



Steeleville High School Agriculture Department
Horticulture



5th

Course Syllabus and Outline

Instructor: Mrs. McKinnies

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Pre Requisite: none

Level: 10, 11, 12

Credit: 1 Credit

Horticulture is a course that examines the science of plants, and growing plants. Horticulture prepares students for careers and continuing education in the growing field of plant production and greenhouse management. This course is designed for upper level students and/or students who have complete Introduction to the Agricultural Industry or Environmental Science. This course is one year in length and upon successful completion of this course with a D or higher, 1 credit will be earned.

Course Description

Horticulture is a science course that is designed to develop knowledge and skills in the following areas: plant identification; floral design; using soil and other plant growing media; propagating horticultural plants; basics of growing horticultural in greenhouse and nursery settings; constructing, maintaining, and using plant-growing structures; proper design and installation of landscapes, turf grass care and management. Agribusiness units will cover operating a horticultural business, pricing work, advertising, and sales. Improving computer and workplace skills will be a focus. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts.

Course Objectives/Goals

- Students will learn about the FFA organization and develop academic and leadership skills through participation in FFA events.
- Students will learn about the horticulture industry.
- Students will explore career areas in the horticulture industry.
- Students will learn to identify plants using the system of taxonomy
- Students will understand and explain plant anatomy.
- Students will construct greenhouse models and explain the functionality.
- Students will learn and explain plant physiology.
- Students will design and implement landscape designs.
- Students will learn the basics to flower design and will arrange flowers.

Student Expectations

It is important that students in this class keep an open mind and respect the differences in student ability, backgrounds and beliefs. All students are expected to come to class on time, be prepared, and participate on a daily basis. Students will be expected to follow all rules listed and described in the Steeleville High School Student Handbook. It is expected that students wear appropriate attire (safety glasses, closed-toe shoes, protective clothing, etc.) during shop work. All students enrolled in Introduction to the Agricultural Industry will be required to keep an updated SAE (Supervised Agricultural Experience). Students will be expected to arrive daily with a writing utensil, notepad, and calculator.

Online Learning Expectations for Students Choosing to Remote Learn

- Students are required to sign in daily and participate in classes from 8:13 – 2:30 p.m.
- Teachers will be engaging with in-person students as well as remote learners throughout the day.
- Daily/hourly attendance will be taken and if a student does not sign in and participate he/she will be counted absent and fall under attendance guidelines as outlined in the handbook.
- Parents must be available to communicate with administration and teachers via email or telephone; this is on an as-needed basis.
- Teachers are expected to use Google Meets to livestream their classes with the camera not facing students

Students Quarantined

- Students will participate in remote learning if medically able
- Paper copies will be sent home as needed

Teaching Methods

Introduction to the Agricultural Industry is a course taught through a wide variety of teaching methods, but with a dominant focus through hands-on learning. Students will learn through class lecture, small group discussion, class debate, laboratory exercises, video, readings, independent study, games, guest speakers, and both individual and group projects.

Assessments

Students will be assessed through regular completion of homework, projects, class participation, labs, and Supervised Agriculture Experiences. Quizzes will assess students throughout each unit and a test will be given upon completion of each unit.

Plant ID quizzes will be taken every two weeks. Students can re-take each plant ID quiz as many times as they choose, keeping the highest grade earned. However, re-takes must be done prior to the class receiving the plant ID quiz (i.e. there is a 2 week window to redo quizzes).

Grading Policy

The school's standard grading scale will be used in the class

A	89.5% - 100%	B	79.5 – 89.4%	C	69.5% - 79.4%
D	59.5% - 69.4%				

Missed/Late Work

Late homework assignments will automatically be dropped 25%, unless prior arrangements have been made or the missed assignment was due to an excused absence. Missed quizzes or tests due to an unexcused absence will result in a zero. Make-up dates will be allowed for all quizzes and tests missed due to an excused absence.

Academic Honesty

Academic integrity is a vital component for individual success within Steeleville's Agriculture Department. Plagiarism and cheating by any student will result in a zero

for the grade of the assignment and will follow punishment described in the student handbook.

Text

A variety of text material will be given in this course. The primary text material will be MyCaert Agriculture Education State Curriculum readings. Text material will also include, but is not limited to, various textbook chapters, newspaper clippings, pamphlets, Internet articles, news articles, and short narrative briefs.

Basic Horticulture Science	
Introduction to Basic Horticultural Science	
	Course Syllabus, Rules, and Procedures
Introduction to Nation FFA Organization	
Module 1	National FFA Organization
Module 2	Illinois FFA Association
Module 3	Steeleville FFA Chapter
Exploring the Horticulture Industry (1st quarter)	
Module 4	Understanding Horticulture
Module 5	Determining the Importance of the Horticulture Industry
Module 6	Exploring Career Opportunities
PROJECT	Mums
Understanding Plant Anatomy (2nd Quarter)	
Module 7	Classifying Ornamental Plants
Module 8	Understanding Root Anatomy
Module 9	Understanding Stem Anatomy
Module 10	Understanding Leaf Anatomy & Morphology
Module 11	Understanding Flower Anatomy
Greenhouse Crop Production (3rd quarter)	
Module 12	Exploring Greenhouse Structures
Module 13	Controlling the Greenhouse Climate
Module 14	Using Automated Systems in the Greenhouse
Module 15	Managing the Greenhouse Business
PROJECT	-Poinsettias ?
Understanding Plant Physiology (3rd quarter)	
Module 16	Understanding Light, Temperature, Air, and Water
Module 17	Understanding Plant Growth Regulators
PROJECT	Starter Plugs for Plant Sale
Integrated Pest Management	
Module 18	Understanding Integrated Pest Management
Module 19	Determining the Kinds of Pests
Residential Landscape Design (4th quarter)	
Module 20	Analyzing the Residential Landscape
Module 21	Designing the Landscape Area
Module 22	Beginning the Design Process
Module 23	Choosing Plants for the Landscape

Module 24	Applying the Principles of Art to the Landscape
Landscape Maintenance (Year around)	
Module 25	Pruning Landscape Plants
Module 26	Installing a Landscape
PROJECT	School Project/ Plant Sale
Floral Design (Christmas and Mother's Day)	
Module 27	Basics of Floral Design
Module 28	Creating a Floral Arrangement
SAE- Continual All Year	
Plant Identification- Continual All Year	