

**Plant Propagation**  
**PBIO 305 Call # 05405**  
4 Credit Hours  
Winter Quarter 2007

**Instructor:** Harold W. Blazier  
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**Office Hours:** By appointment  
**Assistant:** Aaron Mather (mathera@ohio.edu)

**Schedule:** Tuesday 3:10 - 5:00 Porter Hall 301  
Thursday 2:10 – 5:00 Porter Hall 301  
A Saturday (all day) trip to Columbus, OH

**Overview:** Course will cover information with regard to various aspects and procedures as they relate to the field of horticulture. These may include topics such as the following: pest and disease diagnostics and control, sexual and asexual propagation methods, greenhouse structure and equipment selection and use, planting media and hard goods selection and use, chemical handling and responsibility and safety, various methods of growing and caring for certain selected plants, identification and information of some of the more typical plants used in horticulture, and so forth. Students will also be required to present information, in a prescribed format to the class, on an approved topic as it relates to horticulture.

**Format:** Lecture / Lab / Field Trip

**Text:** none required

**Grading:** quizzes, mid-term, presentation, presentation participation, final exam

<b>Grading</b>					<b>total</b>
quiz scores	18	18	18	18	<b>72</b>
mid-term					<b>100</b>
Presentation					<b>30</b>
Presentation participation					<b>5</b>
Final					<b>118</b>
<b>Total Possible Points</b>					<b>325</b>

**Grade Cutoffs:**

A 93-100%, A- 90-92%, B+ 87-89%, B 83-86%, B- 80-82%,  
C+ 77-79%, etc. ....

**Quizzes:** Information obtained from Plant ID segment of class.

**Plant ID:** Identification and general information about a few specific plants important to the field of horticulture. May include - scientific name, common name, care, uses, economics, etc. (15 per week)

**Presentation:** 15 minute, topic relating to the field of horticulture, topic must be approved by instructor (research, procedures, innovations, marketing, etc.) Print out (of slides, notes, script), copy of references cited, or a disk must be turned in to instructor immediately following presentation, these may not be returned.

**Saturday field trip:**

wholesale nursery (woody ornamentals)  
retail grower (greenhouse & garden center)  
OSU Horticulture and Crop Sciences (research greenhouse)  
OSU Biological Sciences Department (research and teaching collections)

**Attendance:** While not formally taken, attendance is expected at each class meeting. Missed quizzes and tests may be made up only with adequate proof of a legitimate absence as defined by Ohio University policy.

**Academic:** Academic dishonesty (cheating, plagiarism, etc.) on a quiz, exam or assignment will result in failure of the course and referral to the Office of University Judiciaries.

**Final Exam:** Monday, **March 12<sup>th</sup>**, 12:20 – 2:20, Porter Hall 301

**PBIO #305 – Plant Propagation** Winter Quarter 2007

	<b><u>Tuesday</u></b> <b>3:10-5:00</b>	<b><u>Thursday</u></b> <b>2:10-5:00</b>
<b><u>Week 1</u></b> Jan. 04		course outline & introduction  horticulture terminology  plant ID
<b><u>Week 2</u></b> Jan. 09 Jan. 11	greenhouse buildings, structures, equipment & uses  plant ID	asexual propagation (Part 1)  plant layering lecture  air-layering lab
<b><u>Week 3</u></b> Jan. 16 Jan. 18	watering, repotting, general plant care & maintenance  plant ID  <b>QUIZ #1</b>	soiless media, components, uses, etc.  hydroponics lecture  hydroponics lab
<b><u>Week 4</u></b> Jan. 23 Jan. 25	greenhouse construction (field trip / first hour)  plant ID	commercial tissue culture (field trip)
<b><u>Week 5</u></b> Jan. 30 Feb. 01	diagnostics – pests & pathogens  plant ID  <b>QUIZ #2</b>	pests & pathogens con't.  propagation by spores  spore sowing lab
<b><u>Week 6</u></b> Feb. 06 Feb. 08	<b>MID-TERM TEST</b>  plant ID	sexual propagation by seed  seeding lab
<b><u>Week 7</u></b>	plant grafting lecture	asexual propagation (Part 2)

Feb. 13 Feb. 15	plant ID  <b>QUIZ #3</b>	cuttings lab
<b>Week 8</b>  Feb. 20 Feb. 22	plant grafting lab  plant ID	commercial greenhouse (field trip, tentative)
<b>Week 9</b>  Feb. 27 Mar. 01	MSDS, REI's, PPE's, chemical labels, etc.  <b>QUIZ #4</b>  plant ID	student presentations
<b>Week 10</b>  Mar. 06 Mar. 08	finish air-layering lab and other misc.  ** meet at dept. greenhouse **  plant ID	commercial greenhouse (field trip, tentative)

**Saturday Field Trip -**

tentatively scheduled February 24<sup>th</sup>  
(alternate date will be February 17<sup>th</sup>)