Syllabus - HORT 4324
Greenhouse Management

Instructor: Dr. Josh Kardos

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Schedule and Deadlines (I highly recommend that you print this document): GHM_schedule_fall 2020.pdf

No textbook required, but the following texts are recommended to supplement course materials:

- Greenhouse Operation and Management, 7th edition, Paul V. Nelson, Prentice Hall
- Floriculture Principles and Species, John Dole and Harold Wilkerson, Prentice Hall
- Greenhouse Management: A Guide to Operations and Technology, Ted Goldammer, Apex Publishers

Course content developed by Dr. Josh Kardos, Instructor, School of Plant and Environmental Sciences, Virginia Tech, Dr. Holly Scoggins, Associate Professor Emerita, School of Plant and Environmental Sciences, Virginia Tech, and Dr. Joyce Latimer, Professor and Extension Greenhouse Specialist, School of Plant and Environmental Sciences, Virginia Tech.

Course Description: The greenhouse industry is one of the most highly technical and high value sectors of agricultural production. This course will prepare students who intend to manage (or advise those managing) commercial, institutional, educational, or research greenhouses. This is a marvelous field that is rapidly gaining interest. I hope you enjoy the course!

Prerequisites: Fundamental coursework in plant propagation, environmental factors, plant physiology OR similar experience.

Course Objectives: Upon successful completion of the course, you should be able to:

1. Locate and access literature and resources pertinent to greenhouse construction and management
2. Discuss the characteristics of various types of greenhouses
3. Explain all elements of environmental controls utilized in greenhouses
4. Outline costs associated with greenhouse construction and production
5. Identify greenhouse pests and pathogens and know where to access information on their control

Schedule: An availability/deadline schedule is linked at the top of this page and also under "Module 0" in Canvas. Print this off and post it next to your computer. Please use this to stay on track. Quizzes and exams will become UNAVAILABLE at the stated deadline/expiration date.

Lectures and Quizzes: Located under Modules in the menu. Modules have two to seven lectures depending on the topic and amount of information covered. Each lecture has an associated quiz posted with it. When you complete the lesson, take the quiz before going on to the next lesson. Note once a quiz is opened, you only have one shot at it. All quizzes are open book/notes.

Exams: Like the quizzes, exams are online. Each exam will be available for one week, so you do not have to take the exams on one specific date. It is very important that you complete all of the lectures covered on a given exam before taking the exam. Each exam will test the content of the lessons and readings specified for that exam. The exams are not comprehensive, except in the sense that you need to get the "big picture". Exams must be completed within the week they are available, extensions will not be granted.

Project: Information pertaining to the project will be posted during the 2nd or 3rd week of class.

Grading:

Module Quizzes = 50%
Exams (1 & 2) = 40%
Project = 10%
Total = 100%

Grade Scale for course:

Letter Grade	From	To
A	93	100
A-	90	92.99
B+	87	89.99
B	83	86.99
B-	80	82.99
C+	77	79.99
C	73	76.99
C-	70	72.99
D+	67	69.99
D	63	66.99
D-	60	62.99
F	0	59.99

You can approach this course any way you want to, but I highly recommend the following:

1. Make a 3-ring notebook for this course with a set of tabs.
2. Print the PDF for each lesson and take notes on the slide pages. Keep modules separated by tabs.
3. Follow the schedule and don't miss the deadlines.

The Virginia Tech Honor System: The Undergraduate Honor Code pledge that each member of the university community agrees to abide by states: "As a Hokie, I will conduct myself with honor and integrity at all times. I will not lie, cheat, or steal, nor will I accept the actions of those who do." Students enrolled in this course are responsible for abiding by the Honor Code. A student who has doubts about how the Honor Code applies to any assignment is responsible for obtaining specific guidance from the course instructor before submitting the assignment for evaluation. Ignorance of the rules does not exclude any member of the University community from the requirements and expectations of the Honor Code.

For additional information about the Honor Code, please visit: https://www.honorsystem.vt.edu/

The flexibility offered in this course may make it tempting to work together on quizzes, exams, or the project, but doing so is a violation of the honor system as stated above. This also means not consulting with past students for answers, looking up stuff on the internet during an exam, etc. Any of these situations is considered unauthorized assistance. You do have the freedom to access the resources provided by this course (lectures, notes, and other resources as listed in each module). You are expected to complete your own work for this course. If any part of this is not clear, do not hesitate to ask for clarification.

Special Learning Needs: Students with special needs including testing accommodations should discuss this with me at the beginning of the semester. Information on available assistance for special learning needs for all Virginia Tech students can be located at the office of Services for Students with Disabilities (SSD), 250 S. Main Street, Suite 300; Mail Code (0185); 231-0858 (V); 231-0853 (TTY); www.ssd.vt.edu

Virginia Tech Principles of Community: The instructor of this course abides by the Virginia Tech Principles of Community and expects all participants to do likewise. For more information, visit http://inclusive.vt.edu/vtpoc0.html. Need help dealing with school and/or life? You have a terrific resource in the good folks at Cook Counseling Center at 540-231-6557 (can speak to someone 24/7). Virginia Tech provides a variety of free services to support student success. All of these services are provided at no additional charge to you. Check out all the services provided by the Dean of Students Office: http://www.dos.vt.edu/index.html

Additional Topics of Importance and Additional Resources:

If there are aspects of this course that prevent you from learning or exclude you, please let me know as soon as possible. Together we'll develop strategies to meet both your needs and the requirements of the course.

If you are a veteran or active duty military personnel with special circumstances (e.g., upcoming deployments, drill requirements, disabilities) please let me know as soon as possible and know that I want to work with you to accommodate your circumstances.

If you are facing challenges securing food, housing, or child care and believe this may affect your performance in the course, you are urged to contact the Dean of Students for support. Likewise, you may notify me if you are comfortable doing so. I can help to connect you to resources in the local community.

I respect and support your decision to honor your cultural and religious holidays. If you have religious or cultural observances that coincide with this class please notify me through email by September 1, 2020. However, if I do not hear from you by September 1, 2020, I will assume that you plan to attend meet all scheduled deadlines for this course.

I uphold the university's Community Wellness Commitment. https://ready.vt.edu/well.html By participating in this class, all students agree to abide by the Virginia Tech

Wellness principles. If you are exhibiting even very slight signs of illness, you must not attend class in person. Notify me by email and follow the instructions posted at https://vt.edu/ready/health.html#tips