

**Fall 2001**

**Hort 100**

**Introduction to Horticulture**

**Lecture: M, W 12:00-12:50 p.m.**

**Lab:** Check schedule for your lab section hour

**Instructors:** Aida A. Khalil (Lecture) & Bob Hasegawa (Lab)

**Office:** 110 Spader

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**Office Hours:** M 1-2 pm, T 12-1 pm, R 4-5 pm, F 10-11pm and by appointment

**Required Text:** Laura & Robert Rice, *Practical Horticulture*, 4<sup>th</sup> edition. Prentice Hall: 2000

**Recommended Text:** American Horticultural Society, *Encyclopedia of Gardening*

**Recommended Journals:** *Horticulture* and *Garden Design*

**Course Objectives:** Upon successful completion of this course you will have:

- a general understanding of plant processes, function, reproduction and growth;
- a basic knowledge of the factors affecting outdoor and indoor plant culture;
- an overall view of the industries and career opportunities in the field of horticulture.

**Course Format:** The lectures are organized in three parts. The first covers the fundamentals of horticulture; the second addresses the culture of outdoor and indoor plants; and the third focuses on the industries within the field of horticulture. In addition, you will be involved in some hands-on horticultural practices during a weekly lab hour conducted by Mr. Bob Hasegawa at the greenhouses.

**Attendance:** Attendance is required for all scheduled classes and counts in your final grade. Only excused absences are acceptable so please notify me if you cannot attend class. It is your responsibility to make up the lost class and to obtain copies of class notes, handouts, and assignments from one of your classmates. If you miss more than five classes you are strongly advised to drop the course or expect to receive a final grade no higher than a D..

**Participation:** Both lecture and lab sessions will rely on student interaction and discussion of topics and therefore participation includes coming to class prepared, listening and being an active part of the group, sharing your knowledge, ideas and questions with the class.

**Submittals:** You should make every effort to turn in assignments and projects on the day they are due. I will not accept a late submission unless you had prior approval.

**Class Conduct:** If you are not already familiar with it, please take a moment to review the "Code for Academic Honesty" and "Statement of Responsibility" in your student handbook. In addition, the use of the Internet, computer games, music CD's, etc. will not be tolerated during class time. Remember that you have a big role in how informative, interesting, and fun our class environment can be.

**Evaluation:** Your final grade will be calculated on the following point system.

600 points Exams {Note: Your lab grade counts as one exam grade}

300 points Topic Paper

100 points Attendance & participation

1000 points Total

**Grading Scale:**

A = 930 - 1000

A- = 900 - 920

B+ = 870 - 890

B = 830 - 860

B- = 800 - 820

C+ = 770 - 790

C = 730 - 760

C- = 700 - 720

D+ = 670 - 690

D = 630 - 660

D- = 600 - 620

F = 590 or less

**Introduction to Horticulture****C o u r s e O u t l i n e**

[Note: If necessary, this course outline may be modified as the semester progresses.]

<b><u>Week</u></b>	<b><u>Lecture Topics</u></b>	<b><u>Reading Assignment</u></b>	
1. Aug 27 <sup>th</sup> , 29 <sup>th</sup>	<b>Introduction</b> Professional & Recreational Horticulture		
2. Sept. 3 <sup>rd</sup> , 5 <sup>th</sup>	<b>Climate &amp; Plant Growth</b> <ul style="list-style-type: none"> <li>• Climate/Hardiness</li> </ul>	Chapter 1	pages 11-21
3. Sept. 10 <sup>th</sup> , 12 <sup>th</sup>	<b>Plant Classification</b> <ul style="list-style-type: none"> <li>• Nomenclature &amp; Classification</li> <li>• Anatomy &amp; Physiology</li> </ul>	Chapter 2 Chapter 2	pages 23-27 pages 27-39
4. Sept. 17 <sup>th</sup> , 19 <sup>th</sup>	<b>Plant Growth &amp; Development</b> <ul style="list-style-type: none"> <li>• Plant Life Cycles</li> <li>• Hormones &amp; Growth Regulators</li> </ul>	Chapter 3 Chapter 3	pages 41-50 pages 50-53
5. Sept. 24 <sup>th</sup> , 26 <sup>th</sup>	<b>Plant Propagation</b>	Chapter 4	pages 55-78
<b>***EXAM I***</b>			
6. Oct. 1 <sup>st</sup> , 3 <sup>rd</sup>	<b>Outdoor Plants</b> <ul style="list-style-type: none"> <li>• Soils &amp; Fertility</li> </ul>	Chapter 5	pages 81-101
<b>***October Break Oct. 8-9***</b>			
7. Oct. 10 <sup>th</sup> ,	<b>Outdoor Plants</b> <ul style="list-style-type: none"> <li>• Vegetable Gardens</li> <li>• Flower &amp; Herb Gardens</li> </ul>	Chapter 6 Chapter 9	pages 103-134 pages 169-188
8. Oct. 15 <sup>th</sup> , 17 <sup>th</sup>	<b>Outdoor Plants</b> <ul style="list-style-type: none"> <li>• Fruit &amp; Nut Trees</li> <li>• Small Fruit Garden</li> </ul>	Chapter 7 Chapter 8	pages 137-151 pages 153-166
9. Oct. 22 <sup>nd</sup> , 24 <sup>th</sup>	<b>Outdoor Plants</b> <ul style="list-style-type: none"> <li>• Landscape Maintenance</li> <li>• Outdoor Plant Disorders</li> </ul>	Chapter 11 Chapter 13	pages 213-234 pages 253-273
<b>***Exam II***</b>			

<b>10.</b> Oct. 29 <sup>th</sup> , 31 <sup>st</sup>	<b>Indoor Plants</b> <ul style="list-style-type: none"> <li>• Plant Maintenance</li> <li>• Potting Media &amp; Fertilizer ,</li> </ul>	Chapter 14    pages 283-292 Chapter 15    pages 303-318
<b>11.</b> Nov. 5 <sup>th</sup> , 7 <sup>th</sup>	<b>Indoor Plants</b> <ul style="list-style-type: none"> <li>• Light, Water &amp; Humidity</li> <li>• Pests &amp; Diseases</li> </ul>	Chapter 16, 17    pages 321-354 Chapter 18    pages 357-371
<b>12.</b> Nov. 12 <sup>th</sup> , 14 <sup>th</sup>	<b>Floriculture Production Industry</b> <ul style="list-style-type: none"> <li>• Bedding Plant Industry</li> <li>• Greenhouse Management</li> </ul>	Video & Discussion
<b>13.</b> Nov. 19 <sup>th</sup> , ***	<b>Nursery Industry</b> <ul style="list-style-type: none"> <li>• Container &amp; Field-grown Plants</li> </ul>	Video & Discussion
<b>***Thanksgiving Break November 21-23***</b>		
<b>14.</b> Nov. 26 <sup>th</sup> , 28 <sup>th</sup>	<b>Landscape Industry</b> <ul style="list-style-type: none"> <li>• Principles of Landscape Design</li> <li>• Elements of Pruning</li> </ul>	Video & Discussion
<b>15.</b> Dec. 3 <sup>rd</sup> , 5 <sup>th</sup>	<b>Floral Industry</b> <ul style="list-style-type: none"> <li>• Holland Flower</li> </ul>	Video & Guest Speaker
<b>16.</b> Dec. 10 <sup>th</sup> , 12 <sup>th</sup>	<b>Turfgrass Industry</b> <ul style="list-style-type: none"> <li>• Professional Turf Management</li> </ul>	Video & Guest Speaker

**\*\*\*Enjoy Your Holidays\*\*\***

**Introduction to Horticulture****R e s e a r c h   T o p i c   P a p e r****Paper Format**

Choose one of the topics listed below to conduct a research. Make an appointment with me to discuss your topic and the scope of your research. You may propose another topic of particular interest to you that is not listed here. Write a paper with a minimum of five pages, typed and double spaced. Substantiate your claims and findings with quotes, graphics and references.

Organize your text in three main sections:

- I. Introduction: Here you present an overview that may include a history or background discussion of the topic.
- II. Body Text: In this major section of the paper you present and discuss your research, findings, and ideas about the topic. Include information on current trends and applications in the field as well as future anticipated directions.
- III. Conclusion: End your paper with a strong presentation of the overall importance and relevance of this topic to the field of horticulture.

Include a cover page with the paper's title, your name, course number, instructor's name and date. Include a list of all the sources you used. **Paper is due on Nov 28<sup>th</sup>.**

**Topics**

1. Garden History
2. Botanic Gardens/Arboreta
3. Theme Gardens
4. Organic Gardening
5. Composting
6. Management of Invasive Plant Species
7. Plant Disease Epidemics
8. Weed, Insect, Disease Control/ IPM
9. Mulches: Uses and Types
10. Groundcovers: Species and Uses
11. Hydroponics
12. Right Plant/ Right Place
13. Companion Plantings
14. Role of Women in the Landscape Industry
15. Uses of Computer Technology in Horticultural Fields
16. Plant Genetic Engineering
17. Eco-Terrorism
18. Flower Crop Production (Ex. Poinsettia/ Geranium)
19. Innovative Greenhouse/Landscape Equipment & Tools
20. Turf Issues                      Turf Seed Research/Varieties; Seed Companies-Specialties/Varieties  
  Hydro seeding vs. sodding  
  Diseases

**Sources of Information**

- |  |                                   |
|--|-----------------------------------|
| Books                                  | Garden Centers                    |
| Trade Journals                         | Landscape Companies/Professionals |
| Garden, Landscape & Nursery Catalogues | University Research               |
| Cooperative Extensions                 | Websites                          |

