Greenhouse Management
Plant Science 430
Spring 2020

I. COURSE DESCRIPTION:

PSS 430 is a 3 credit hour course:

- Lecture periods meet from 2:10 to 3:25 pm, Tuesday & Thursday, in Room 160 Plant Biotechnology Building.
- Lab periods meet from 3:40 to 4:55 pm on Thursday in Room 160 Plant Biotechnology. Lab location may change for different lab needs. Locations will be announced in class prior to the lab date. Also check email and announcements on Canvas for locations changes.

II. COURSE OBJECTIVES:

- To assist the student in developing an understanding of the basic concepts of greenhouse management.
- To develop an understanding of the fundamental plant physiology and environmental science concepts which influence greenhouse production.
- To familiarize the student with greenhouse crop production systems currently utilized for horticultural crops.
- To acquaint the student with sources of information for future reference (i.e. refereed journals, books, web sites, bulletins, government agencies, extension specialist, etc.).

III. INSTRUCTOR and TAs:

Instructor:

Dr. Carl Sams
Office: 257 Plant Biotechnology Building
Phone: 974-8818
E-mail: carlsams@utk.edu
Office Hours: One hour following each class meeting and by appt.

Teaching Assistants:

Hunter Hammock — Email: hhammoc1@vols.utk.edu
Jonathan Chase — Email: jchase4@vols.utk.edu

IV. GRADES:

A. Points:

Source	Points
Exam 1	200 (Drop lowest grade of Exam 1-3)
Exam 2	200
Exam 3	200
Final Exam	300 (The final will cover all course material).
Term Report	200 (Report on Greenhouse Production of a Crop)
Lab/field trip/extra reports	100 (There will be 5 1-3 page reports: 20 pts each)
Potential Bonus Points	50 (Questions on reading material, previous lectures, questions from past exams and field trips, and assigned reading **may** be given).
Total	1000

B. Grading Scale:

Grade	Points
A	950-1000
A-	900-950
B+	867-899
B	834-866
B-	800-833
C+	767-799
C	734-766
C-	700-733
D+	667-699
D	634-666
D-	600-633
F	<600

C. **Reports:** Each student will prepare a written report on a greenhouse production system project for a crop/crops. Additional details will be posted regarding this project at regular intervals during the semester. There will be specific target dates set for the accomplishment of various task to be completed as part of the project. Performance metrics will be established for the reports. If reports are late, then the grade will be lowered by a letter grade per day late.

REPORTS ARE LATE AFTER START OF CLASS ON April 14.

Exams:
Graduate students will take a different exam than that given to undergraduates. Read ALL required and suggested assignments. Graduate students will also do a

special problem and/or an extra report/presentation not required of undergraduate students. These will be worth 100 points each.

Graduate student grades will be on an equivalent point scale as above out of 1200 points instead of 1000.

Exams will be a mix of discussion, short answer, problems, and multiple choice. All exams are comprehensive in the sense that I expect you to be able to use material from early in the semester to understand and explain later material. If you must miss an exam for any reason, discuss the absence with me **BEFORE** the exam. I will Drop one exam. I will schedule **ONE make-up exam session** after the third hour exam. You must have a Dr's excuse to take this exam. If you miss 2 of the first three exams, and have a Dr's excuse you can take this exam.

NOTE:

The MAKEUP EXAM WILL BE HELD Thursday APRIL 23 at 5:00 PM.

The make-up will be MORE DIFFICULT than either scheduled exam, and will cover material from all exams. The final will be comprehensive, covering material from the entire semester.

V. Disabilities:

If you need course adaptations or accommodations because of a documented disability or if you have emergency information to share, please contact the Office of Disability Services at 191 Hoskins Library at 423.974.6087. This will ensure that you are properly registered for services.

VI. Academic Integrity:

Scholastic dishonesty will not be tolerated. Forms of scholastic dishonesty include, but are not limited to: plagiarism (be careful on your papers), utilization of unauthorized materials during academic evaluations, and giving or receiving unauthorized assistance during evaluations. The first offense will result in a grade of 0 for that particular assignment. A second offense will result in disciplinary action at the College/University level.

VII. TEXTBOOKS:

Greenhouse Operation and Management by Paul V. Nelson. **Lectures topics follow the discussion in**

this text. The text is not required. There are five copies on reserve in the UTIA library for use by students if you wish to review the material before class. Of course, you may purchase the text as a reference if desired. Lectures will contain additional material not in the text and supplemental reading assignments will be made. (Suggested supplemental reading assignments will be supplied as PDF files or placed on reserve in the UTIA Library as needed).

VIII. Class Rules:

Computers, cell phones, etc. are not allowed in lecture for any none class directed use. Outlines of notes will be posted on Canvas and students are expected to use these outlines and take notes in class.

Students are expected to take handwritten notes in class. PowerPoints will be posted in advance to Canvas for your review. Questions and discussion are encouraged. We will schedule 3-5 minutes every 20-30 minutes for open discussions of class material. Questions are also welcome at any other time during class and lab.

Be polite and avoid non-class related conversations during class. Students will need access to a word processor, email (UT email for communications for this class), and the internet. Microsoft Word is the preferred word processor. Excel will be needed to view and create some figures used in class. Acrobat will be required to view some documents