

Greenhouse Management Laboratory - Syllabus and Schedule

An ACCEPtS Class Available to Students at the University of Arkansas, Louisiana State University, Mississippi State University and Oklahoma State University.

Instructor:

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Office Hours:

Dr. Evans' office hours are Monday and Tuesday 8:30AM until 10:00AM. During office hours, Dr. Evans will be available to discuss issues or questions that you may have by telephone, e-mail or Skype (mrevans5). Students may feel free to Contact Dr. Evans at this time. However, if you are unable to reach him, please try again later as he may be already working with another student. You may also schedule an appointment at anytime by leaving a phone message or an e-mail. Please leave a date/time that you wish to meet and a return telephone number, and the appointment will be confirmed. For those student located in Fayetteville, you are welcome to visit Dr. Evans in his office if you have issues or questions.

Laboratory Description:

This laboratory is designed to provide students with hands-on learning experiences related to principles discussed in the Greenhouse Management lecture. To accomplish this, students will work in *Laboratory Teams* to complete 7 experiments (out of a possible 9) during the semester. You will be assigned to a *Laboratory Team* (not necessarily the same as your lecture *Learning Team*) at the beginning of the semester (see the Blackboard sight to find your team). Experiment descriptions and protocols are on the Blackboard site, and the *Laboratory Teams* may select which 7 experiments to conduct. Supplies and equipment needed to conduct the experiments will be maintained in the laboratory room and greenhouse area throughout the semester (see your local Professor or Lab Manager). Students in *Laboratory Teams* may work to complete the experiments during scheduled laboratory periods or during other times if approved by your local laboratory manager. Due dates are listed below for the completion experiments and submission of lab reports. More information on the lab reports is provided below. Note, however, that experiments may be conducted in any order

(*Laboratory Teams* decide which experiments are first, second, third, etc.). It is only important that lab reports be submitted according to the schedule shown below. Note that instructions on how to conduct a project are presented (in the Greenhouse Laboratory Blackboard® site under “Projects”) as both a written protocol and as a video at the end of the written protocol.

Credit and Grading:

Students will receive 1 semester credit for this course (lab).

Each lab experiment/report is worth up to 20 points for a total of 140 points. Project reports will be graded according to the rubric at the end of this syllabus. Although *Laboratory Team* members will work together to conduct laboratory projects, each student member will submit an original (your own writing) and independent one page lab report and be graded separately. See the grading rubric and the examples of lab reports below.

There will be 6 *Virtual Field Trips* (VFT) quizzes with each being worth 10 points for a total of 60 points. Quizzes for the VFT will be in a short answer or short discussion format, relate to content in the VFT and will be conducted on Blackboard®. Students will have approximately 2 days to independently complete (without assistance from other students) each quiz. See the schedule for due dates.

Grades will be assigned based upon the percentage of potential points (total of 200 possible) earned during the semester. Percentages will correspond to letter grades as follow:

- A - 90% to 100%
- B - 80% to 89%
- C - 70% to 79%
- D - 60% to 69%
- F - 0% to 59%

Laboratory Schedule, Weekly Activates and Due Dates:

Example Greenhouse Management Laboratory Schedule	
Week 3	Complete and submit Bachman's VFT Quiz
Week 6	First lab report due
Week 6	Complete and submit Agristarts VFT Quiz
Week 7	Complete and submit Metrolina VFT Quiz
Week 7	Second and third lab reports due
Week 9	Complete and submit C. Raker and Son's VFT Quiz Fourth and fifth lab reports due
Week 9	Complete and submit Glass Corners VFT Quiz
Week 11	Sixth and seventh lab reports due
Week 12	Complete and submit Eurofresh VFT Quiz
All quizzes and reports are due by 5:00PM on the date indicated. Exact dues dates assigned at beginning of semester each year.	

Grading Rubric for Project Reports:

Reports are limited to one single spaced page (total including graphs, tables, etc.) of a 12 point font. Include the title of the project, your name and institution, but do not include an introduction or materials and methods. Only data, results and discussion are required. Data may be presented in tabular or graphical format. Data presented should be the means of the different treatments and include standard deviations for each mean (do not show individual data values). Photographs are not required but may be included as a way of demonstrating the results. See the example lab reports after the grading rubric.

Points are awarded as follows:

1. Project was conducted, completed and report submitted [1 points].
2. Data was collected analyzed and presented in clear and organized tabular or graphical format with means and standard deviations. [5 points].
3. Results were presented in a clear and concise fashion (What was observed or how did the treatments differ from one another? What were the basic findings?) [5 points]
4. Results were explained clearly (Why were the results expected or if not what was expected and why not? If results differed from those expected, what might have been the cause for the deviation?) [5 points]
5. General quality, appearance, spelling and grammar. [4 points]