

Course Description Form

Department or Division Crop, Soil, and Environmental Sciences

Instructor (or director) Derrick M. Oosterhuis

Course Title Cotton Production Course Number CSES 3312

Date of Description August 1998 Type of Course lecture

I. Area of coverage and purpose of course: Emphasis will be placed on understanding the cotton plant, how it grows, and the principles underlying cotton production systems. The growth and development of the cotton plant from planting to harvest will be described and the underlying soil, water, genetic, fertilizer, climate and pest protection requirements studied. The integration of these principles into crop monitoring systems will help to better understand the growth of the cotton crop and factors affecting yield. The course will emphasize the uniqueness of cotton and the specific requirements for high yields and acceptable fiber quality. Typical cotton production systems in the Mid-south will be used as examples, but mention will also be made of new innovations including no-till cotton, transgenic cultivars, and precision agriculture.

II. Class Procedures: Mainly by lectures with the aid of overhead transparencies and class discussion. There will also be some practical demonstrations in the field, glasshouse and laboratory. Selected handouts and supplementary reading will be given to clarify or summarize class discussions. Additional reading will be required from select texts and photocopies reserved in the library.

III. Assignments: There is no laboratory section accompanying this course. However, there will be some practical demonstration of techniques, equipment, plants and fibers in the field, glasshouse or laboratory to help provide the necessary understanding of cotton growth and production.

IV. Texts: There is no required textbook for this course. A compendium of selected chapters and papers from recently published books, popular articles and journals will be used to supplement the lectures. Recommended readings will also be indicated from books held in reserve in the library.

V. Evaluation: There will be weekly 10-minute quizzes during the semester and a final comprehensive one-hour examination. Each quiz will be worth 10 points and the 10 highest quizzes will be accumulated for a total of 100. The final comprehensive examination will be worth 100 points. A sample examination will be made available with the reserved books in the library.

VI. Any other brief comment which you think could help a student to know what will be expected of him/her in this course and what it is designed to do for him/her. Guest lecturers will be used where appropriate to broaden the scope of the course by introducing the students to special topics and authorities in cotton, e.g. in cotton breeding, cotton fiber analysis, and pest management.

VII. Catalog Descriptions: CSES 3312 Cotton Production (FA) (even numbered years). Principles and techniques associated with production of cotton. Recitation 2 hours per week. Prerequisites CSES 1203 (*Introduction to Plant Science*).