



Agricultural Construction

AGRI 2403

Course Syllabus

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Spring, 2017

**Course Description:**

The selection, use, and maintenance of hand and power tools; arc and oxy-acetylene welding; and construction materials and principles in agriculture.

**Course Goals:**

This course is designed to introduce students with principles and application of carpentry, preparation of drawings, material bills, blueprint reading, tool maintenance, tool and hardware nomenclature, preparation and use of concrete. Cold metal work, arc, mig, and oxy-acetylene welding. Operation of the oxy-acetylene cutting torch. Fundamentals required for successful planning and preparation to design, plan, and erect agricultural use buildings.

**General Course Requirements:**

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.

**Class Hours**

TR 8:00-10:50

**Office Hours**

MW 7:30-8:00, 1:00-1:30, 3:30-4:30  
TR 7:30-8:00, 12:00-1:30, 3:30-4:30

Appointments with me may be scheduled at other times. Call for an appointment at (903) 434-8177, Office AGC 110. E-mail address: chenry@ntcc.edu

**Grading:**

Grades will be computed as follows:

Final Exam:	20%
Quizzes:	20%
Class Participation:	10%
Skills:	40%

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

**Class Participation:**

Class participation is based on attendance, classroom discussion, assignments, and participation.

**Quizzes:**

We will have both announced and unannounced quizzes during the semester and will consist of both written and oral quizzes.

**Skills:**

Your skills grade will be based on participation (so attendance is important), and being able to demonstrate proper techniques in various agriculture construction skills such as metal work, wood work, plumbing, concrete, nomenclature, planning, and design. Lab work may require suitable clothing for outdoor farm settings.

**ACADEMIC HONESTY POLICY**

“Students are expected to complete course work in an honest manner, using their intellects and resources designated as allowable by the course instructor. Students are responsible for addressing questions about allowable resources with the course instructor. **NTCC upholds the highest standards of academic integrity. This course will follow the NTCC Academic Honesty policy stated in the Student Handbook.**”

**ADA Statement**

**It is the policy of Northeast Texas Community College 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 arrange an appointment with a College counselor to obtain a Request for Accommodations form. For more information, please refer to the Northeast Texas Community College Catalog or Student Handbook.**

## **Course Objectives:**

The Student should be able to:

- Understand the importance of safety in working with farm tools and machinery.
- Understand the dangers involved with working with farm tools and machinery.
- Identify and perform maintenance procedures on common tools associated with wood and metal working
- Properly adjust and operate metal cutting and welding equipment
- Understand the importance of project planning and cost estimates
- Plan and design projects for agriculture application including material bills, concrete, wood, metal, utilities, and labor
- Understand the basics of residential plumbing
- Understand the basics of fence building