

Plant Science

Course Number: 01.461.00

Prerequisite: none

Instructor: Mr. Reaves

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Room: 712

Planning: 3rd period

Course Description: This course is designed as an introduction for the Horticulture-Plant Science Pathway Program. The course introduces the major concepts of plant and horticulture science. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities.

Units of Instruction: Employability Skills; Work Safety in Agriculture Lab and Work Sites; FFA leadership and the Supervised Agricultural Experience Program (SAEP); Plant Parts, Growth, and Reproduction; Plant Growth and Development; Sexual Reproduction In Plants; Asexual Reproduction In Plants; Basic Principles and Uses of Soil and Plant Growth Media; Identifying Macro, Secondary, and Micro plant Nutrients; Plant Fertilizers and Fertilizing Methods; Damage Caused by Insects, Weeds, and Diseases; Use of Various Plant Growing Containers; Plant Irrigation Methods; Plant Science and Horticulture Careers.

Course Standards:

Standard	Description
AFNR-GHPS-1	Demonstrate employability skills required by business and industry
AFNR-GHPS-2	Learn to work safely in the agricultural lab and work sites, demonstrates selected competencies in leadership through the FFA and agricultural industry organizations, and develop plans for a Supervised Agricultural Experience Program (SAEP)..
AFNR-GHPS-3	Identify plant parts, growth, and reproductive processes.
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AFNR-GHPS-5	Determine factors that affect plant development and growth..
AFNR-GHPS-6	Discuss the importance of asexual reproduction in plants.
AFNR-GHPS-7	Determine the basic principles and uses of soil and plant growth media.
AFNR-GHPS-8	Identify macro, secondary, and micro plant nutrients.
AFNR-GHPS-9	Explore the use of plant fertilizers and proper fertilizing methods.
AFNR-GHPS-10	Evaluate the damage caused to plants by insects, weeds,diseases, and physiological disorders.
AFNR-GHPS-11	Compare and contrast the use of various plant growth containers.
AFNR-GHPS-12	Describe various plant irrigation methods.
AFNR-GHPS-13	Explore plant science and horticulture careers and opportunities.

Student Materials: Each student is required to have a three-ring notebook with loose-leaf paper, a composition book, and a blue or black ink pen or a pencil. These materials should be brought to class DAILY. A small pack of colored pencils or markers, a highlighter, and a basic calculator will be helpful, but there will be a class set provided so students are not required to purchase their own.

All students are asked to bring \$10 to cover the expense of classroom supplies. This will cover individual use items for the course for the year.

Labs: Dress appropriately for lab situations (no flip flops, clothes that can't get dirty, etc). I will notify of labs at least one day in advance either in class or through Remind 101 so that you may be prepared. Failure to participate in labs will result in a '0' for the lab activity.

Grades will be weighted as follows:

25% Classwork... daily journals, daily grades (worksheets/handouts), minor presentations, minor SAE grades (Teacher Approval Form, SAE Plan, Progress Checks), Participation, Weekly Notebook Checks

40% Tests/Quizzes... unit tests, daily quizzes

35% Projects/Laboratories... major projects & presentations, laboratories & performance assessments, major SAE grades (Proficiency Application, Presentation, folder check)

Supervised Agricultural Experience (SAE): The Supervised Agricultural Experience (SAE) is a project that is state mandated and carried out through the nation. This serves as an opportunity for the student to venture on his/her passion in learning something career related that sparks their personal interests. Each student will develop and plan an SAE project in which they will spend at least 30 hours outside of class completing. We will discuss the SAE in detail during the first few weeks of the school year. Many examples/ideas will be shared during this time. Check point grades will be taken periodically throughout this course to ensure projects are continuously and adequately completed. This is a large portion of the student's grade and will require some parent involvement and supervision. Data is the keyword. This project's objective is to teach students how to keep information and present it in an appropriate manner. SAE paperwork will be made available for you to reference.

- VISIT – The instructor will be available ANY time to come and assist you with your project. Students must sign-up for visitation appointments. Agreement Forms should be signed by the parent and student. The instructor will make visits through the year.
- RECORDS – These are to be kept on your projects and will be graded. You must include a minimum of 6 working (student is actively working on the experience) photographs of project work.
- CONTENT – You may choose from a wide array of agriculture experiences for the SAE. However, the teacher and a parent must also approve the projects.
- PRESENTATION – At the end of the semester the student will be required to give a presentation on his/her SAE project.

FFA: Agriculture Education's student organization is a co-curricular component of Basic Ag. Students will review the history of FFA and the activities, awards, and benefits of being an FFA member. Students are encouraged to participate in all three areas of the Agriculture Education program including classroom instruction, SAE, and FFA membership. Students participating in FFA career development events must be a current member of the FFA chapter. Active participation is strongly encourage to get the full output of the course.

Professionalism: Students are to come to class every day to work for the entire time just as if the classroom was a job location. Professional development would include among other things an attitude of teamwork, punctuality, dress appropriate to the work environment, courtesy and respectful language. This portion will be graded in the class participation section of your final grade.

Make-up Work: Work missed when absent is to be made up within 5 days if the absence is excused. After an absence the student is to ask what was missed and complete the work. Students may schedule tutoring sessions by appointment before or after school when necessary.

Remind 101: Reminders for class and FFA will be sent out on a regular basis to benefit both students and parents. On a mobile phone, text the message @2b98a2 to the number 81010 or (229) 299-8325. To download the mobile app, open your web browser and go to rmd.at/2b98a2 and follow the instructions found there. On a desktop computer, go to rmd.at/2b98a2 to sign up for email notifications.

Disclaimer: The content of this syllabus is subject to change.

My signature on the below indicates that I have read this syllabus.

Student's Printed Name: _____

Student's Signature: _____ Date: _____

Parent's Printed Name: _____

Parent's Contact Information: Cell: _____ Home: _____

Work: _____ Email: _____

Parent's Signature: _____ Date: _____