

# AGI - Fundamentals of Agriscience

2020 -----

*Mrs. Heald*

----- 2021

## communication

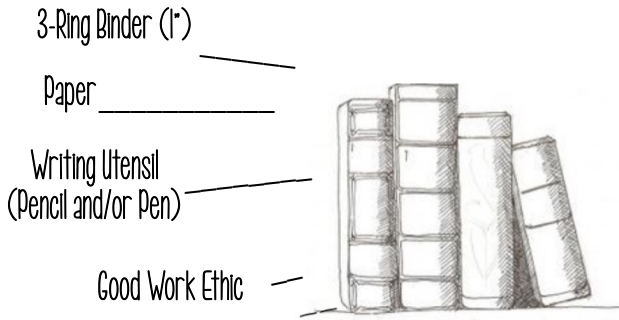
with the teacher

- 1 allison\_heald@ecboe.org
- 2 Remind app chat
- 3 (256) 442-2172 ext. 13111

*Remind Alerts*



## class materials



## class rules

- 1 Learning to Do...students are expected to participate in all school activities.
- 2 Doing to Learn...students are required to be prepared for all class activities. This is not limited to having a pencil and/or paper.
- 3 Earning to Live...in this classroom everything is earned. This includes grades, privileges, and respect.
- 4 Living to Serve...students are expected to respect their fellow classmates and display the characteristics of a leader.

## Grades (Point Values)

30	20	20	20	10
Tests/Projects	Quizzes	SAE (Monthly)	Daily Grade (Classroom Assignments)	Hands-On Participation

## class fee/ffa

Each student is required to pay a class fee of \$30. \$18 of this fee will be used to purchase supplies for agricultural mechanics and horticulture projects. If students desire to build large projects that they will take home for personal use, students will also be required to purchase their own supplies for those types of projects. To cover FFA dues for the National, State, and District levels, students need only pay \$12. For this reason, \$12 will be pulled from the \$30 class fee for 2020 - 2021 Affiliate FFA membership dues. The \$30 fee is due by the end of the third week of school and can be paid online.

*facebook*

Southside FFA  
Feel free to follow our chapter account to view announcements, updates,

*pre-reqs*

None

# instructional delivery plan

All levels of Agriscience will be delivered via a variety of instructional methods including, but not limited to: lecture, research, project-based learning, and lab experiences..

# course goals

Upon completion of the Fundamentals of Agriscience course, students will be able to:

1. Incorporate safety procedures in handling, operating, and maintaining tools and machinery; handling materials; utilizing personal protective equipment; maintaining a safe work area; and handling hazardous materials and forces.
2. Demonstrate effective workplace and employability skills, including communication, awareness of diversity, positive work ethic, problem-solving, time management, and teamwork.
3. Explore the range of careers available in the field and investigate their educational requirements and demonstrate job-seeking skills including resume-writing and interviewing.
4. Demonstrate digital literacy by using digital and electronic tools appropriately, safely, and ethically.
5. Participate in a Career and Technical Student Organization (CTSO) to increase knowledge and skills and to enhance leadership and teamwork.
6. Participate in Supervised Agricultural Experiences and/or work-based, experiential, and service learning.

# credentials offered

1. NCCER
2. BQA

# class description

Fundamentals of Agriscience is a one-credit course that provides students with a fundamental overview of the Agriculture, Food and Natural Resources cluster, which contains five pathways—Power, Structure, and Technical Systems; Environmental and Natural Resources Systems; Animal Systems; Plant Systems; and Agribusiness Systems. Students are involved in classroom and laboratory activities in each of the five pathway areas. The emphasis for Fundamentals of Agriscience is based around the NCCER Core Curriculum including basic safety, construction math, hand tools, power tools, construction drawings, basic rigging, communication skills, employability skills, and materials handling.

Content standards for this course are not intended to serve as the entire curriculum. Teachers are encouraged to expand the curriculum beyond the limits of these content standards to accommodate specific community interests and utilize local resources.

Fundamentals of Agriscience is a part of four courses that comprise the General Agriscience Program. This course should be offered in series along with Intermediate Agriscience, Advanced Agriscience, and Applied Agricultural Mechanics. It is strongly encouraged that Fundamentals of Agriscience be a required pre-requisite for the other courses in the program.

Career and technical student organizations are integral, co-curricular components of each career and technical education course. These organizations serve as a means to enhance classroom instruction while helping students develop leadership abilities, expand workplace-readiness skills, and broaden opportunities for personal and professional growth.

# essential questions

1. What is the impact of agriculture?
2. What technology applications are used in agriscience?
3. What is agribusiness leadership?
4. What is environmental science?
5. What is plant science?
6. What is animal science?
7. What industrial agricultural technology is most important in today's workforce?

# embedded anchor statements

Embedded numeracy assignments are designed to improve student mathematical skills in a Project-Based Learning environment through technical related activities that prepare students for successful transition into a high demand – high wage occupation in the 21<sup>st</sup> century workforce.

Embedded literacy assignments are designed to improve the reading, writing, and comprehension skills in a Project-Based Learning environment through technical related activities that prepare students for a successful transition into a high demand – high wage occupation in the 21<sup>st</sup> century workforce.

# embedded numeracy assignment

Agriscience students will be participating in an in-shop bed build for our local Sleep in Heavenly Peace chapter. Building these sets of bunk beds requires numeracy skills in the form of measuring, working with numbers to perform calculations for a bill of materials, reading plans, and understanding basic geometry. Students will calculate their needed materials for the number of bunk beds that they wish to build, place an order with our local hardware store, sort materials based on width, length, and thickness, correctly measure lumber, make accurate cuts on the miter saw, using jigs to notate where holes will be drilled with both the hand drill and drill press, correctly select the bit size needed for specific jobs, and assemble the head/foot boards and bed rails according to the provided plans from Sleep in Heavenly Peace.

# embedded literacy assignment

Agriscience students will work to improve upon their literacy skills as they continually utilize our Supervised Agricultural Experience tracker, the AET, to log journal entries for each SAE-related experience that they undertake throughout their time in our program. Students will be using the "Journal" tool to add new project and class activities throughout the year. To assist them with improving upon their reading skills, students will be required to explore and add skill areas to each entry. These skill areas provide detailed descriptions as to which skills best pertain to the work that the student has performed. Once a skill area(s) has been selected, students will then work to improve upon their writing skills by providing a detailed description of the activities that they have performed in relation to their Supervised Agricultural Experience hours.

# food and drink policy

Food and drink will not be permitted in any area of the agri-science department unless during assigned break times.

Students will be able to access the water fountain located in the lobby, but cannot bring any cups, bottles, or snacks into the learning areas.



## google classroom

Our AG1 classes will have access to a Google Classroom account which is unique to the AG1 curriculum and class events. You may join the classroom by logging into your Google Classroom account and entering the join code: **pwc4ffc**

We will also have a chapter-wide FFA Google Classroom account which can be joined by entering the join code: **458ziqp**

# the aet and sae's

Each student is required to create and maintain a Supervised Agricultural Experience. We will use a free online program called The Agricultural Experience Tracker to create these projects, to log required hours and photos, and to upload and manage any necessary record keeping. Students will be required to log at least (5) hours and (2) photos in AET per month. SAE planning will be done with Mrs. Heald and will allow for the selection of a SAE topic that best works with your interests and schedule. Good selection and maintenance of your SAE can open up opportunities for you to

compete for proficiency awards in nearly 50 areas. These awards provide recognition to members that are exploring and becoming established in agricultural career pathways.



# policy for absences & grades

Weekly and daily work will be updated weekly (assignments, participation, and quizzes). Please check grades regularly and feel free to ask me any questions that you might have about a particular grade.

If you are absent, you are responsible for completing your make-up work (three days for make-up for each day absent if absence is excused).

All make-up work will be placed in your classes absent folder and your name will be written on any work you missed. It is your responsibility to ask for help on making up any classwork/participation assignments, and/or to meet with Mrs. Heald to make up any tests, quizzes or papers.

If you know you are going to be absent beforehand, you should ask Mrs. Heald for your make-up work before the absence.

This can be done before or after school or via e-mail.



## electronic devices

Electronic devices should be **kept out of sight at all times** unless they are necessary for a portion of the lesson. Cell phones should be stored in the classroom cell phone caddy until they are needed for class-related activities.

First offense: Student will turn the phone into Mrs. Heald until the end of class.

Second offense: Student will turn the phone into the Mrs. Heald until the end of school day.

Third offense: Phone will be turned into the front office and parents will have to pick up the device from the office at their earliest convenience.