

AGRICULTURAL MECHANICS (Ag Mechanics)

Mrs. Banks

Open to Grades 11-12

Credit: ½

Type: Elective.

Length: Semester-long

Prerequisites: Ag-Ed I & Ag-Ed II, Junior or Senior

Course Description:

The Ag Mechanics course focuses on the systems that enable vehicles and equipment to run. Mechanical, carburetion, lubrication, and ignition systems will be covered. Disassembly, repair, and re-assembly of an engine is done. Maintenance, minor repair and adjustments are stressed.

Textbooks and Materials:

Textbooks are not assigned but will be used in the classroom. Supplemental materials such as the MyCaert curriculum will be used. Students will be required to regularly update and maintain an account on the Agricultural Experience Tracker (AET), serving as a portfolio of the class and their out of school experiences.

Class Materials:

Each student needs a pencil and notebook paper each day.

Projects will require materials as planned. For those students who do not wish to keep the completed project or for projects built for the school or class projects, the materials will be provided.

Class Rules:

All conduct shall contribute to the success of the class, whether in the lab or in the classroom.

Grading Plan:

Student grades will be based on projects, class participation, activities and worksheets, tests and a portfolio. The portfolio will consist of summative projects from each section, photos of projects, a cover letter, resume, extra-curricular activities, and SAE records and information. The portfolio will be collected at the end of each semester and presented at the mid-term of fourth quarter. Participation is graded daily. Grades are based on a point system. Values will vary based on the difficulty and importance.

Homework and Makeup Work:

Absent students are responsible for getting their own work and turning it in per District policy.

Late work will be accepted for 2 class days after the due date and time with 10% of the achieved grade being deducted for each late day. After 2 days (20%), late work will not be accepted.

Overview of Topics:

- Lab safety & orientation
- Mechanical careers
- Tool use & identification
- Functions of the 4 systems
- Engine operation principles
- Engine system principles
- Planning
- Small engine overhaul
- Engine trouble shooting & maintenance
- Engine tune-up

