2018-2019 Plant and Animal Science Syllabus

Teacher: Mrs. Gina R. Neff
Room: 329
Prep/Conference: 1st period
Office Hours: Before/after school, lunch, prep
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http://www.northfork.k12.oh.us- High School, Staff, Gina Neff

Course Description:

Students will apply knowledge of animal and plant science to the agriculture industry. They will be introduced to the value of production animals relative to the agricultural marketplace. Students will engage in animal classification and selection, body systems, along with animal welfare and behavior in relation to the production of animals. Students will learn principles of plant anatomy and physiology, and the role of nutrition, deficiencies and growing environment on plant production. Throughout the course, business principles and professional skills will be examined. When joining the course students will also become members of the National, State, and local FFA chapter. Students are required to have a Supervised Agricultural Experience.
Course fee: $20 (paid as part of all course fees)
FFA Dues: $18 (paid to Utica High School, given to Mrs. Neff)

Course Organization

This is a student driven course. Students will experience independent learning through a variety of activities, projects, and problems. There will be minimal lecture time during class. Students will rely on using their iPads for research based activities and lab work. There will also be outside of class learning opportunities through FFA (student organization) and SAE.

Course Objectives

1. Ag, food, & natural resources systems produce the food, fiber, & fuel that are essential to daily life as well as contribute to the nation's economic wealth.
2. Individuals who pursue a program of study in Ag education will benefit from leadership development, personal growth, & career exploration.
3. Ag is a science that contributes to the development, improvement, & sustainability of living things.
4. Ag education establishes a relevant setting for the application of mathematical practices & principles.

5. Effective interpersonal communication skills facilitate group processes & aid in solving complex problems & the achievement of common goals.
6. Reading & writing interpretation skills are necessary for educational & professional development.
7. Safety is an attitude of personal responsibility that must be practiced in the Ag classroom, laboratory, shop, greenhouse, & facilities.
8. Inquiry activities are important in the practice of scientific processes & in the world of research.
9. The use of technology & computer applications is critical to modern Ag practices.
10. Consideration of the ethical, environmental, social, & economic impacts of Ag practices is essential to be a responsible, involved citizen.

Text and Required Supplies

1. iPad
2. Paper/pen and pencil
3. Laboratory Notebook and 3 prong folder
4. Course Fee payment ($20-part of school fees) and FFA Dues payment ($18-cash or check, given to Mrs. Neff)

Grading Policy

Students will be graded on the class and laboratory grade, SAEs and FFA. . No grades will be weighted and will follow the high school grading scale.

90-100 =A
80-89 =B
70-79 =C
60-69 =D
0-59 =F

Please keep in mind that grades are EARNED by you and are not given.

Late work: If work is not turned in by the due date, students will lose 10% each day it is not turned in. If a student habitually does not turn work in or work is late, they will receive an after school intervention program or receive a lunch detention.

Make Up work (professional absence, 4 nonprofessional days per 9 weeks or field trips): For each day that you are absent, you will have 1 day to complete the work. On your 5th non-professional day in a 9 weeks, you will receive a 0.

Remember you CHOSE to take my class, so do the work when assigned.

Classroom & Laboratory Grade

This will include any quizzes, tests, activities, problems, projects, notebook checks, labs, peer grades, reports, etc.

Supervised Agricultural Experience Program (SAEs)

One project is required as part of the SAE program each year. These projects can include home improvement projects, job placement, ownership projects, exploratory projects or agriscience research. Each nine weeks a grade will be given based on SAE records.

More information about SAE's and how to develop them will be given during class. This will be worth 50 points each 9 weeks.

Leadership Involvement – FFA

FFA is a vital part of the agricultural education program. For you to earn your FFA grade, you must participate in 1 activity during the nine weeks.
FFA Activities can be found in the classroom calendar or the AET Calendar. Refer to the FFA handbook for more information. This will be worth 50 points each 9 weeks.

FFA Expectations

There are many opportunities for students to be involved during the year in FFA. Students should have no problem participating in 1 activity per 9 weeks. Think of the FFA like a buffet- your enrollment in the agricultural education classes is the plate, it is up to you to fill your plate. Go to the buffet as many times as possible and fill your plate as high as possible. Members who chose to participate in more than the minimum will be recognized with a 1-2-3-4 or 5 Star Rating.

FFA Fundraising

In order to fully operate, the FFA must raise money through fundraisers scheduled throughout the year. The main fundraiser that is being planned is: the traditional citrus sale October-December and a Strawberry Sale in February. We will assist with FFA Alumni Fundraisers. Other sales will be added if necessary. Money raised through these fundraisers supports attendance at activities and events throughout the year.

FFA membership

You must pay FFA dues ($18 for the school year). If dues are not paid, this limits your involvement in FFA activities and events. Projects may be withheld as well. Any money earned through projects or fundraisers will be withheld.

Parent Member Banquet (MANDATORY)

Will be held April 18th, 2019 in the high school cafeteria . All students must be dressed appropriately (no jeans, dress up for an interview) and if available, wear official dress. You may purchase the FFA official jacket through the school. This is a MANDATORY event. *All students will be recognized.*

Class Rules:

Students are to follow all rules and policies set by Utica High School and the Northfork School District. In addition to those rules, the following rules apply to my class.

LEARNING TO DO

Students are expected to participate in class activities, projects, and problems.

DOING TO LEARN

Students are required to be prepared for all class activities. Have your notebook, iPad, pencil/pen ready for the day!

EARNING TO LIVE

Everything is earned- this includes grades, privileges, and respect.

LIVING TO SERVE

Students are expected to respect their fellow classmates, classroom supplies and display characteristics of a leader.

CELL PHONE POLICY: Cells phone are not to be used during the class. Students have access to a school issued iPad, which will be utilized. Students cell phones will be stored.

If the class rules/school rules are broken, the following consequences will be given. These are in no particular order, the consequence will depend upon the action of the student.

1. Call Home
2. Sent to the hallway
3. Conference between teacher and student
4. Sent to the office
5. Lunch detention

Course Topics

Lesson	Title	Days
All about those animals		
Unit 1: Animal Care & Management		
Lesson 1.1	Animal Care	14
Unit 2: Soils		
Lesson 2.1	Understanding Soil Properties	12
Lesson 2.2	Soil Chemistry	8
Unit 3: Animal Behavior		
Lesson 3.1	Animal Welfare	2
Lesson 3.2	Animal Behavior & Communication	8
Unit 4: Animal Nutrition		
Lesson 4.1	Feed Stuffs& Nutritional Roles	5
Lesson 4.2	Deficiency& Toxicity of feeds	4
Unit 5: Animal Body Systems		
Lesson 5.1	Putting the puzzle together	6
Lesson 5.2	Where do babies come from?	4
Unit 6: Animal Health & Diseases		
Lesson 6.1	Popular Pathogens	5
Lesson 6.2	Diseased	5
Lesson 6.3	Bugged	4
Unit 7: Population Management		
Lesson 7.1	Animal Phenotype & Selection	5
Now plants		
Unit 8: Water Quality		
Lesson 8.1	Water Quality	11
Unit 9: Plant Growth & Management		
Lesson 9.1	Sorting out Plants	3
Lesson 9.2	Anatomy of Plants	10
Lesson 9.3	Plants & Light	7
Lesson 9.4	All Wet	5

Lesson 9.5	Diving into Diseases	3
Unit 10: Plant Nutrition		
Lesson 10.1	Plant Food	3
Unit 11: Plant Reproduction		
Lesson 11.1	Flower Power	7
Lesson 11.2	Pollination & Dispersion	6
Unit 12: Pest Management		
Lesson 6.1	Pesky Bugs & Plants	10
Unit 13: Harvest		
Lesson 13.1	Tools of Plant Production	6