

INDOOR PLANTS - HORT 2144
FALL 2002

COURSE COORDINATOR: Dr. Jerry Williams

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Your Instructor: _____

Office Number and Hours: _____

E-mail Address: _____

COURSE INFORMATION

REQUIRED TEXT: Indoor Plants, Helina Heitz, Barron's Educational Series, Inc. It is available in the campus bookstore, Tech Bookstore and Volume Two Bookstore.

SUPPLY FEE: A \$35 fee is required to offset the cost of the materials received in this course. PAYMENT BY CHECK made out to **Treasurer, Virginia Tech** is preferred, but cash will also be accepted. Receipts will be issued for all payments. Please save your receipt should proof of payment ever be needed. Your Lab Fee is to be paid on **September 10 or September 12 - only**.

GREENHOUSE PLANT COLLECTION: Specimens on the plant list that you are required to learn are located in greenhouse section #10A, at the end of the corridor from the classroom off the double outside doors. It will be open for study from **8:30 am to 4:30 pm, Mon.-Thur., 8:30-4 pm Friday**, and is **CLOSED** at all other times. *See the plant list attached for additional information.*

LABS: The lab greenhouse will be open only during your class meeting time. Please try to take projects home with you right after class to avoid the opportunity for theft. You may leave your projects in the lab greenhouse if necessary and return to pick them up later. However, please keep in mind that although we take every precaution to secure our greenhouses, occasionally items get stolen. As such, we cannot accept responsibility for thefts and no replacements will be provided. If you need to secure one of your projects from the locked greenhouse when an "Indoor Plants" instructor is not available, please contact our greenhouse supervision, Rob Tanzer, (rtanzer@vt.edu) in advance.

MISSED LABS: Attendance is the responsibility of the student and legitimate absences should be brought to the attention of the instructor **IN ADVANCE**, where circumstances permit. Your instructor has the option to deny any student the opportunity to make up labs that have been missed without notification.

MISSED EXAMS: Students will be given a grade of "zero" on exams that have been missed without a legitimate reason. It is **absolutely essential** that you or a spokesperson notify your instructor, the course coordinator or our secretary (Donna Long) of an emergency absence in advance of the exam, but certainly **prior to the time** at which the review exam session (see Class Schedule) will occur; if you fail to do so, **no makeup exam will be given**. ALL STUDENTS MUST TAKE THE FINAL EXAM DURING "FINALS WEEK".

ATTENDANCE: Attendance is not mandatory, but it is expected that you will be sufficiently committed to your education to make sure that you attend classes regularly. To reward those who make the effort to attend all class sessions, 10 points will be added to your numerical total prior to assigning final letter grades. In order to be eligible for this bonus, you **cannot miss more than 1 class session** after the "last day to add classes (August 30)". You will be required to sign an attendance sheet at the beginning of each lecture with a legible signature (**no initials**) in ink. Signing the attendance sheet for a student not present is an act of falsification and a violation of the Virginia Tech Honor Code.

GRADING: There will be 3 plant ID exams and 3 written multiple choice/fill in the blanks/short answers exams in this class, and your final grade will be determined from the *total number of points* you receive out of 300:

‡ I. D. Exam #1 (20 points), Written Exam #1 (60 points): 9/24/02

‡ I.D. Exam #2 (20 points), Written Exam #2 (60 points): 10/29/02

‡ Final I.D. Exam (60 points): 12/5/02

‡ Common Time Written Final (80 points): 12/19/02, 7:45-9:45am

• **All I.D. exams are comprehensive and plant name spelling errors will be penalized:**

- ◆ I.D. Exam #1 will require you to name 10 randomly chosen plants from the **first 28** on your plant list (end at Scented Geranium).
- ◆ I.D. Exam #2 will require you to name 10 randomly chosen plants from the **first 52** on the plant list (end at Hybrid Cattleya).
- ◆ The Final I.D. Exam will consist of 30 randomly chosen plants from the ENTIRE LIST.

• **The Written Exams:**

(Exam #1 will cover lecture and lab materials through September 19.

(Exam #2 will cover primarily, but not exclusively, lectures and lab materials since Exam #1.

(The Common Time Final will cover lectures and lab materials from the entire semester.

• **Final Grades:**

Final grades will be assigned based on the following numerical point scale:

A-, A = 269 - 300 points

C-, C, C+ = 209 - 238 points

F = 178 or less points

B-, B, B+ = 239 - 268 points

D-, D, D+ = 179 - 208 points

*P/F

*P/F students must attain a minimum total of **189 points** in order to "Pass" this course.

Final grades will be based solely on exam scores - no other provisions, such as special reports, projects, etc. will be considered.

COURSE WEBSITE: A course website (www.filebox.vt.edu/users/williamj/hort2144/) is provided in this class to enhance the learning process. It is not intended to serve as an alternative to attending class, but instead to reduce the amount of superfluous writing and note-taking. It is suggested that you print copies of the lecture outlines, bring them to class and fill in with written notes as necessary. Please be aware that if you miss a lecture for any reason, the website topic outlines are the only written information we provide. If such a circumstance arises, you should secure specific notes from a fellow classmate

READINGS: Some lectures are accompanied by text pages in parentheses (See "Class Schedule"). Please read these pages in order to enhance your understanding of the subject matter. This information may be included on the exams.

CLASSROOM ETIQUETTE: Talking to classmates during lectures is disruptive to other students around you, disrespectful to your instructor and just plain rude. **Please be conscious of your cellular phones and TURN THEM OFF prior to entering the classroom.** If you must arrive late or leave class early, please do so as unobtrusively as possible.

HONOR SYSTEM: All aspects of your coursework are covered by the VT Honor System and will be strictly enforced in this course. Please be advised that any suspected violations of the Honor Code will be promptly reported to the Honor System. If you are unfamiliar with the Honor System, refer to pages 10 and 32 in the 2002-04 Undergraduate Course Catalog and Academic Policies or visit their website at www.honorsystem.vt.edu/.

CLASS SCHEDULE Fall Semester - 2002

DATE	LECTURE	LAB
8/27	Introduction, Classification and Nomenclature (p.19)	Tour Exhibit and Propagation Greenhouses
8/29	Containers, Media (p.38,40-41)	Potting and Repotting
9/3	Watering, Relative Humidity (p.36,38,42-43)	
9/5	Light, Temperature (p.20,22,26-27,45)	
9/10	Sexual Propagation (p.56,60-61)	Seeding
9/12	Asexual Propagation I (p.56-61)	Stem Cuttings
9/17	Photosynthesis, Respiration, Transpiration	
9/19	Asexual Propagation II (p.56-61)	Leaf Cuttings, Plantlet Separation
9/24	Exam #1 (ID + Written) - [Bring #2 pencil]	
9/26	Fertilizers (p.38)	Cuttings for Hanging Basket Lab

10/1	Acclimatization (Review Exam#1)	
10/3	Pest Problems (p.50-55)	
10/8	Common Indoor Plants	
10/10	Common Indoor Plants	Totem Pole
10/15	Common Indoor Plants	
10/17	Gesneriads	Gesneriad Asexual Propagation; <i>begin seedling fertilization</i>
10/22	Begonias	Begonia Asexual Propagation
10/24	Bulbs (p.14-15)	Bulb planting
10/29	EXAM #2 (ID + Written) - [Bring #2 pencil]	
10/31	Ferns (p.194-203)	Terrarium
11/5	Bromeliads (Review Exam#2)	Bromeliad mounting
11/7	Orchids (p.212-221)	
11/12	Cacti and Succulents (p. 41,222-229)	Cacti/Succulent Dish Garden
11/14	Lab Only - Pot up rooted cuttings, EXCEPT Begonias and cuttings intended for the Hanging Basket. BRING A BIG BOX!	
11/19	Carnivorous Plants	
11/21	Special Techniques (Braiding, Topiary, Bonsai -- p.48-49)	Braiding Ficus
12/3	Container Gardening	
12/5	<u>FINAL I.D. EXAM</u>, Exhibit Greenhouse #10A will be <u>CLOSED</u> all day	
12/10	Lab Only – Pot-up Begonias, transplant seedlings and remaining cuttings; Construct hanging basket. BRING A BOX.	
12/19	COMMON TIME FINAL: <u>7:45 AM - 9:45 AM</u>, Room to be Announced.	

If you have a conflicting exam with the above Common Time Final exam, or have more than two officially scheduled exams in twenty-four hours, you must SEE YOUR ACADEMIC DEAN and inform your INSTRUCTOR NO LATER THAN **November 22**, as required by university policy. You will be provided with an alternate time exam, should the above condition(s) arise.

COMMON NAME / SCIENTIFIC NAME	Heitz's Page #	Light Requirement
GENERAL HOUSEPLANTS		
Aluminum plant/ <i>Pilea cadierei</i>	179B	Bright
Amaryllis/ <i>Hippeastrum</i> spp.	114A,B	Direct
Aralia Ivy (Fatsy)/ <i>Fatsy lizei</i>	163B	Bright
Arrowhead vine (Nepthytis)/ <i>Syngonium podophyllum</i>	188A	Bright
Artillery plant/ <i>Pilea microphylla</i>	None	Bright
Asparagus fern (Emerald feather)/ <i>Asparagus densiflorus 'Sprengeri'</i>	146	Bright
Australian umbrella tree (Schefflera)/ <i>Schefflera arboricola</i>	184B	Bright
Basket grass/ <i>Oplismenus hirtellus 'Variegatus'</i>	None	Bright
Coleus (Flame or Painted nettle)/ <i>Coleus x hybridus</i>	154A	Bright
Croton/ <i>Codiaeum variegatum pictum</i>	153A	Direct
Devil's Ivy (Pothos)/ <i>Epipremnum aureum</i>	31,162A	Limited
Dieffenbachia (Dumbcane)/ <i>Dieffenbachia</i> spp.	159A	Bright
English Ivy/ <i>Hedera helix</i>	169	Limited
Geranium/ <i>Pelargonium x hortorum</i>	176	Direct
Grape Ivy/ <i>Cissus rhombifolia</i>	152A	Bright
Heart-leaf Philodendron/ <i>Philodendron scandens</i>	179A	Limited
Impatiens (Buzy Lizzy)/ <i>Impatiens wallerana</i>	117	Bright
New Guinea Impatiens/ <i>Impatiens x hawkeri</i>	117	Bright
Ming Aralia/ <i>Polyscias fruticosa</i>	None	Bright
Moon Valley Pilea (Panamiga)/ <i>Pilea involucrata</i>	None	Bright
Peace Lily (Spathiphyllum)/ <i>Spathiphyllum wallisii</i>	133A	Limited
Piggyback plant/ <i>Tolmiea menziesii</i>	189A	Bright
Polka dot plant/ <i>Hypoestes phyllostacya</i>	170A	Direct
Prayer plant (Maranta)/ <i>Maranta leuconeura</i>	171B	Bright
Purple Majesty/ <i>Plectranthus australis 'Purple Majesty'</i>	None	Bright
Purple passion vine (Purple velvet plant)/ <i>Gynura aurantiaca</i>	167B	Direct
Rubber plant (Rubber tree)/ <i>Ficus elastica</i>	164	Bright
Scented geranium/ <i>Pelargonium tomentosum</i>	176	Bright
Silver Queen Aglaonema/ <i>Aglaonema commutatum</i>	143A	Limited
Spider plant/ <i>Chlorophytum comosum</i>	None	Bright
Variegated spider plant/ <i>Chlorophytum comosum 'Vittatum'</i>	151	Bright
Strawberry begonia or geranium/ <i>Saxifraga stolonifera</i>	184A	Direct
Striped Dracaena/ <i>Dracaena deremensis 'Warneckii'</i>	160	Bright
Swedish ivy/ <i>Plectranthus australis</i>	None	Bright
Variegated Swedish ivy or begonia/ <i>Plectranthus coleoides 'Marginatus'</i>	180B	Bright
Swiss cheese plant (Monstera)/ <i>Monstera deliciosa</i>	172A	Bright
Wandering Jew/ <i>Zebrina pendula</i>	191B	Bright
Weeping fig/ <i>Ficus benjamina</i>	164	Bright
PEPEROMIAS (PIPERACEAE FAMILY)		
Baby Rubber Plant/ <i>Peperomia obtusifolia</i>	177B	Bright
Emerald ripple Peperomia/ <i>Peperomia caperata</i>	177	Bright
Philodendron Peperomia/ <i>Peperomia scandens</i>	None	Bright
Rainbow Peperomia/ <i>Peperomia</i> spp.	None	Direct
Watermelon Peperomia/ <i>Peperomia argyreia</i>	None	Bright

BEGONIAS (BEGONIACEAE FAMILY)		
Angel Wing Begonia/ <i>Begonia coccinea</i>	None	Bright
Beefsteak Begonia/ <i>Begonia x erthrophylla</i>	None	Bright
Iron Cross Begonia/ <i>Begonia masoniana</i>	148	Bright
Rex Begonia/ <i>Begonia x rex-cultorum</i>	148	Bright
Wax Begonia/ <i>Begonia x semperflorens-cultorum</i>	None	Direct
GESNERIADS (GESNERIACEAE FAMILY)		
African violet (Saintpaulia)/ <i>Saintpaulia</i> hybrids	128B	Bright
Cape primrose (Streptocarpus)/ <i>Streptocarpus</i> hybrids	134A	Bright
Lipstick plant/ <i>Aeschynanthus radicans</i>	92A	Direct
ORCHIDS (ORCHIDACEAE FAMILY)		
Hybrid cattleya/ <i>Laeliocattleya</i> hybrids	214	Direct
FERNS		
Boston fern/ <i>Nephrolepis exaltata</i>	200A	Limited
Button fern/ <i>Pellaea rotundifolia</i>	200B	Limited
Maidenhair fern/ <i>Adiantum</i> spps.	196A	Limited
Mother fern/ <i>Asplenium bulbiferum</i>	None	Limited
Rabbit's foot fern/ <i>Davallia</i> spps.	198B	Limited
Staghorn fern/ <i>Platynerium bifurcatum</i>	202	Bright
Victoria brake fern/ <i>Pteris ensiformis</i> 'Victoriae'	203	Limited
BROMELIADS (BROMELIACEAE FAMILY)		
Earth star/ <i>Cryptanthus bivittatus</i>	156A	Direct
Flaming sword/ <i>Vriesea splendens</i>	135A	Direct
Spanish moss/ <i>Tillandsia usneoides</i>	None	Direct
Urn plant (Living vase)/ <i>Aechmea fasciata</i>	91B	Direct
Tillandsia/ <i>Tillandsia</i> spps.	134B	Direct
SUCCULENTS		
Bird's-nest Sansevieria/ <i>Sansevieria trifasciata</i> 'Hahnii'	None	Bright
Crown-of-thorns/ <i>Euphorbia milii</i>	108A	Direct
Ghost plant (Mexican gem)/ <i>Echeveria elegans</i>	None	Direct
Hearts-on-a-string (Rosary vine)/ <i>Ceropegia woodii</i>	150B	Direct
Hindu rope vine/ <i>Hoya carnosa</i> 'Krinkle Kurl'	None	Direct
Jade plant/ <i>Crassula arborescens</i>	155B	Direct
Medicine plant (Barbados Aloe)/ <i>Aloe barbadensis</i>	None	Direct
Snake plant/ <i>Sansevieria trifasciata</i>	183B	Bright
Variegated rubber ivy/ <i>Senecio macroglossus</i> 'Variegatum'	None	Direct
Variegated wax plant/ <i>Hoya carnosa</i> 'Variegata'	None	Direct
CACTI (CACTACEAE FAMILY)		
Bishop hat cactus/ <i>Astrophytum</i> spps.	None	Direct
Christmas or Holiday cactus/ <i>Schlumbergera</i> spps.	227B	Bright
Golden barrel cactus/ <i>Echinocactus grusonii</i>	225	Direct
Grafted cactus (Many species)	None	Direct
Gray needle cactus/ <i>Echinocactus</i> spps.	None	Direct
Old man cactus/ <i>Cephalocereus senilis</i>	None	Direct
Rabbit ears cactus/ <i>Opuntia microdasys</i>	None	Direct
Sea urchin cactus/ <i>Astrophytum asterias</i>	None	Direct

You are responsible for learning the common names of plants on this list, even though some of these common names will conflict with common names in your text. **You are not required to learn the scientific names.** Please note that common names for several plants on this list are actually scientific “genus” names. For some plants, two common names are listed - one being in parentheses; you may identify these plants by either name. These are the only names which will be acceptable for ID exams – EXCEPT FULL SCIENTIFIC NAMES (GENUS + SPECIES). The number/letter combination following each plant name refers to the page number and location in your text where a photograph of that plant occurs. “A” is the right picture and “B” is the left picture on the page. In some instances, there are no pictures in your book (listed as “None”); these plants must be viewed exclusively in greenhouse # 10A.

The exhibit house will be CLOSED ALL DAY on the day of the Final I.D. Exam.

PLEASE NOTE: IF YOU HAVE SPECIAL NEEDS OR CIRCUMSTANCES, OR A DOCUMENTED DISABILITY AND NEED AN ACCOMMODATION BECAUSE OF A DISABILITY, PLEASE E-MAIL THE COURSE COORDINATOR (DR. WILLIAMS) TO ARRANGE A TIME TO MEET!

