

Agriculture Power, Structure and Technology I

Course Syllabus

Lexington High School

Instructor: Mr. Keith Nielson

Contact Information: keith.nielson@lexschools.org

308-324-4691 ext. 2908

Course Description:

This course introduces selected major areas of agricultural mechanics technology including small engine operation and repair, metal fabrication, woodworking, and electrical wiring. Learning activities include basic understanding, skill development and problem-solving. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities.

Course Content and Essential Outcomes:

Students will understand and model safe lab procedures and techniques.

Students will understand and accurately apply measurement.

Students will select the appropriate fasteners/adhesives.

Students will understand material types and properties.

Students will process material.

Students will select tools for the correct operation.

Students will produce a product.

Course Content: (Topics Covered, Special Activities, Projects, etc.)

1. Basic woodworking
2. Use of arc welding and Oxygen acetylene
3. Basic Electrical
4. Hydraulics & Pneumatics

Learning Methods

Agricultural Mechanics and Technology Systems, 1st Edition

Wood Technology & Processes; Glencoe

Welding Principles and Applications

AgEdnet.com

Materials Needed:

Students will need pencils, paper and an iPad every day. Students will be responsible for maintaining a 3-ring notebook. Textbooks will be kept in the classroom.

Grading: Quarter (45%) + Quarter (45%) + Semester Final (10%) = Semester (100%)

Quarter grades:

Tests /Quizzes- 40% Labs/Projects – 35% Homework/Classwork – 20% Early work 5%

LATE WORK: All assignments have a due date. I expect all work to be turned in on time. 25 points will be deducted for every day it is late. After 3 days it will be counted as a "0".