Greenhouse Management

Course Information Sheet
Taught by University of Arkansas

Course Overview: This course is designed to provide students with an in-depth understanding of the principles of greenhouse and controlled environments management. Students will learn about types of greenhouse structures, greenhouse structural materials and components as well as about greenhouse heating and cooling. Additionally, students will gain an in-depth understanding of irrigation systems, water quality, soils, fertilization and plant growth regulators. Prerequisites: Principles of Horticulture (Hort 2003) and General Chemistry (Chem 1074) or equivalents.

Instructor	Dr. Michael R. Evans (479) 575-3179 (office phone) mrevans@uark.edu
Course Dates	Fall Semesters
Required Text(s)	There is no required textbook.
Campus Coordinator	Nancy Arnold nharnold@uark.edu
Course Management System	Blackboard and "Greenhouse Management Online" website

Course at Enrolling Institutions:	
University of Arkansas	Greenhouse Managment
Louisiana State University	Greenhouse Managment
Mississippi State University	Controlled Environment Agric.
Oklahoma State University	Greenhouse Managment

Course Goals: The goal of this course is to provide students with an understanding of various aspects of greenhouse management and how greenhouses and controlled environments are used to manipulate environmental conditions to reduce cropping time and increase production and quality of greenhouse-grown crops.
Course Objectives: Upon completion of this course, students should: 1. Understand basic greenhouse designs and construction materials. 2. Understand plant mineral nutrition as it applies to greenhouse crops production. 3. Understand how to manage the soil-water-mineral nutrition triad as it applies to greenhouse crops production. 4. Understand plant growth regulators and how they can be used effectively in greenhouses. 5. Understand how to manipulate temperature and photoperiod to control greenhouse crop growth and development.

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