

# **CROCKETT COUNTY HIGH SCHOOL SYLLABUS**

**Principles of Agricultural Mechanics**

**Neil Bringle**

**Room 402/404/AG SHOP**

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**COURSE DESCRIPTION:** Principles of Agricultural Mechanics is an intermediate course introducing students to basic skills and knowledge in construction and land management for both rural and urban environments. This course covers topics including project management, basic engine and motor mechanics, land surveying, irrigation and drainage, agricultural structures, and basic metalworking techniques. Upon completion of this course, proficient students will be prepared for more advanced coursework in agricultural mechanics.

**SUPPLIES:** Change of clothes (Optional, but the following are prohibited in shop at certain times. Shorts, open-toed shoes, loose/baggy clothing, excessive jewelry)  
Notebook for note taking (Folder or 3-ring binder will work)  
Pencil or Pen

## **CLASSROOM EXPECTATIONS:**

1. All students will respect Mr. Bringle, peers, and any guests of the classroom.
2. **ABSOLUTELY NO CELL PHONES ALLOWED!! NO EXCEPTIONS!!**
3. You will participate in everything required of you. Laziness is NOT tolerated!
4. Remember Mr. B's 4 P's... Be positive, productive, polite, punctual.
5. No Excuses!!
6. Follow all other rules outlined in the student handbook.

## **CCHS OFFICIAL GRADING SCALE**

93-100 = A  
85-92 = B  
75-84 = C  
70-74 = D  
69-0 = F

## **GRADING CATEGORIES:**

25% - *DAILY CLASS WORK*  
50% - *TEST GRADES*  
25% - *EXAM GRADE*

## MAJOR UNITS AND PROJECTS

### 1<sup>ST</sup> QUARTER

#### Safety

Students will focus on:

- Identifying basic safety procedures
- Applying basic safety procedures
- Passing safety test with 100% accuracy

#### Project Management:

Students will:

- Differentiate tools to determine the right tool for the job
- Prepare budget and cost estimate for various projects

#### Surveying

Students will:

- Determine the acreage of a particular plot of land
- Determine the difference in elevation using transit and tripod method

### 2<sup>nd</sup> QUARTER

#### Engine and Motor Mechanics:

Students will:

- Learn parts and components of Small engines
- Learn how 2-cycle and 4-cycle engines operate and function
- Troubleshoot and diagnose engine problems

#### Agricultural Structures:

Students will:

- Learn basic plumbing techniques
- Conduct plumbing exercise
- Learn basic electrical wiring
- Electrically wire a toggle switch to light fixture
- Learn basic woodworking
- Construct woodworking project
- Learn basic metal working
- Conduct welding exercise

### PROJECTS: (DUE DATES WILL BE ANNOUNCED CLOSER TO DATES)

- Safety Test
- Tool ID Test
- Small Engine ID Test
- Small Engine Measurements and Diagnosis
- Acreage Assessment
- Differential Leveling Assessment
- Plumbing Project
- Electrical Wiring Project
- Woodworking Project
- Welding Project

### PARENT RESOURCES:

<http://crocketthigh.ccschools.net/>

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I have read over the syllabus and I have noted that classroom behavior and student responsibility are significant factors in determining the final grade. I also have read and understand the class policies. I also understand that I can contact the teacher at [neil.bringles@crockettschools.net](mailto:neil.bringles@crockettschools.net) or call CCHS at 731-696-4525 to set-up a meeting with the teacher.

Student name: \_\_\_\_\_  
Parent name: \_\_\_\_\_

Student signature: \_\_\_\_\_  
Parent signature: \_\_\_\_\_