Agricultural Construction

Course Description and Rationale

This course utilizes welding in the development and construction of major metal and wood shop projects. Agriculture encompasses the food, fiber, conservation, and natural resource system, employing over 20% of the nation’s workforce. Advanced skills in welding, woodworking, and project construction provide students with entry-level agricultural construction skills.

Course Objectives

By the completion of this course students should be able to:
- Understand the importance of safety procedures when using shop equipment.
- Identify different uses for the different shop equipment.
- Weld in the horizontal, vertical up, vertical down, and flat positions with the arc welder and MIG welder.
- Perform cutting with the oxy-acetylene unit.
- Perform all tasks used in selection, building and finishing of a shop project.

Grading Percentages

70% Safety Tests, Classroom Assignments, and Lab work
30% Daily Grade-Attendance, Class Participation, etc.

Grading Scale

95-100% A
90-94% A-
87-89% B+
83-86% B
80-82% B-
77-79% C+
73-76% C
70-72% C-
67-69% D+
63-66% D
60-62% D-
Below 60% F

Academic Dishonesty: Cheating of any sorts will not be tolerated. Offenders will receive a zero for that assignment and will be referred to the office for further punishment according to the BTEC Handbook.
**Class Requirements**

- You will be required to wear safety glasses when in the **lab at all times! NO EXCEPTIONS!** This is not only a class rule, but a school rule, State Rule and Federal Rule.
- You will be expected to wear the proper clothing in the lab at all times. You will be assigned a locker and lock where you can store your clothes. Just because you have a game does not mean you are exempt from work!
- If you are absent, it is your responsibility to ask for make up work, not mine. You can make up work for days absent, but you will not be able to make up your daily grade.
- All project materials that are billed through the school can be paid for upon delivery, or in thirds as billed by BTEC. Under no circumstances will projects be taken home until bills are paid in full.
- Intentional destruction of school property will result in immediate removal from the class.
- Students are not to leave Ag lab area without permission from me.
- Students are to be working at all times, if you don’t have a project yet, you are to help someone who does, clean the lab, or see me for something to do.
- All students will be required to build a project or combination of projects that are equivalent to 60 purple points from the list of FFA Ag Mechanics Projects at the Missouri State Fair. If your project isn’t listed, see the instructor to discuss and assign points to your project. See the Attached list, but projects are not limited to what is listed.
- FFA Membership is required

**Instructor Information**

Mr. Doug Henke, Instructor  
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Plan period is 7th Hour.

Website- [https://www.boonville.k12.mo.us/schools/btec/organizations/ffa/Pages/default.aspx](https://www.boonville.k12.mo.us/schools/btec/organizations/ffa/Pages/default.aspx)