants - Introduction
3 Field trip
3 Lab - Field trip

Apr. 8 Foliage plants - Epipremnum, Draceana
10 Foliage plants - Misc. species, class choice
10 Lab - Term Projects due

Apr. 15 Cut flowers - Introduction, Rosa
17 No class
17 Lab - no class

Apr. 22 Cut flowers - Outdoor cuts
24 Cut flowers - Misc. annual and perennial outdoor cuts
24 Lab - Mini-test, grade bedding plants

Apr. 29 Cut flowers - Misc. woody outdoor cuts
May 1 Cut flowers - Class choice
1 Lab - Production logs due

May Final Exam, 8:00 to 11:00 am
PLANT MATERIALS

Each person will be responsible for watering, fertilizing and all other care during the week, Monday through Friday. Report insects and diseases as soon as possible to Diane Mays. Diane will have only the plants she is told about sprayed. Greenhouse crew will water plants with clear water only from 12 noon Saturday to 5 pm Sunday. Remember to check plants on Friday, they might wilt severely by Saturday noon. Also, note that plants will not receive fertilizer on the weekends.

Plants will be graded based on quality and proper timing. Prompt watering will result in high quality plants and a high grade. Plant quality will not be affected if plants wilt slightly and occasionally (ie. once a month); however, if plants wilt severely and often (ie. once a week) then quality will suffer greatly. Also, proper fertilization and prompt potting, disbudding, insect control, etc. is needed to produce good plants.

House IIW1, warm and sunny, each person will have 1/2 bench to grow the following plant materials:

Potted flowering plants
- Chrysanthemum ‘Presidio’ - 8 week, tall, pink decorative
- Chrysanthemum ‘Tijuana’ - 8 week, medium, raspberry spray
- Sunflowers ‘Munchkin’ and other cultivars

Bedding Plants - flats
- Begonia ‘Prelude Bicolor’
- Gazania ‘Daybreak Red Stripe’
- Impatiens ‘Dazzler Red’
- Marigold ‘Little Devil Fire’
- Tomato ‘Heartland’
- Vinca ‘Cooler Raspberry Red’

Bedding plants - pots
- Geranium ‘Glamour Rose Pink’
- Geranium ‘Wilhelm Longguth’
- Pepper ‘Medusa’

Bedding plants - hanging baskets
- New Guinea impatiens
- Mixed baskets

Cut flowers
- Sunflower ‘Sunrich Orange’
- Lisanthus ‘Malibu Deep Rose’
House IIW2, cool and sunny, each person will have 1/2 bench to grow the following plant materials:

**Potted flowering plants**
- Tulips, daffodils, narcissus, hyacinth

**Bedding Plants** - Flats

**Bedding plants** - mixed containers
- Large pots

**Cut Flowers**
- Trachelium ‘Spring Wine Red’
- Snapdragon ‘Yosemite Pink’
GREENHOUSE RULES DURING LABORATORY

* Each lab period we will meet in the classroom area of the teaching greenhouse, unless otherwise instructed.

* I suggest you not wear good clothes to lab. Be prepared to get wet and dirty.

* Wear shoes with tread. The floors are very slick when they are wet.

* Keep hose ends off of the floor. This will help prevent the spread of diseases.

* No tobacco use of any kind in the greenhouse or headhouse.

* Close all doors behind you. It may be hot during the last few weeks of class and keeping the doors closed will allow the cooling to work at maximum capacity.

* Do not sit, stand, or put your foot on any of the greenhouse benches. This will also help prevent the spread of diseases.

* Label all plant material.

* Do not remove any plant material from greenhouses without approval from Diane.

* Dead/dying plant material must be removed promptly.

* CLEAN UP AFTER YOURSELF !!!!!!