**FACILITIES DESIGN AND FABRICATION**

**Course Syllabus**

**Instructor:** Mr. Jay Trees

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**Course Information**

This course will prepare students for careers in mechanical systems. Students will attain knowledge and skills related to facilities and fabrication. This is an advanced hand on learning course that allows students to further welding and construction skills learned in previous mechanized courses. More specific skills in site location, material installation, and construction methods are learned. Students will have the opportunity to develop plans and construct projects using metal working, welding, and woodworking. Students can receive NCCER certification.

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**Class Objectives**

During the course of this semester, we will cover a wide range of topics concerning agriculture structures. Some of the topics we will cover are listed below:

* Entrepreneurship & Employment Opportunities
* Planning and Constructing Ag Buildings
* Planning and Construction of Ag Enclosures
* Install, Service, and Maintain Electrical Systems
* Place, Finish, and Cure Concrete Slabs
* Construct and Maintain Structures
* Traditional and Non Traditional Building Techniques
* Select and Use Surveying Equipment
* Plan, Establish, and Maintain Water Management Systems

**Materials Needed**

* Notebook to take notes, handouts, and graded papers home with you.
* Composition Notebook for daily journals which will stay in the classroom.
* Paper
* Pen
* Pencil

**Note from the Instructor**

Howdy! Welcome to the Agriculture, Food, and Natural Resources department, more commonly known as “Ag”. We are excited to bring in a new year. As a member of this class, you are also provided with FFA membership and all of the opportunities that come with it. I encourage you to get involved and attend the first couple of meetings to find out what it is all about. FFA offers something for everyone. It can be a great opportunity for you to make new friends, explore your interests, prepare for a career, and earn scholarship money!

- Mr. Trees

**Grading Scale**

*Tests/ Major Projects:* These will consist of written tests and shop projects (individual & team)

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*Daily Assignments:* This will include daily grades from activities and assignments during class. The record book and journal grades will also fall under this category.

* **Record Books-** The Texas Education Agency requires that students taking Agricultural Science classes maintain a record book. A written copy of the record book will remain in the classroom, and they will also be updated online. Students will be given time during class to update their books. All students are expected to keep the record book current. Students will receive a weekly grade.
* **Journals**- Students are required to record journals in this class. They will be kept in the classroom, updated by the student at the beginning of each class period, and used to record class notes. Journals will be available for students to take home to assist with homework or test preparation; however they will be graded regularly. Therefore, it is very important that journals are kept in the appropriate section of the classroom so that they are available for grading.

*Homework:* This category includes any assignments to be brought home for homework or completed outside of class.

*Late Work:* Grades on late work will be reduced by 10%. Students have one additional day for each day absent before an assignment will be counted late. Major projects which were assigned due dates prior to the absence will still be due on the day that the student returns.

