



AGRONOMY LAB AGRI 1107

Course Syllabus: Spring 2026

"Northeast Texas Community College exists to provide personal, dynamic learning experiences empowering students to succeed."

Instructor: Bernie Binns

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Office	Monday	Tuesday	Wednesday	Thursday	Friday	Online
Hours		2pm - 4pm		2pm - 4pm	By Appointment	By Appointment

This syllabus serves as the documentation for all course policies and requirements, assignments, and instructor/student responsibilities.

Information relative to the delivery of the content contained in this syllabus is subject to change. Should that happen, the student will be notified.

Course Description: Laboratory activities will reinforce the fundamental principles and practices in the development, production, and management of field crops including growth and development, climate, plant requirements, pest management, and production methods.

Corequisite: AGRI 1307 Agronomy (lecture)

Prerequisite(s): none

Student Learning Outcomes:

1. Apply scientific reasoning to investigate questions and utilize scientific and agronomic tools to collect and analyze data and demonstrate methods.
2. Use critical thinking and scientific problem-solving to make informed decisions.
3. Communicate effectively the results of scientific investigations.
4. Summarize the role of climate and geography in present and past crop production.
5. Explain the growth and development of crops.
6. Analyze the impact of climate on crops.
7. Assess the interactions of soils, water, and fertility on crop production.
8. Contrast methods of pest management in crop production.
9. Differentiate production methods based on geography and crop selection.

Evaluation/Grading Policy:

Grades will be computed as follows:

Quizzes/Assignments:	20%
Class Participation:	40%
Skills Test:	20%
Group Project	20%

The grading scale below will be used to determine your final grade.

Points	grade
90-100	A
80- 89	B
70- 79	C
60- 69	D
BELOW 59%	F

Quizzes/Assignments:

We will have written and oral quizzes during the semester. They will be announced and unannounced. We will also have a variety of individual and group assignments.

Class Participation:

Class participation is based on attendance, discussion, and participation. There will be no make-up days for class participation.

Skills Test:

Students will be required to perform a variety of agronomy skills: planting techniques, fertilizer recommendations, harvesting techniques, hay analysis, and soil sampling. There will be no make-up days for class participation.

GROUP PROJECT:

Students will work in groups to identify a problem or question in plant science. The group will form a hypothesis of the question and test the hypothesis by doing an experiment(s) and then report the results in class for discussion. Your grade will be assessed on the group and individual effort within the group on the presentation of their hypothesis, experiment, and results.

Required Instructional Materials: None

Publisher: **ISBN Number:**

Optional Instructional Materials: none

Minimum Technology Requirements: none

Required Computer Literacy Skills: none

Course Structure and Overview:

Class attendance is required. If you have more than three unexcused absences, you should consult with me about your grade. Anyone who wishes to withdraw from class must take the responsibility to formally drop with the Registrar; otherwise a failing grade will be given.

Communications: Email and Microsoft Teams will be the official class communication method.

Institutional/Course Policy:

Class attendance is required. If you have more than three unexcused absences, you should consult with me about your grade. Anyone who wishes to withdraw from class must take the responsibility to formally drop with the Registrar; otherwise a failing grade will be given.

Alternate Operations During Campus Closure and/or Alternate Course Delivery Requirements

In the event of an emergency or announced campus closure due to a natural disaster or pandemic, it may be necessary for Northeast Texas Community College to move to altered operations. During this time, Northeast Texas Community College may opt to continue delivery of instruction through methods that include, but are not limited to, online through the Blackboard Learning Management System, online conferencing, email messaging, and/or an alternate schedule. It is the responsibility of the student to monitor NTCC's website (<http://www.ntcc.edu/>) for instructions about continuing courses remotely, Blackboard for each class for course-specific communication, and NTCC email for important general information.

Additionally, there may be instances where a course may not be able to be continued in the same delivery format as it originates (face-to-face, fully online, live remote, or hybrid). Should this be the case, every effort will be made to continue instruction in an alternative delivery format. Students will be informed of any changes of this nature through email messaging and/or the Blackboard course site.

NTCC Academic Honesty/Ethics Statement:

NTCC upholds the highest standards of academic integrity. The college expects all students to engage in their academic pursuits in an honest manner that is beyond reproach using their intellect and resources designated as allowable by the course instructor. Students are responsible for addressing questions about allowable resources with the course instructor. Academic dishonesty such as cheating, plagiarism, and collusion is unacceptable and may result in disciplinary action. This course will follow the NTCC Academic Honesty and Academic Ethics policies stated in the Student Handbook. Refer to the student handbook for more information on these subjects.

ADA Statement:

It is the policy of NTCC to provide reasonable accommodations for qualified individuals who are students with disabilities. This College will adhere to all applicable federal, state, and local laws, regulations, and guidelines with respect to providing reasonable accommodations as required to afford equal educational opportunity. It is the student's responsibility to request accommodations. An appointment can be made with the Academic Advisor/Coordinator of Special Populations located in Student Services and can be reached at 903-434-8264. For more information and to obtain a copy of the Request for Accommodations, please refer to the special populations page on the NTCC website.

Family Educational Rights and Privacy Act (FERPA):

The Family Educational Rights and Privacy Act (FERPA) is a federal law that protects the privacy of student education records. The law applies to all schools that receive funds under an applicable program of the U.S. Department of Education. FERPA gives parents certain rights with respect to their children's educational records. These rights transfer to the student when he or she attends a school beyond the high school level. Students to whom the rights have transferred are considered "eligible students." In essence, a parent has no legal right to obtain information concerning the child's college records without the written consent of the student. In compliance with FERPA, information classified as "directory information" may be released to the general public without the written consent of the student unless the student makes a request in writing. Directory information is defined as: the student's name, permanent address and/or local address, telephone listing, dates of attendance, most recent previous education institution attended, other information including major, field of study, degrees, awards received, and participation in officially recognized activities/sports.

Tentative Course Timeline (*note* instructor reserves the right to make adjustments to this timeline at any point in the term):

Labs will be scheduled with the Farm Manager as to the timing of our activities. The activities will include:

1. Plant Identification
2. Weed Management
3. Soil Sampling
4. Fertilization Requirements
5. Compost Tea
6. Seeding Rates
7. Pest Management Techniques
8. Crop Selection
9. Forage Management
10. Moisture Management
11. Stored Forage Requirements
12. Hay Analysis
13. Harvesting Techniques
14. Production Calculations
15. Stocking Methods
16. Seed Bed Preparation Techniques