

AGR1313: Plant Science



INSTRUCTOR CONTACT INFORMATION:

Dr. Cedric Sims

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Adjunct Instructor (contact via email or phone)

COURSE TITLE: AGR1313: Plant Science

COURSE DESCRIPTION: Scientific principles as the basis for practice in producing, handling, processing, marketing, and utilizing agronomic and horticultural crops.

PREREQUISITES: None

TEXTBOOK or eRESOURCE:

Required Textbook: Plant Science 5th edition – Growth, Development and Utilization of Cultivated Plants.
McMahon, Kofranek, and Rubatsky

eRESOURCE STATEMENT: If your course requires electronic resources (formerly referred to as an eBook), students will be automatically billed a fee when enrolled in the course. The fee enables students to access books/electronic resources within the first seven days of class below competitive market rates that are not available elsewhere. This fee is non-refundable. Students are responsible for the charge if they choose to drop the course, get "cut-out" based on absences, or withdrawal any time after the add/drop period.

GOALS & OBJECTIVES:

The goal of AGR1313, is to introduce students to basic concepts and practical application of a variety of plant science. The course serves as an opportunity for students:

1. To discuss tensions involved in the statement "Agriculture must be sustainable economically, environmentally, and in providing food security."
2. To appreciate the world's ability to produce food and fiber, to think about how this can continue and what it means to you and others.
3. To understand how growers manipulate environmental factors to improve the production of crops.
4. Explore the relationship between crop production, environmental protection and food security
5. Relate the basic properties and processes of plant biology and soils to food and fiber production
6. To express your thoughts about plants, soils and people and to analyze and interpret graphs and figures

INSTRUCTIONAL TECHNIQUES:

1. Lecture/Notes
2. Assessment
3. Online discussions
4. Power Point
5. Video
6. Other techniques as necessary

OUTCOME COMPETENCIES:

- A. Explain the role of higher plants in the world and the development of Agriculture
- B. Identify the structure of higher plants
- C. Describe the vegetative and reproductive growth and development of plants including photosynthesis and respiration
- D. Recognize the biological competitors and pests of crop plants
- E. Name and classify plants

METHODS OF EVALUATION:

1. Discussion forums
2. Quizzes
3. Tests/Exams
4. Projects/Papers

ATTENDANCE:

The following reflect the absentee policy for MSVCC online classes:

	<u>Maximum Absences</u>	<u>Instructor Withdrawal Processed</u>
Fall/Spring	2 weeks nonparticipation	After 3rd week nonparticipation
Summer/Short	1 week nonparticipation	After 2nd week nonparticipation

GRADING: **Grades will be updated and posted on a regular basis on Canvas**

A (100-90) **B** (89-80) **C** (79-70) **D** (69-60) **F** (59 or below)

ACADEMIC HONESTY: A hallmark of any profession is integrity and honesty. Academic honesty is expected of all students; therefore, each student is expected to complete his/her own work. Academic misconduct includes, but is not limited to, deceptive acts such as the following:

- Plagiarizing from any source
- Cheating in any manner on tests, papers, reports, etc.
- Turning in work as their own when, in fact, it was not their work
- Improperly using technology
- Stealing, buying, or selling course materials
- Either impersonating another student during a test or having another
- Person assume ones identify during a test
- Deliberately conveying false or misleading information

When academic misconduct has occurred, the instructor has the responsibility of assigning an appropriate penalty in accordance with the instructor's institutional policy. This may include failure of the assignment, failure of the course, or dismissal from the institution.

TESTING:

Of the required tests, midterm exam will be proctored. The student is responsible for contacting clicking on Smarter Proctoring in the Canvas menu to set up a date and time for the proctored test. For any questions, contact the eLearning Department. **Students who do not take their proctored exam(s) will not receive a passing grade. They will receive an F for the course.**

ADA STATEMENT: If you are a student that has a disability, which qualifies under the Americans with Disabilities Act (ADA) and requires accommodations, you should contact the Office of Disability Support Services at your campus location:

Natchez Campus – Tiffany Woods

Phone: (601) 446-1205

Email: tiffany.woods@colin.edu

Simpson County Center – Beverly Barnes

Phone: (601) 849-0121

Email: beverly.barnes@colin.edu

Wesson Campus – Jordan Burt Stephens

Phone: 601-643-8401

Email: jordan.stephens@colin.edu

CALENDAR OF EVENTS:

Date		Chapter 5 th edition
1/7	Introduction	
1/7	Science, Plants and Human Population	1,2
1/14	Human Impact on Ecosystems	3
1/14	Climate – Solar Radiation	4
	No class MLK Day	
1/22	Climate – Temperature and Air Movement	4
1/28	Soils and Soil Management (Exam 1 in Lab)	5
1/28	Integrated Crop Management	15
2/4	Structure of Higher Plants	6
2/4	Stages of Growth and Development	7
2/11	Stages of Growth and Development	7
2/11	Plant Chemistry and Metabolism	8
2/18	Plant Chemistry and Metabolism	8

2/18	Photosynthesis and Respiration	11
2/25	Photosynthesis and Respiration (Exam 2 in class) (no lab this week)	11
2/25	Soil, Plant and Water Relations	12
3/4	Soil, Plant and Water Relations	12
3/4	Soil, Water, Fertility Management	14
3/8	Soil, Water, Fertility Management	14
3/8	Genetics and Propagation	9
	Spring Break	
3/18	Genetics and Propagation	9
3/18	Crop Diversity and Classification	10
3/25	Precision Ag	
3/25	Sustainable Ag	
4/1	Floriculture Crops (exam 3 in lab)	23
4/1	Nursery Crops	21
4/8	Forage Crops	17
	No Class	
4/8	Turfgrass	24
4/15	Field Crops	16
4/22	Final Exam 12-3 pm	

DISCLAIMER: The content contained in this syllabus is subject to change at the discretion of the instructor.