Horticulture Lab AGRI 1115

Course Syllabus: Fall 2020

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

Instructor: Cheyenne Lee
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	Monday	Tuesday	Wednesday	Thursday	Friday	Online
Office Hours	By appointment	8:30-10:30am	By appointment	8:30-10:30am	N/A	By appointment

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: 1 credit hour - This laboratory-based course accompanies AGRI 1315. Laboratory activities will reinforce the fundamental principles and practices in the development, production, and management of horticulture crops including growth and development, climate, plant requirements, pest management, and production methods.

Prerequisite(s): None
Co-requisite(s): Agriculture majors are required to enroll in AGRI 1315.

Rationale:
Horticulture enriches our lives by providing such basic requirements as nutritious food, esthetic environment, and emotional well-being. Gardening and other horticultural practices have long been considered as the most favorite leisure activities in American life. This class is designed to provide first-hand experiences in basic horticulture to students interested in the subject.

Lab Content: Lab materials and content will be provided and take place on NTCC Sustainable Market Farm and in the greenhouse.

Student Learning Outcomes: Upon successful completion of this course, students will demonstrate a competency of the following:

- Apply scientific reasoning to investigate questions and utilize scientific and horticultural tools to collect and analyze data and demonstrate methods.
- Use critical thinking and scientific problem-solving to make informed decisions.
- Communicate effectively the results of scientific investigations.
- Identify the various horticultural industries and their roles in our society.
- Describe the fundamentals of plant science.
- Assess the interactions of soils, water, and fertility in plant science.
- Contrast the methods of plant reproduction and propagation.
- Explain the impacts of production methods and technologies on plant science.
- Contrast methods of pest management in plant science.
- Investigate methods of environmental manipulation (e.g. greenhouse controls, frost management methods, hot caps).

Evaluation/Grading Policy: Grades for this course are separate from the lecture AGRI 1315 course. Attendance and participation is mandatory. Absences must be made up in a timely manner (if excused). Bonus point opportunities may become available.

Points Grading Scale

Three lab practicums	100 (3)
Attendance	50
Activities (Class Participation)	250

	Total: 600

A	90-100%
B	80-89%
C	70-79%
D	60-69%
F	<60%

Required Instructional Materials: Spiral notebook with pockets and appropriate clothing for outdoor work environment.

Publisher: Cengage Learning **ISBN Number:** 9781435480414

Optional Instructional Materials: Introductory Horticulture, Eighth Edition, Carroll L. Shry, Jr. and H. Edward Reiley

Minimum Technology Requirements: None

Required Computer Literacy Skills: None

Course Structure and Overview:

- **Lab Practicums:**
  1. Three lab skills examinations are submitted throughout the semester. Each is worth 100 points. Students will demonstrate a process or be asked to identify and classify horticulture structures/tools etc. Notes taken by student may be used.

- **Attendance:**
  2. Attendance is mandatory and is worth 50 points. Should you miss a lab for any college approved excused absence, you will be allowed to make up that lab. Any other absences not cleared by me will not be allowed the same opportunity.

- **Activities (Class Participation):**
  3. As this is an applied lab necessary for the function and operation of The NTCC Sustainable Market Garden, your participation is imperative to the garden's success. For this reason, your participation in weekly lab and assigned activities are a large portion of your overall grade. Students will receive 10 points for each lab the complete and are present, prepared for lab and on time. Total possible points = 250 of the total 600 points possible for this course.

Communications: Office hours for the instructor: 8:30 a.m.- 10:30 a.m., Tues. and Thurs. You may also arrange for an appointment by either in-person or zoom video conferencing.

Institutional/Course Policy:

- **Agriculture Majors:**
    1. This course can serve as a required course option in the Ag concentration for all agriculture majors.
- **Non-Majors:**
    2. This class is available to all students interested in the subject matter for the general education requirement in science and technology. This course is designed to provide a broad range of training in practical horticulture to any student who likes to work with plants, gardens, landscapes and lawns.

- **Class Attendance:**
    3. Regular attendance of classes is required. In case of sickness or other emergencies, students should contact the instructor so that make-up lab exercise can be arranged.

- **Students with Special Needs:**
    4. Any student with disabilities or other special needs, who needs special accommodations in this course, is invited to share these concerns or requests with the instructor as soon as possible. Reasonable accommodations will be made accordingly but it is your responsibility to seek out the instructor as needed.

    5. The use of cell phones or texting devices is prohibited during class and lab however, students using said devices in a manner in which causes a disturbance in the course will be asked to leave for the lab period and loose the points for the lab.

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):

(Assignments dates may be altered due to weather/availability of materials etc.)

Week 1: Introduction

- Meet
- Lab spaces and areas
- Scientific methods, experimentation, and expectations.

Week 2: Benefits of the Horticulture Industry

Week 3: Scientific Classification and Nomenclature of Plants

- Review Thursday for lab practicum.

Week 4: Anatomy of Plants

- First lab practicum.

Week 5: Plant Structures and Functions

Week 6: Plant Evaluation

Week 7: Plant Propagation I and II

- Review Thursday for lab practicum

Week 8: Soils of the United States: Southern Region

- Second lab practicum.

Week 9: Plant Pests: Bacterial Diseases

Week 10: Plant Pests: Fungal Diseases

Week 11: Vegetable Production

Week 12: Marketing Greenhouse Crops

Week 13: Introduction to Greenhouse Management

Week 14: Dead Week

- Review for final lab practicum.
- Make up labs for excused absences

Week 15: Final lab practicum

- HAVE A GREAT BREAK