



## PLS 1307, Intro Plant Science

COURSE SYLLABUS: SUMMER I 2023

### INSTRUCTOR INFORMATION

**Instructor:** Desire Djidonou, (Dr. D), Assistant Professor – Urban/Sustainable Horticulture

**Office Location:** AgIT 248

**Office Hours:** F 12 – 1 pm; (AgIT); or by appointment

**Office Phone:** (903) 886-5679

**Office Fax:** (903) 886-5990

**University Email Address:** [desire.djidonou@tamuc.edu](mailto:desire.djidonou@tamuc.edu)

**Preferred Form of Communication:** email

### COURSE INFORMATION

**Time & location:** Asynchronous Web-based.

#### Materials – Textbooks, Readings, Supplementary Readings

##### Required Text

***Plant Science: Growth, Development, and Utilization of Cultivated Plants,***  
*6<sup>th</sup> Edition.* 2019. Margaret J. McMahon. Pearson.

An eText can be purchased from Pearson+ (<https://www.pearson.com/en-us/pearsonplus.html>) at \$9.99 a month.

### Course Description

An overview of the biological aspects of cultivated plants, including plant structure, growth and development, genetics, and physiological processes. The influence of environmental factors on plant growth and development; general considerations related to the production practices and economic importance of some major field and forage crops will be covered in details.

**Prerequisites:** None.

*The syllabus/schedule are subject to change.*

## Student Learning Outcomes

Upon successful completion of the course, the student will be able to:

1. Describe the primary structure of plant cell, tissue, and organs, their functions and importance to plant growth and development.
2. Explain the processes of photosynthesis and respiration (the carbon cycle).
3. Describe the mechanisms of movement of water and mineral nutrients into and throughout the plant.
4. Describe the principles of efficient soil, water, and fertility management for sustainable production of major field and forage crops.

## COURSE REQUIREMENTS

### Minimal Technical Skills Needed

Basic knowledge of Microsoft office (Word, Excel, and PowerPoint) and familiarity with D2L. Students will need reliable internet access to retrieve course materials and complete online quizzes and exams if needed.

### Instructional Methods

Lectures: The lecture materials (PowerPoint slides, video recording, and additional reading materials) will be made available on the course D2L page for students to download.

### Student Responsibilities

#### Expectation of Students

1. Students are expected to review course materials within two days after being posted on D2L to follow the course progress;
2. Completion of homework assignments and exams by the due dates;
3. Late submission of assignments or make-up of exams and other work in this course will only be allowed for legitimate, pre-excused absences.

## ASSESSMENTS and GRADING

### Course evaluation

Exam 1 .....	100 points
Exam 2 .....	100 points
Exam 3 .....	100 points
Final.....	100 points
Homework Assignments.....	50 points

Exams: (Multiple Choice, T/F, Matching, Short Answer, Critical essay): The exams will include material from lecture and additional reading assignments. Exam dates are given below in the tentative semester schedule.

Homework assignments: 1-2 questions will be given each week throughout the semester to be answered using reading materials and/or other sources. Homework assignments will be posted on D2L and due by the following lecture.

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## Grade Assignment

Letter grades for the course will be assigned according to the chart below:

A = 90%-100%

B = 80%-89%

C = 70%-79%

D = 60%-69%

F = 59% or Below

## TECHNOLOGY REQUIREMENTS

### LMS

All course sections offered by Texas A&M University-Commerce have a corresponding course shell in the myLeo Online Learning Management System (LMS). Below are technical requirements

LMS Requirements:

<https://community.brightspace.com/s/article/Brightspace-Platform-Requirements>

LMS Browser Support:

[https://documentation.brightspace.com/EN/brightspace/requirements/all/browser\\_support.htm](https://documentation.brightspace.com/EN/brightspace/requirements/all/browser_support.htm)

YouSeeU Virtual Classroom Requirements:

<https://support.youseeu.com/hc/en-us/articles/115007031107-Basic-System-Requirements>

## ACCESS AND NAVIGATION

You will need your campus-wide ID (CWID) and password to log into the course. If you do not know your CWID or have forgotten your password, contact the Center for IT Excellence (CITE) at 903.468.6000 or [helpdesk@tamuc.edu](mailto:helpdesk@tamuc.edu).

**Note:** Personal computer and internet connection problems do not excuse the requirement to complete all course work in a timely and satisfactory manner. Each student needs to have a backup method to deal with these inevitable problems. These methods might include the availability of a backup PC at home or work, the temporary use of a computer at a friend's home, the local library, office service companies, Starbucks, a TAMUC campus open computer lab, etc.

## COMMUNICATION AND SUPPORT

If you have any questions or are having difficulties with the course material, please contact your Instructor.

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## **Technical Support**

If you are having technical difficulty with any part of Brightspace, please contact Brightspace Technical Support at 1-877-325-7778. Other support options can be found here:

<https://community.brightspace.com/support/s/contactsupport>

## **COURSE AND UNIVERSITY PROCEDURES/POLICIES**

### **Course Specific Procedures/Policies**

Attendance to lectures and lab activities are required unless ill.

### **Syllabus Change Policy**

The syllabus is a guide. Circumstances and events, such as student progress, may make it necessary for the instructor to modify the syllabus during the semester. Any changes made to the syllabus will be announced in advance.

## **University Specific Procedures**

### **Student Conduct**

All students enrolled at the University shall follow the tenets of common decency and acceptable behavior conducive to a positive learning environment. The Code of Student Conduct is described in detail in the [Student Guidebook](#).

<http://www.tamuc.edu/Admissions/oneStopShop/undergraduateAdmissions/studentGuidebook.aspx>

Students should also consult the Rules of Netiquette for more information regarding how to interact with students in an online forum: <https://www.britannica.com/topic/netiquette>

### **TAMUC Attendance**

For more information about the attendance policy please visit the [Attendance](#) webpage and [Procedure 13.99.99.R0.01](#).

<http://www.tamuc.edu/admissions/registrar/generalInformation/attendance.aspx>

<http://www.tamuc.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/13students/academic/13.99.99.R0.01.pdf>

### **Academic Integrity**

Students at Texas A&M University-Commerce are expected to maintain high standards of integrity and honesty in all of their scholastic work. For more details and the definition of academic dishonesty see the following procedures:

[Undergraduate Academic Dishonesty 13.99.99.R0.03](#)

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<http://www.tamuc.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/13students/undergraduates/13.99.99.R0.03UndergraduateAcademicDishonesty.pdf>

[Graduate Student Academic Dishonesty 13.99.99.R0.10](#)

<http://www.tamuc.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/13students/graduate/13.99.99.R0.10GraduateStudentAcademicDishonesty.pdf>

## **AI use in course**

Texas A&M University-Commerce acknowledges that there are legitimate uses of Artificial Intelligence, ChatBots, or other software that has the capacity to generate text, or suggest replacements for text beyond individual words, as determined by the instructor of the course.

Any use of such software must be documented. Any undocumented use of such software constitutes an instance of academic dishonesty (plagiarism).

Individual instructors may disallow entirely the use of such software for individual assignments or for the entire course. Students should be aware of such requirements and follow their instructors' guidelines. If no instructions are provided the student should assume that the use of such software is disallowed.

In any case, students are fully responsible for the content of any assignment they submit, regardless of whether they used an AI, in any way. This specifically includes cases in which the AI plagiarized another text or misrepresented sources.

13.99.99.R0.03 Undergraduate Academic Dishonesty

13.99.99.R0.10 Graduate Student Academic Dishonesty

## **Students with Disabilities-- ADA Statement**

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you have a disability requiring an accommodation, please contact:

### **Office of Student Disability Resources and Services**

Texas A&M University-Commerce

Gee Library- Room 162

Phone (903) 886-5150 or (903) 886-5835

Fax (903) 468-8148

Email: [studentdisabilityservices@tamuc.edu](mailto:studentdisabilityservices@tamuc.edu)

Website: [Office of Student Disability Resources and Services](#)

<http://www.tamuc.edu/campusLife/campusServices/studentDisabilityResourcesAndServices/>

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The Counseling Center at A&M-Commerce, located in the Halladay Building, Room 203, offers counseling services, educational programming, and connection to community resources for students. Students have 24/7 access to the Counseling Center's crisis assessment services by calling 903-886-5145. For more information regarding Counseling Center events and confidential services, please visit [www.tamuc.edu/counsel](http://www.tamuc.edu/counsel)

### **Nondiscrimination Notice**

Texas A&M University-Commerce will comply in the classroom, and in online courses, with all federal and state laws prohibiting discrimination and related retaliation on the basis of race, color, religion, sex, national origin, disability, age, genetic information or veteran status. Further, an environment free from discrimination on the basis of sexual orientation, gender identity, or gender expression will be maintained.

### **Campus Concealed Carry Statement**

Texas Senate Bill - 11 (Government Code 411.2031, et al.) authorizes the carrying of a concealed handgun in Texas A&M University-Commerce buildings only by persons who have been issued and are in possession of a Texas License to Carry a Handgun. Qualified law enforcement officers or those who are otherwise authorized to carry a concealed handgun in the State of Texas are also permitted to do so. Pursuant to Penal Code (PC) 46.035 and A&M-Commerce Rule 34.06.02.R1, license holders may not carry a concealed handgun in restricted locations.

For a list of locations, please refer to the [Carrying Concealed Handguns On Campus](#) document and/or consult your event organizer.

Web url:

<http://www.tamuc.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/34SafetyOfEmployeesAndStudents/34.06.02.R1.pdf>

Pursuant to PC 46.035, the open carrying of handguns is prohibited on all A&M-Commerce campuses. Report violations to the University Police Department at 903-886-5868 or 9-1-1.

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## COURSE OUTLINE / CALENDAR

### Lecture Schedule

Week	Date	Lecture Topic	Relevant Readings
UNIT 1: Environmental Factors that Influence Cultivation of Plants			
1	June 05 – 09	Course introduction and syllabus review	-
		Cultivated Plants: Naming, Classifying	Chapter 10
		Growing Plants for Human Use	Chapter 3
		Climate and Its Effects on Plants	Chapter 4
		Soils	Chapter 5
UNIT 2: PLANT STRUCTURE, GROWTH, DEVELOPMENT			
2	June 12 – 16	EXAM 1	6
		Structure of Higher Plants	Chapter 6
		Plant Growth and Development	Chapter 7
		Plant Chemistry and Metabolism	Chapter 8
3	June 19 – 23	EXAM 2	
		Genetics and Propagation	Chapter 9
		Photosynthesis and Respiration	Chapter 11
		Water Relations	Chapters 12
		Mineral Nutrition	Chapter 13
UNIT III – Plant Production and Utilization			
4	June 26 – 30	EXAM 3	
		Soil, Water, and Fertility Management	Chapter 14
		General Considerations for Production	Chapter 16
		Field Crops Grown for Food, Fiber	Chapters 17
5	July 03 – 07	Forage Crops	Chapter 18
		FINAL EXAM	

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