



## **Spring 2020 SYLLABUS**

**Course Name:** ***Agricultural Mechanics and Metal Technologies,  
for grades 9 - 12***

**Course Overview:** To be prepared for careers in agricultural power, structural, and technical systems, students need to attain academic skills and knowledge; acquire technical knowledge and skills related to power, structural, and technical agricultural systems and the industry; and develop knowledge and skills regarding career opportunities, entry requirements, industry certifications, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer knowledge and skills and technologies in a variety of settings. This course is designed to develop an understanding of agricultural mechanics as it relates to safety and skills in tool operation, electrical wiring, plumbing, carpentry, fencing, concrete, and metal working techniques.

**Teacher Information:**

**Instructor:**

Dr. Marlin Priddy, AFNR Teacher and FFA Advisor  
Bachelor of Science in Agricultural Education, Tarleton State University  
Master of Science – Teaching in Agricultural Education, TSU  
Doctorate of Education in Agricultural Education, Texas A & M University and Texas Tech University

**Contact Information:**

Classroom Number: B122  
Ben Barber Innovation Academy Phone Number: 681-314-1600  
Ext. 1568  
Email: [marlinpriddy@misdmail.org](mailto:marlinpriddy@misdmail.org)

**Instructor’s Schedule:**

<b>A Days</b>		
Block 1	Wildlife, Fisheries and Ecology Management ( TEKS 130.17)	7:00 a.m. – 10:00 a.m.
	Conference/Planning/Lunch	10:05 a.m. – 11:25 a.m.
Block 2	Agricultural Mechanics and Metal Technology (TEKS 130.26)	11::30 a.m. – 2:30 p.m.
<b>B Days</b>		
Block 1	Wildlife, Fisheries and Ecology Management ( TEKS 130.17)	7:00 a.m. – 10:00 a.m.



	Conference/Planning/Lunch	10:05 a.m. – 11:25 a.m.
Block 2	Practicum in Agriculture, Food, and Natural Resources (TEKS 130.31)	11:30 a.m. – 2:30 p.m.

**Instructional Units for the Course:**

- A. Employability characteristics of a successful employee
- B. Operating instructions for tools and equipment
- C. Electric wiring skills
- D. Plumbing skills
- E. Concrete construction skills
- F. Carpentry skills
- G. Fence construction techniques and skills
- H. Cold and hot metal techniques and skills
- I. Supervised Agricultural Experience (SAE)
- J. Metal merging technology and processes
- K. Plan and perform cost-effective construction techniques

**Grading Periods**

- 4<sup>th</sup> –January 8 – February 2, 2020
- 5<sup>th</sup> – February 24 – April 9, 2020
- 6<sup>th</sup> – April 13 – May 28, 2020

**Text, Readings, Materials:** Textbooks, web page links for additional help in subject area, reading list, etc.

- 1) Google Classroom – web based
- 2) The Agricultural Experience Tracker (The AET) – web based
- 3) iCEV – web based
- 4) Guest speakers
- 5) Lincoln website
- 6) Miller Welds website
- 7) Field Trips
- 8) Teacher prepared notes and handouts
- 9) YouTube – web based
- 10) Texas FFA website
- 11) National FFA website
- 12) Mansfield FFA website
- 13) *Parliamentary Guide* for FFA by Jarrell D. Gray

**Supplementary reading(s)** – Include a reading list or outside materials that a parent can reference if the student needs additional help with difficult concepts. (See the list above.)

**Materials/Supplies –**

- Spiral notebook, 50 pages



- Pen, pencils, and markers
- MISD issued Apple iPad mini
- A 1” three ring binder and tri-fold display board will be needed for the SAE (Supervised Agricultural Experience) presentations at the end of the semester
- Long sleeve shirt, jeans without tears or frays, closed toe leather work boot/shoe (We will be working in the lab thru out the semester). Please have these lab clothing by **January 17, 2020**. Students not having the required clothing (PPE- Personal Protective Equipment) will not be allowed to operate equipment or participate in the activity for safety reasons. The student will receive a participation grade of 25 for that day.
- Jeans, shirts and shoes/boots may be acquired at most department stores. 100% cotton is required. Clothing should fit the student properly to insure safety and protection.
- Additional materials/supplies may be required depending upon individual course requirements which will be identified by your Agricultural Science Teacher.

**Course Calendar/Schedule:** **Every six weeks your SAE must be complete and up to date.**

#### First Six Weeks

##### Week 1

- Agricultural development and history
- Supervised Agricultural Experience (SAE)
- Safety Training
- Agricultural Mechanics project show meeting (TBA)

##### Week 2

- Safety Training
- Supervised Agricultural Experience (SAE)
- Laboratory and shop safety
- OSHA Lessons

##### Week 3

- Agricultural Leadership
- Electrical wiring
- Information Technology
- Agricultural Mechanics project show meeting (TBA)

##### Week 4

- Cold and hot metal techniques
- Introduction to Agricultural Skills Demonstration
- Begin PBL (Project Based Learning) Assignment/Activities

##### Week 5



- PBL
- Cold and hot metal skills and techniques

#### Week 6

- PBL
- Basics of layout and fabrication, reading plans and blueprints
- SAE
- AET

#### Classroom Expectations:

Be punctual, be prepared, be enthusiastic, and be polite. Please follow the MISD Student Code of Conduct.

<https://www.mansfieldisd.org/uploaded/main/departments/student-services/assets/SCOCfinal.pdf>

**Page 44** Mansfield ISD High School Student Handbook – 2016 – 17 (Mobile phones)

**Page 97 – 98** MISD HS Student Handbook – Tardies

- a. Students will be working outdoors and in the laboratory/shop making observations, collecting data and using equipment related to agricultural mechanics and metal technologies. Footwear should be designed for hiking and walking on rough or rugged terrain.

#### Rights and Responsibilities

We each have rights in the classroom that allow the school to function effectively. In order to protect these rights, we also have specific responsibilities. Below is a basic list of the most important rights and responsibilities you have as a student.

Your success in this class, as well as your lifelong success will depend on developing self-discipline. Therefore, the Agricultural Science teachers have adopted the following classroom discipline plan, which is in effect at all times. Your responsible attitude in abiding by these rules will help insure your part in enriching the learning experience of everyone.

- 1. Be prepared, professional, punctual, positive and respectful**
2. Students are not allowed to have food or drink in classrooms or work areas other than water.
3. All members of the class shall be respectful to all staff and peers
4. Come prepared, ready to work and learn.
5. Do what you are asked and keep on task.
6. No cell phones or other electronic devices will be used. Using a cellular device will result in a zero for participation for the day.

#### Behavior and Consequences

Failure to follow the classroom procedures, expectations and responsibilities will result in one or



more of the following consequences depending on the severity of the incident:

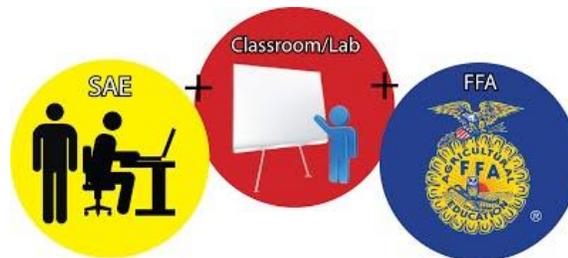
1. A reminder of the expectation
2. Student/teacher conference
3. Parent/guardian phone call and/or conference
4. Office referral

Any violation that involves the mention of bodily harm or any other severely disruptive behavior will result in immediate administrative action. Any student who receives a referral during the year in Agricultural classes may not be eligible to attend any off-grounds field trips.

*NOTE: Extreme disruption will be cause for the student to be sent to the assistant principal immediately without going through steps 1-3.*

### Participation:

Students are strongly encouraged to join and participate in the Mansfield FFA chapter. Current dues are \$20, which **NOT** includes a Mansfield FFA tee shirt. Degrees, awards, leadership development, career development and scholarships are integrated into the FFA organization.



As illustrated by the diagram above, students in agriculture classes are engaged in a three-sector approach for maximum personal growth and development. Federal law requires students to have a Supervised Agricultural Experience project and document all aspects of the selected SAE as deemed appropriate by your instructor. Maximize your leadership potential by joining and participating in the premier youth organization.

### Agricultural Mechanics and Metal Technology

#### Extra-curricular events/activities

- Agricultural Skills Demonstration – Leadership Development Event (Fall Semester)
- Agricultural Mechanics Project Show competitions (Fall and Spring)
- Tractor Technician Competition (Spring Semester)
- Public Speaking Competitions
- Agricultural Technology and Mechanical Systems – Career Development Event (Spring Semester)
- Agricultural Mechanics Proficiency Awards (Placement & Entrepreneurship)

#### Industry Certification/Credentials:

*Quality Counts Verification (Character Education)*

<http://agriflife.org/qualitycounts/>

*No cost for this credential.*



The certification test/examination is taken online in the teacher’s classroom after the students complete the modules/lessons and review.

**OSHA 10-Hour General Industry Training (Agriculture) - \$25 per individual, paid by Ben Barber CTE if the student passes.**

<http://www.careersafeonline.com>

The OSHA 10-Hour General Industry (Agriculture) training course provides training for entry level workers and employers on the recognition, avoidance, abatement, and prevention of safety and health hazards in workplaces in agriculture industry. The program also provides information regarding workers' rights, employer responsibilities, and how to file a complaint. Through this training, OSHA helps to ensure that workers are more knowledgeable about workplace hazards and their rights.

The certification test/examination is taken online in the teacher’s classroom after the students complete the modules/lessons and review. (First 6 weeks of class).

## MISD GRADING SYSTEM FOR GRADES 9-12

The district high schools use a weighted numerical grading system.\* **The following chart reflects the MISD grading system for grades 9-12:**

<b>A</b>	<b>90-100</b>
<b>B</b>	<b>80-89</b>
<b>C</b>	<b>70-79</b>
<b>F</b>	<b>Below 70</b>

An “Incomplete” (I) reflects incomplete student work and is not considered an academic grade.

\*See MISD Board Policy EIC (LOCAL).

### GRADING PRACTICES

**Six weeks grades** shall be obtained by averaging student work as detailed below. Daily assignments may count more than once, but no more than twice. MISD Curriculum Based Assessments (CBAs) are calculated as part of the daily work category.

### ELECTIVE COURSES

- 40% - Major Grades
  - ✓ SAE – (Supervised Agricultural Experience)
  - ✓ AET – (Agriculture Experience Tracker)
  - ✓ Tests
  - ✓ Reports



- ✓ PBL – (Project Based Learning) final product
- ✓ FFA Creed
- ✓ OSHA Certification Modules
- 60% - Daily Work
  - ✓ Assignments in class
  - ✓ Participation
  - ✓ Activities
  - ✓ OSHA Certification Quizzes

Page 88 MISD High School Student Handbook – 2016 – 17

Number of Grades each Six Weeks: 8 grades (minimum) 2 grades minimum per each grading category (Daily & Major)

### **NUMBER OF GRADES EACH SIX WEEKS**

- Regular Classes: 8 grades (minimum)
- All Classes: 2 grades (minimum) per each grading category
- Daily work category: 2 grades (minimum) in addition to the CBA grade

### **SEMESTER GRADES**

- Semester grades are computed for each course by averaging the numerical grades recorded for each of the three six week reporting periods and the course semester exam.
- **All courses** - Semesters One or Two:
  - First Six Weeks = 26%
  - Second & Third Weeks = 27% each
  - Semester Exam: 20%
- A student in grades 9-12, or in a lower grade when a student is enrolled in a high school credit-bearing course, will earn credit for a course only if the final grade is 70 or above. For a two-semester (1 credit) course, the student’s grades from both semesters will be averaged and credit will be awarded if the combined average is 70 or above. Should the student’s combined average be less than 70, the student will be required to retake the semester in which he or she failed.

### **SEMESTER EXAMS**

Each semester, specific exam schedules are designated for MISD high school and dual credit courses. These schedules must be followed. Neither mid-term nor final exams are given early. If a student is absent on the day of an exam he/she will take the exam at a date/time designated by the school. A student is expected to contact the course teacher to schedule a make-up time for a **first semester exam** missed because of student absence. A student is expected to contact the school counseling department to schedule a make-up time for any **second semester exam** missed because of student absence.

### **TEST RETAKES**



- Students who fail a major test/assessment (below 70%) will be allowed to retake or correct up to a 70% grade. This does not include semester examinations.
- Students are expected to make arrangements with the teacher to retake or correct a major test/assessment.
- Students are encouraged to participate in tutoring opportunities before retaking a test.
- Each teacher will communicate routine requirements for retakes and corrections in his/her course syllabus.
- All retakes or corrections must be completed prior to the end of each six week grading period unless the student is afforded time, after the six week grading period, as a result of the district's absent/make-up guidelines.
- See UIL Eligibility ("No Pass/No Play") guidelines for additional information related to grades and UIL Eligibility.

### **LATE WORK**

- Teacher designates due date and time for assignment (Beginning of class period, End of class period, designated time of day)
- If student fails to meet the due date and time, then the student has till the next class period (next A day or B day) to turn in assignment to be considered one day late.
- Students will be assessed a penalty of 30% points for up to one class period late.
- Score of a zero may be given for work turned in after one day late.

### **MAKEUP WORK (because of absence for any class missed)**

- The teacher may assign the student makeup work based on the instructional objectives or the subject or course and the needs of the individual student in mastering the essential knowledge and skills or in meeting subject or course requirements.
- A student will be responsible for obtaining and completing the makeup work in a satisfactory manner and within the time specified by the teacher. When absent, the student is afforded the number of days missed plus one additional day to turn in makeup work. [A/B Block Example: A student misses Monday and Tuesday of the week and he/she returns on Wednesday of that same week. Student work from Monday's absence is considered late after Friday, and student work from Tuesday's absent is considered late after the following Monday.]
- A student who does not make up assigned work within the time allotted by the teacher will receive a grade of zero for the assignment.
- A student is encouraged to speak with his/her teacher if the student knows of an absence ahead of time, including absences for extracurricular activities, so that the teacher and student may plan any work that can be completed before or shortly after the absence.
- A student will be permitted to make up tests and turn in projects due in any class missed because of absence. Teachers may assign a late penalty to any long-term project in accordance with time lines approved by the principal and previously communicated to students.
- See UIL Eligibility ("No Pass/No Play") guidelines for additional information related to grades and UIL Eligibility.



## **UIL ELIGIBILITY (“No Pass/No Play”)**

- Semester grades are computed by averaging the numerical grades recorded for each of the three six week reporting periods.
- Each six week grading period will stand alone for eligibility purposes.
- A student who is declared academically ineligible after a six week grading period will be able to regain eligibility if all of the student’s grade averages are 70% or higher at the subsequent 3 week grade reporting period.
- See MISD Board Policy FM (LOCAL) – Exempt Courses.

## **STUDENT WORK**

The amount of time needed to complete assignments may vary with each student’s study habits, academic skills and selected course load. This includes major projects such as research reports, book reports, major essays, and other assignments teachers designate as major projects.

### **SAE: Supervised Agricultural Experience**

Every student enrolled in an Agricultural Science class is required by the state to have a Supervised Agricultural Experience. The requirements for these are made up of the following:

- All students enrolled in an agricultural class will have a Supervised Agricultural Experience (SAE). Students will record the hours in the online record book at [www.theaet.com](http://www.theaet.com). Students’ SAE can be an entrepreneurship, placement, or research project; and must relate to the class. The teacher of the course will approve each student’s SAE and provide guidance for his or her SAE. Detailed information will be sent out during the first two weeks of school regarding this assignment. Students who participate in the FFA organization can add additional hours outside of the classroom environment through collaboration with the FFA sponsors.
- Records must be maintained using the established Record Book management system ([www.theaet.com](http://www.theaet.com)) which will be graded throughout the duration of the course.

## **POSTING STUDENT WORK**

Student grades will be posted in Skyward parent portal within five business days for daily grades and major grades. Special consideration is given to major projects, including lengthy writing assignments.

## **Re-Take Policy**

- Students who fail a major test/assessment (below 70%) will be allowed to retake or correct up to a 70% grade. This does not include semester examinations.



- Students are expected to make arrangements with the teacher to retake or correct a major test/assessment.
- Students are encouraged to participate in tutoring opportunities before retaking a test.
- Each teacher will communicate routine requirements for retakes and corrections in his/her course syllabus.
- All retakes or corrections must be completed prior to the end of each six week grading period unless the student is afforded time, after the six week grading period, as a result of the district's absent/make-up guidelines.

**Attendance, lateness** – Classes begin at 7:00 A.M. and 11:30 A.M. depending on your schedule.

**Please read and understand the Mansfield ISD's policy and Texas law and code for attendance.**

Students who arrive to class after these times will be issued a tardy.

- First tardy = verbal reminder of the district policy for attending class on time.
- Second tardy = verbal reminder and warning
- Third tardy = after school detention
- Fourth tardy = two days of after school detention
- Fifth tardy = In school suspension
- Remember, students may be assessed a penalty of no more than 10 points per day for up to three days before a zero may be given for work not turned in on time.

**Lab safety/health** -- In some courses these issues can literally be a matter of life or death. As a part of our curriculum, welding, oxy-fuel cutting, wood working and livestock management components require hands-on learning activities.

Ben Barber Innovation Academy students enrolled in AFNR (Agriculture, Food, and Natural Resource) classes will be issued safety glasses, hearing protection, face shields and job appropriate gloves as necessary for the corresponding assignment/laboratory activity.

Students will be taught a unit on Safety in the class. Students will earn a **grade of 100** before the student can be admitted to the laboratory area. Students **MUST** wear the approved and appropriate PPE (Personal Protective Equipment) at **ALL TIMES** while in the laboratory.

**If a student does not adhere to these requirements** he/she will be given afterschool detention for the first offense. If there should be a second offense, two days of afterschool detention will be given. On the third offense, the student will be required to take a personal safety refresher module and must make 100 on the exams. Should there be a fourth offense the teacher will require the student be removed from the class for the remainder of the semester.

## **Consequences for academic dishonesty**

### **Daily Work**

- Every Offense
  - Academic and Disciplinary Consequences



- Assign grade of zero
- Write a referral
- Teacher contacts parents
- Consequence from administrator would be a minimum of AC placement

#### **Exams or Other Major Assessments**

- Every Offense
  - Academic and Disciplinary Consequences
  - Assign grade of zero
  - Write a referral
  - Teacher contacts parents
  - Consequence from administrator would be a minimum of AC placement
  - An alternative exam or major assessment can be completed for a maximum grade of 70%
  - Academic Associate is notified and will schedule a meeting with student, parent and teacher

**Elections** – The election requirements and process is found in Mansfield FFA Constitution and By-laws found on the Mansfield FFA website. <http://mansfield.ffanow.org>

## **Agricultural Mechanics and Metal Technologies**

Student and Parent/Guardian  
Syllabus Verification Form



My signature verifies/confirms that I have read, understand and will follow the guidelines as set forth by my teacher, Ben Barber Innovation Academy, Mansfield ISD, and the state of Texas.

I understand that if these guidelines are not adhered to consequences will be issued.

Student's printed name \_\_\_\_\_ Student's signature \_\_\_\_\_  
Date \_\_\_\_\_

Parent's printed name \_\_\_\_\_ Parent's Signature \_\_\_\_\_  
Date \_\_\_\_\_

As a means of communication for events and major assignment deadlines, I use the phone app (GroupMe).

Please list names of parents/guardians/student that would like to added to this communication application for iPhones and Smart phones.

Name printed \_\_\_\_\_ Cell phone \_\_\_\_\_  
Name printed \_\_\_\_\_ Cell phone \_\_\_\_\_  
Name printed \_\_\_\_\_ Cell phone \_\_\_\_\_

Also, as a teacher and parent, please list any health concerns that you believe would be important for awareness regarding your student.

Allergies \_\_\_\_\_  
Other medical concerns... \_\_\_\_\_

Best time to call for student celebration news...

Time \_\_\_\_\_ Name of Parent/Guardian \_\_\_\_\_  
Time \_\_\_\_\_ Name of Parent/Guardian \_\_\_\_\_

Other activities your student is participating or involved during the school year. (band, dance, athletics, work)

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_

List the top three accomplishments/involvement you hope to see from your student in this class.

Examples: Improved public speaking skills, Improved reasoning skills, self-confidence, career skills, Involvement in Mansfield FFA (leadership, career development, scholarship, new friends, awards recognition, raise an animal project, project construction, tractor tech)

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_

**Please complete and return this page to Dr. Priddy by January 16, 2020.**