

---

# Principles of Agriculture, Food and Natural Resources

**Midland High School | Academic Year: 2025–2026 | Length of Course: 1 Year**

**Semester:** Fall & Spring

**Number of Credit Hours:** 1 **Prerequisite:** None

**Instructor:** Reanna Bean-Rodecap • **Email:** reanna.beanrodecap@midlandisd.net •

**Conference Period:** 5th period 12:40-1:30 pm

---

## Course Description

Principles of Agriculture, Food, and Natural Resources will allow students to develop knowledge and skills regarding career and educational opportunities, personal development, globalization, industry standards, details, practices, and expectations. To prepare for careers in agriculture, food, and natural resources, students must attain academic skills and knowledge in agriculture. To prepare for success, students need opportunities to learn, reinforce, experience, apply, and transfer their knowledge and skills in a variety of settings.

---

## Course Objectives

By the end of this course, students will be able to:

Objective 1	<b>Describe</b> the historical, economic, and social development of agriculture and its impact on society.
Objective 2	<b>Explain</b> how current agricultural practices influence sustainability and the environment.
Objective 3	<b>Demonstrate</b> appropriate safety practices and personal protective equipment when working in an agricultural lab or workplace.
Objective 4	<b>Analyze</b> the interrelationships between agriculture, food, and natural resource systems within the global economy.
Objective 5	<b>Evaluate</b> the benefits and challenges of various career pathways within the AFNR cluster to develop a personal career plan.
Objective 6	<b>Create</b> a multimedia presentation that illustrates the importance of

---

	agriculture in daily life and the global marketplace.
--	---

---

## Instructional Materials & Supplies

- Chromebook (provided by Midland ISD)
  - 1 composition notebook/spiral (will be used daily)
  - Pens, pencils, & highlighters
  - 1 box of tissues
  - 1 container of Clorox wipes
  - MISD-provided instructional materials
- 

## Course Outline

UNIT	TOPIC	APPROXIMATE TIME
Unit 1	Ag. Industry	2 weeks
Unit 2	Agricultural Leadership	4 week
Unit 3	Supervised Agricultural Experience	12 weeks
Unit 4	Personal & Communication Skills	4 weeks
Unit 5	Employability Skills	2 weeks
Unit 6	Scope of Agriculture	2 weeks
Unit 7	Animal Systems	4 weeks
Unit 8	Plant Systems	2 weeks
Unit 9	Food Products & Processing	2 weeks
Unit 10	Natural Resource Systems	2 weeks

Unit 11	Safety & Ag. Mechanics	2 weeks
Unit 12	Food Insecurity	2 weeks

*The timeline is tentative and subject to change.*

## Grading Breakdown

Major assignments are those that allow you to demonstrate mastery of the course objectives. Minor assignments include skill checks, quizzes, homework, and other short assessments that contribute to your overall understanding of the course material.

Category	Percentage
Major Assignments (Tests, Projects)	60%
Minor Assignments (Quizzes / Skills Checks)	40%
Semester Exam / Project	15%

Grade Scale: A = 90–100 | B = 80–89 | C = 70–79 | F = < 70

Semester grades include a grade for each of the three six-week periods and an exam or project that is weighted 15% of the overall semester grade.

## Classroom Expectations

- Be on time, prepared, and respectful
- Follow safety protocols (PPE, tools, etc.)
- Use tech when instructed
- Ask questions and engage actively

## **Attendance & Participation**

Attendance is mandatory. You must:

- Attend scheduled classes and labs
  - Make up missed work with 1 school day allowed for each excused absence
- 

## **Late Work & Make-Up Policy**

- Students are allowed one day of make-up time for each day of absence
  - Late assignment penalties:
    - 1 School Day Late- Maximum Grade of 90
    - 2 School Days Late- Maximum grade of 80
    - 3-5 School Days Late- Maximum grade of 70
  - Missed assessments must be rescheduled
- 

## **Academic Integrity**

Cheating or plagiarism is not tolerated. First offense may result in a zero and parent contact. Further violations follow district policy.

---

## **Industry-Based Certifications**

This course aligns with—and prepares students for—the following credentials:

**Certifications in either the plant science or animal science pathway.**

Earning credentials enhances employability and may qualify for dual credit or advanced placement.

---

## **Career & Technical Student Organization (CTSO) Involvement**

Students are encouraged to participate in:

- **FFA** – SAEs, LDEs, CDEs & BBQ team
    - *Description:* FFA is a dynamic student-led leadership development organization for students of agricultural education. The FFA makes a positive difference in the lives of students by developing their potential for premier leadership, personal growth, and career success through agricultural education.
    - *Activities:* Chapter meetings, various optional projects involving livestock and many opportunities to compete in a variety of events at the district, area, state and national level.
    - *Requirements:* Attend & participate in at least 2 events per semester
- 

## **Safety & Equipment Use**

- Always follow safety instructions and wear required PPE
  - Report damaged tools/equipment immediately
  - Violation of safety protocols may result in removal from lab and disciplinary action
- 

## **Parent/Guardian Communication**

- Progress reports are sent every 3 weeks if the grade is below 70.
- Grades available in Skyward

- 
- Please email or call with questions or concerns
- 

## **Acknowledgment of Understanding**

Please return this signed page by [Date].

**Student Name:** \_\_\_\_\_ **Signature:** \_\_\_\_\_

**Guardian Name:** \_\_\_\_\_ **Signature:** \_\_\_\_\_

**Preferred Contact (Email/Phone):** \_\_\_\_\_