HORT 351

Vegetable Crop Production

Syllabus
Spring 2004

Instructor:
Dr. S. Furutani
Office CAB Rm 101B
Office hrs. by appt.
Phone 933-0852 w/voice mail
Email furutani@hawaii.edu

Class meeting times and location:
Lecture Friday, 10:00 to 11:40 am
Lab. Friday 12:00 to 2:30 pm CAB 201 or at CAFNRM Farm Lab.

Prerequisites:
Hort 262.

Course Objectives:
To introduce students to (1) vegetable production, cultural methods, variety selection, and marketing, and (2) commercial growing operations in Hawaii.

Lecture Topics:

1. Classification systems used for vegetable crops.
2. Production statistics and marketing.
3. Climatic requirements of vegetables and the effect of climate on crop growth.
4. Cultural practices associated with various crops with an emphasis on Solanaceous crops, Cucurbits, Legumes, Salad crops, and Cole crops.
   a. planting
   b. fertilization
   c. pest control (weeds, insects and diseases)
   d. harvesting

Laboratory Topics:

1. Student participation in the growing of various crops. Includes land preparation, planting, control pests, fertilization, harvesting.
2. Participation in the grading and marketing of vegetable crops. Includes grading, packing and sales.
Evaluation/Grading:

<table>
<thead>
<tr>
<th>Exams</th>
<th>Date</th>
<th>Points</th>
<th>Grading</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Mid-term</td>
<td>Feb 27</td>
<td>100</td>
<td>A = 405 - 364</td>
</tr>
<tr>
<td>Second Mid-term</td>
<td>April 16</td>
<td>100</td>
<td>B = 363 - 324</td>
</tr>
<tr>
<td>Final exam</td>
<td>To be arranged</td>
<td>100</td>
<td>C = 323 - 283</td>
</tr>
</tbody>
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Laboratory:

<table>
<thead>
<tr>
<th>Field participation</th>
<th>55</th>
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<tbody>
<tr>
<td>Term Paper</td>
<td>50</td>
</tr>
<tr>
<td>Total</td>
<td>405</td>
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</tbody>
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*Any student with a documented disability who would like to request accommodation should contact either the instructor or Student Services as early in the semester as possible.*

*Covered shoes are required for all labs. Student will not be allowed to participate if this requirement is not met - UHH-CA policy on farm safety.*
Guide for Term Paper:

Objective: To familiarize the student with obtaining information on crop production and marketing.

Choosing a topic: Topics are confined to vegetable crop production or innovative horticultural practices. Consult with the instructor if you have questions or problems in identifying a topic.

Scope: The paper should review the topic thoroughly. Literature citations are encouraged.

Format: Paper must be type-written and double spaced. Hand-written papers will not be accepted.

The topic should be approached systematically. The outline presented below is an example of an acceptable format:

A. Title
B. Introduction - Statistics (import vs production)
   1. biology - climatic - soil requirements.
   2. origin
   3. morphology
C. Crop Culture
   1. land preparation
   2. fertility
   3. planting and time to harvest
   4. pest and pest control
D. Harvesting
   1. marketable stage
   2. method for harvesting crop
   3. Hawaii's standard of grading
E. Post Harvest
   1. best storage method
   2. shelf-life
F. Economics
   1. Cost of producing the crop
   2. Seasonal farm price for the crop
   3. income per acre.
G. Conclusion
H. Literature Cited
Citations: Articles are numerically i.e., (1, 2, 3 etc.) cited in text. Articles are arranged alphabetically by author's last name in Literature Cited. Alphabetically arranged articles are preceded by corresponding numeral in text.

Example: Text
Seasonal dormancy in ginger maybe induced by photoperiod and temperature (3).

Literature Cited

Class policies:

a. Exams & Quizzes - No make ups will be given.
   Exceptions are:
   1. Medical - Doctor's verification required.
   2. Family Crisis - arrangements to be prior to exam date.

b. Lab Reports: Due at the start of the following lab period.

c. Term Paper: April 30, 2004

d. Risk and release forms: All students enrolled will complete the UHH-Risk and Release Form.

e. Late assignments. 10% per day late.