

11th/12th Grade-Agriculture Mechanics/ Technology II Syllabus

Instructor Information

Instructor: Amanda S. Huettl
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Course Information

Grade Level: Juniors/Seniors

Course Meets: Monday-Friday

Available Credit: 1 Elective Credit toward graduation requirements

*Credit is useful for the **ND Academic Scholarship and ND CTE Scholarship**

Course Duration: Year long

Pre-Requisites: Beneficial to have Intro to Agriculture and Foundations of Agriculture prior to taking this course, however, it is not required.

Course Description:

This applied course is designed to enhance student's perception of agriculture, its applications, and leadership development as the core foundation of the Agriculture Education program. Individual units will familiarize the student with: basic mechanical theory and skills. Areas of emphasis include leadership skills, plant science, animal science, mechanical skills, and agricultural economics. A heavier emphasis on agriculture mechanics is found in this course.

Materials:

- *Writing utensil (pencils for shop and homework assignments; blue or black pen for note taking and class activities)
- *Three-Ring binder
- *Notebook or Loose-leaf paper
- *Flash Drive
- *Appropriate Shop Clothing (on shop days only)
 - Long pants
 - Closed-toe shoes
 - No "baggy" clothing
 - Hair ties to pull back long hair

POSSIBLE CONTENT STANDARD AREAS TO BE TAUGHT IN CLASS

Standards have not been established for this area in Agriculture Education. Units to be taught with flexibility

- Continue their education in FFA and its leadership activities / opportunities.
- Learn principles of surveying.
- Gain an understanding of Advance principles in Welding and manufacturing, by using the SMAW – stick welding, GMAW – wire welding, introduction of TIG and/or aluminum welding, and the Oxy – fuel process.
- Advanced use and understanding of woodworking.
- Complete a record book, where they will understand the importance of accurate records. Use of the AET online record book system.
- Advanced knowledge in Agribusiness and Entrepreneurship.
- Exposed to plumbing and soldering principles used in household and industry.
- Exposure to and development of understanding in concrete and masonry.
- Gain understanding of a small engine and its functions.

Possible Projects

Wood and/or Metal

*Students will choose a large scale project to build. They will draft the project, develop a bill of materials, and order/provide materials to build the project.

*Students may build more than one project a year; however, all projects need to be approved by the instructor. Project choice exceptions can be made based on a student's experience in the shop area.

*Possible project choices:

- Large Plasma Art Projects
- Trailer Construction
- Small Shed Construction
- Picnic Tables
- Hay Feeders
- Etc.

**Daily Participation Points will be issued when the students are engaged in a lab situation in the shop or classroom. Ten points per day will be the maximum each student will be able to earn. The following is a guideline that the Instructor will use for evaluation and granting of points to each student.*

<u>Points Earned</u>	<u>Degree of Participation</u>
10	-Student worked diligently/took part in the activity to best of his or her ability for the duration of the class period. The student also followed all outlined safety procedures, assisted in clean up at the conclusion of the activity, and waited for dismissal from the instructor.
5	-Student worked diligently/took part in the activity to the best of his or her ability for the duration of the class period. However, he or she did not deem it necessary to assist their classmates in clean up at the conclusion of the class period and/or await dismissal from their instructor. (Examples include: wearing safety glasses, proper storage of shop and lab equipment, etc.)
0	-Student worked diligently/took part in the activity to best of his or her ability for the duration of the class period. However, he or she did not deem it necessary to follow all of the outlined safety procedures throughout the activity. (Examples include: repetitively reminded about wearing safety glasses, proper use of power tools, shop and lab equipment, shop procedures, horseplay, etc.)

As you may see, the preceding is a pass or fail option. Stellar work habits, sound implementation of safety and sanitation practices, performance of assigned clean up duties, and solid listening skills will ensure success-not only with your course grade, but long into your future as well. Shoddy workmanship, shortcuts that compromise safety and laziness will not be tolerated. Take pride in your work, our equipment, and our wonderful facility!

Agriculture Education Lab and Classroom Policies

*Students will follow the Student Handbook and additional shop and classroom policies provided to them the first week of school. See also: "Lab and Classroom Policies" under the Agriculture Education section of the Max Public School Webpage.

Student Evaluation and Classification

The grading system shall be:

A-Superior (100-93)

B-Above Average (92-85)

C-Average (84-77)

D- Below Average (76-69)

F Failing (68 and below)

Websites-

- **National FFA Website** www.ffa.org
- **The Agriculture Experience Tracker** www.theaet.com
- **Max Public School Website** www.max.k12.nd.us//index.html
- **North Dakota FFA Website** www.ndffa.org
- **North Dakota FFA Foundation Website** www.ndffaoundation.co