

# SYLLABUS

## HORT 202

### HORTICULTURE SCIENCE AND PRACTICES LABORATORY

### FALL 2020

David Wm. Reed, Lab Coordinator

Graduate Teaching Assistants

Kaitlin Hopkins

Emily Boak

Tessa Hochhaus

Day	Section	Time	Graduate Teaching Assistant
Monday	501	2:00 - 4:50	Emily Boak
Tuesday	502	12:45 - 3:35	Kaitlin Hopkins
Wednesday	503	1:35-4:25	Tessa Hochhaus
Wednesday	504	5:00-7:50	Emily Boak
Thursday	505	12:45 – 3:35	Tessa Hochhaus

**Location:** Horticulture Forest Science Building (HFSB) 112

**Prerequisite:** HORT 201 or registration therein.

#### Required Text

General Horticulture Laboratory Manual; Third Edition; David Wm. Reed  
ISBN 0-8087-9470-1

#### Learning Outcomes

Horticultural Science and Practices Lab is designed to provide a broad understanding of horticulture through basic and applied science. This is achieved through weekly quizzes over concepts, applied laboratory exercises that emphasize creating and interpreting qualitative and quantitative data and synthesis of underlying concept through observation and discussion of specimens and technique, and individually prepared written in-depth analysis of experimental results.

- To develop a functional knowledge in basic Botany
  - Learn scientific terminology to describe plant anatomy and morphology
  - Understand the taxonomic relationships of plants
- To develop a functional knowledge Plant Physiology, Growth and Development
  - Understand the practical means to manipulate the plant physiology for practical purposes
  - Application of chemical growth regulators to illustrate the junction of plant biochemistry, plant form and shape and economic impacts on horticultural crops.
  - Introduction to plant essential elements and their use as fertilizers.
  - Experimentation with fertilizer application levels as a means of demonstrating physiological response, and as a platform for the discussion of environmental responsibility.
- Soil Science
  - Provide a working knowledge of physical and chemical properties of soils.
  - Introduction to soil conservation and use of sustainable materials for horticultural production.
  - Learn how to compose and use artificial soils.
- Entomology
  - Understanding entomology of horticultural crops.
  - Learn to identify the most common horticultural pests.
- Horticulture Principles
  - Understand the principles of asexual and sexual plant propagation techniques.
  - Learn the methods and techniques of sexual and asexual plant propagation.

- Understanding of the care of landscape plant materials.
- Become proficient in basic horticultural mathematical calculations.

### Instructors: Graduate Teaching Assistants

Emily Boak	Tessa Hochhaus	Kaitlin Hopkins
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### Office Hours

Each instructor will inform you of his/her office hours. These will be conducted via Zoom.

**\*\*Students MUST bring a laptop/tablet to class that can connect to the internet and access eCampus. This is how every weekly quiz will be administered. No laptop/tablet=No ability to take the quiz.\*\***

### Attendance and Make-up Labs

- The lab is 100% experiential learning through experiments and demonstrations
- The lab will be given in person and concurrently via a live Zoom feed
  - Students will be separated into two groups (A and B) and will alternate in person lab attendance per week (i.e. Group A attends week 1, Group B attends week 2, etc.)
  - Students can opt-out of face-to-face attendance of the lab
  - All Zoom sessions will be recorded and will be made available to the class after the lab
- Students not attending the lab in person **MUST** login to Zoom to attend that week's lab and take the weekly quiz
  - If you are using Zoom to attend the class, you **MUST** have your video on and working and you must be visible in order to be counted as present
- Attendance is mandatory. You must attend each lab in its entirety: late arrival or late login to Zoom (after the quiz is over) and/or early departure (before the entire class is dismissed) will result in a zero on that week's weekly quiz.
- Missed labs due to an excused absence (defined in the Student Rules (see <http://student-rules.tamu.edu/rule7.htm>)):
  - Make-up the lab by attending the live Zoom feed of your lab or attend another lab's Zoom meeting section that week. You **must** seek permission from the instructor of the lab.
- Missed labs due to a non-excused absence:
  - Technical difficulties (such as no WiFi, broken/dead computer) that cause you to miss the lab will be counted as an unexcused absence.
  - With permission due to certain extenuating circumstances you may contact your TA and request to miss your lab section and attend another lab section or Zoom meeting for that week. **Permission must be granted by both Tas.**
- Why must all make-ups be the same week? Each lab is a one-time experiment or demonstration. Thus, once that week passes, there is no opportunity for a make-up.
- If the missed lab cannot be made up **during that week**, your quiz grade for that week will be a 0 (but can be used as a drop grade)
- You may only miss a maximum of 3 labs, excused or not (not counting week 1 during the drop/add period). If you miss 4 or more labs (that are not made-up by attending another lab that week), you will receive a grade of "I" (incomplete) and must attend the labs the next semester to make-up the labs.

### Grading Weight

Weekly quiz grades = 50%

Lab report = 50%

**Grading Scale**

A = 90-100, B = 80-89, C = 70-79, D= 60-69, F <=59

However, the grading scale may be adjusted lower to normalize clustering of letter grades between lab sections.

**Weekly Quizzes:**

Weekly quizzes are given every lab and will be taken in eCampus. You must bring your laptop to class in order to take the quiz. You will take 12 weekly quizzes. You are allowed to drop your 2 lowest grades. Your quiz grade will be based on your 10 highest quiz grades. Grades of 0 for missing a week's lab can be used as a drop grade. Each quiz will be worth 10 points; 8 points of each quiz will be based on the previous week's lab material and 2 points of each quiz will be based on general information the current week's lab material. **Therefore, you are required to read each week's lab material BEFORE coming to class.** Each quiz will be 10 minutes long and start 5 minutes after start of class time. If you arrive or login while a quiz is in progress, you may take the quiz, but you must complete it by the standard completion time (i.e., you will not be given an extension). If you arrive or login after the quiz has been completed and collected, you will receive a grade of 0 for that quiz. Any student departing from lab or logging out of Zoom early will have his/her quiz invalidated (a grade of 0) and will be considered absent for that lab. In other words, you must attend the entire lab period for your quiz to count; unless permission is granted by the instructor.

**Lab Report:**

- We will be conducting a series of lab exercises throughout the semester. Most exercises will produce data. Your lab report grade will be based on **data** collected and **questions** answered about each exercise. **Data** will be collected and shared in class. If you are absent, you are responsible for obtaining missing **data** from the instructor.
- The class will collect data, observe the plants and discuss the results and what it means.
- However, the answers to **questions** in your lab report must be your own and cannot be the result of discussion with others after the lab is over. You must work by yourself in interpreting the data and your notes from the class discussion to answering the questions. Any duplicated/plagiarized answers that are found between lab reports will be considered academic misconduct. If it is determined that you worked with others in developing answers, this will be handled as academic misconduct and you will receive a grade of F in the course (see <http://www.tamu.edu/aggiehonor>).
- You may approach your instructor to discuss any aspect of the lab.
- Lab reports will be due as experiments are finished. These will occur throughout the semester; however, many these will occur towards the end of the semester. Your lab instructor will remind you of the exact dates during the semester. **For lab reports turned in after the due date, the grade for that report will be reduced by 10% per business day late.**

## Lab Schedule

	Calendar Week	Laboratory Exercise
Week 1	Aug 24-27	Lab 1, Orientation to the Laboratory
Week 2	Aug 31-Sept 3	Lab 2, Recognition of Plant Structures
Week 3	Sept 7-10	Lab 3, Plant Identification & Taxonomy
Week 4	Sept 14-17	Lab 4 Temperature
Week 5	Sept 21-24	Lab 5: Light
Week 6	Sept 28-Oct 1	Lab 6, Growth Control
Week 7	Oct 5-8	Lab 7, Growing Media & Soils
Week 8	Oct 12-15	Lab 8, Asexual Propagation
Week 9	Oct 19-22	Lab 9, Sexual Propagation
Week 10	Oct 26-29	Lab 10, Nutrition & Fertilizers
Week 11	Nov 2-5	Lab 11, Pest Identification & Control
Week 12	Nov 9-12	Lab 12, Pruning, Bracing, Cabling in the Landscape
Week 13	Nov 16-19	Lab 13, Overview of Fruits and Vegetables
Week 14	Nov 20	All remaining Lab Reports due by 5 PM, Friday November 20 <sup>th</sup>
Week 14	Nov 24	Last Day of Classes

### Hazardous Materials Statement

Do not perform any procedure until all risks are understood and all actions can be performed in a safe, informed manner. When in doubt, ask your instructor for help

- Hazards in the Hort 202 laboratory include:
  - Chemicals
    - fertilizer solutions (Lab 10)
    - plant growth regulators (Lab 6)
    - rooting compounds (Lab 8)
    - cleaning solutions (Lab 9)
    - concentrated sulfuric acid (Lab 9)
    - Chemicals will be handled with gloves, and with protective clothing when appropriate. Students will be strictly monitored. Any improper exposure to these chemicals should be reported to the instructor immediately.
  - Air-borne Irritants (Labs 4-10)
    - perlite
    - vermiculite
    - Particulate masks will be issued to students when appropriate. Students with respiratory problems may be exempt from primary contact with these components with a doctor's excuse, or by permission of the instructor.
  - Mechanical Hazards (Lab 8 & 9)
    - The use of sharp instruments in lab is required, and students should exercise caution. The best way to avoid injury is to proceed slowly and follow instructions.

### Copyrights

Please note that all handouts and supplements used in this course are copyrighted. This includes all materials generated for this class, including but not limited to syllabi, exams, in-class materials, review sheets, and lecture outlines. Materials may be downloaded or photocopied for personal use only and may not be given or sold to other individuals.

### Americans with Disabilities Act (ADA) Policy Statement

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students

with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact Disability Services, in Cain Hall, Room B118, or call 845-1637. For additional information, visit <http://disability.tamu.edu>.

**Academic Integrity Statement and Policy**

No form of academic misconduct will be tolerated in HORT 202 lab. Be aware that copying answers during lab quizzes, any copied or plagiarized answers, or any answers developed in discussion with others in lab reports are forms of academic misconduct. Please refer to Student Rules (<http://student-rules.tamu.edu/>) and the Honor Council Rules and Procedures (<http://aggiehonor.tamu.edu/Students/>). It is the student's duty to read, understand and comply with these policies.

*"An Aggie does not lie, cheat or steal, or tolerate those who do."*

## COVID-19 Temporary Amendment to Minimum Syllabus Requirements

*The Faculty Senate temporarily added the following statements to the minimum syllabus requirements in Fall 2020 as part of the university's COVID-19 response.*

### *Campus Safety Measures*

To promote public safety and protect students, faculty, and staff during the coronavirus pandemic, Texas A&M University has adopted policies and practices for the Fall 2020 academic term to limit virus transmission. Students must observe the following practices while participating in face-to-face courses and course-related activities (office hours, help sessions, transitioning to and between classes, study spaces, academic services, etc.):

- Self-monitoring—Students should follow CDC recommendations for self-monitoring. **Students who have a fever or exhibit symptoms of COVID-19 should participate in class remotely and should not participate in face-to-face instruction.**
- Face Coverings—[Face coverings](#) (cloth face covering, surgical mask, etc.) must be properly worn in all non-private spaces including classrooms, teaching laboratories, common spaces such as lobbies and hallways, public study spaces, libraries, academic resource and support offices, and outdoor spaces where 6 feet of physical distancing is difficult to reliably maintain. Description of face coverings and additional guidance are provided in the [Face Covering policy](#) and [Frequently Asked Questions \(FAQ\)](#) available on the [Provost website](#).
- Physical Distancing—Physical distancing must be maintained between students, instructors, and others in course and course-related activities.
- Classroom Ingress/Egress—Students must follow marked pathways for entering and exiting classrooms and other teaching spaces. Leave classrooms promptly after course activities have concluded. Do not congregate in hallways and maintain 6-foot physical distancing when waiting to enter classrooms and other instructional spaces.
- To attend a face-to-face class, students must wear a face covering (or a face shield if they have an exemption letter). If a student refuses to wear a face covering, the instructor should ask the student to leave and join the class remotely. If the student does not leave the class, the faculty member should report that student to the [Student Conduct office](#) for sanctions. Additionally, the faculty member may choose to teach that day's class remotely for all students.

### *Personal Illness and Quarantine*

Students required to quarantine must participate in courses and course-related activities remotely and **must not attend face-to-face course activities**. Students should notify their instructors of the quarantine requirement. Students under quarantine are expected to participate in courses and complete graded work unless they have symptoms that are too severe to participate in course activities.

Students experiencing personal injury or illness that is too severe for the student to attend class qualify for an excused absence (See [Student Rule 7, Section 7.2.2.](#)) To receive an excused absence, student must comply with the documentation and notification guidelines outlined in Student Rule 7. While Student Rule 7, Section 7.3.2.1, indicates a medical confirmation note from the student's medical provider is preferred, **for Fall 2020 only, students may use the Explanatory Statement for Absence**

**from Class form in lieu of a medical confirmation. Students must submit the Explanatory Statement for Absence from Class within three business days after the last date of absence.**

*Operational Details for Fall 2020 Courses*

For additional information, please review the [FAQ](#) on Fall 2020 courses at Texas A&M University.