

CENTRAL HIGH SCHOOL

Basic Horticultural Science

Bill Bretzman

COURSE SYLLABUS

Course Description:

This course is designed to develop knowledge and skills in the following areas: using soil and other plant growing media; identifying horticultural plants; propagating horticultural plants; basics of growing horticultural plants in greenhouse and nursery settings; constructing, maintaining, and using plant-growing structures; operating, repairing and maintaining equipment used in the horticultural field; identifying landscape plants, designing landscape plans, landscape construction techniques, and installing landscape plants. Also included are nursery production, turf grass production, and maintenance of existing landscapes. Agribusiness units will cover calculating prices for work, managing a horticultural business, advertising, and sales. Students will have the opportunity to be FFA members and participate in FFA activities.

Course Objectives:

Upon the successful completion of this course, students will be able to:

- Identify all major horticulture plants.
- Understand plant anatomy.
- Define the concepts of plant reproduction.
- Understand greenhouse production and bedding plant production.
- Identify major plant nutrients and their chemical analysis.
- Identify greenhouse pests and develop an IPM plan
- Produce herbs and vegetables in an Aquaculture system
- Experience the FFA Organization
- Develop an SAE program
- Present the FFA Creed

Required Class Materials:

Paper

Binder

Calculator (recommended)

Writing Utensil

Flash drive or storage device

Text: None

Course Outline:

1st semester:

Understanding the Horticulture Industry
Plant Anatomy and Physiology
FFA Orientation/SAE
Plant Propagation
Growing Media, Nutrients, and Fertilizers
Public Speaking/FFA Creed
Plant Identification

2nd Semester:

Houseplants
Greenhouse Production
Bedding Plant Production
Aquaculture
Integrated Pest Management
Plant Identification
SAE

Major Assignments:

Presentation of the FFA Creed. (Jan.)

Develop an individualized Supervised Agriculture Experience. (December and continue through May)

Complete 2 FFA activities per semester.

Work a minimum of 4 hours in FFA CO-OP 1st semester and 4 hours at the Spring Plant Sale 2nd semester.

Students will be required to participate in one of the following Horticulture CDE's: Section 10 (April 18th) Parkland (TBA) and/or JJC (TBA). This will be equal to ½ of the semester Exam.

Grading:

Skyward Name	Category	Weight
Final Exam	1 st Semester- ½ Coop hrs. and ½ Assessment 2 nd Semester- ½ Plant Sale hrs. and ½ Horticulture CDE	15%
In-Class work	Assignments/Labs/Reports/Participation/Quizzes/Tests	70%
Homework	SAE & Recordkeeping	10%
Participation	FFA Participation	5%

Class Policies & Procedures:

1. Students will be in their seat on time, with writing utensils, 3 ring notebooks, due assignments and any other materials needed for class that day.

2. Students will conduct themselves in a manner that allows everyone the right to a good learning environment.
3. Students shall leave materials and objects in the classroom and/or lab alone unless instructed or given permission to use them.
4. Students will participate in classroom and/or lab instruction and activities at all times.
5. Students will be dismissed from class when all materials are returned to proper storage area and teacher verbally dismisses them.
6. Students will confer with teacher if they feel all possible tasks have been completed.
7. Students' heads will be in an upright attentive position without the support of their arms and hands.
8. Students will contact me the day they return from an absence, to update student on missed classroom/lab/greenhouse activities.

Miscellaneous: FFA is an integral role of agriculture education. Students are automatically enrolled in the FFA. Students are strongly encouraged to participate in these activities.

Students must work outside of the classroom hours at the department Central FFA COOP during the 1st semester. Student hours will be worked during regular coop hours (Tuesday 3:30-5:30 pm and Saturday 8:00 - 11:30 am). During 2nd semester at the COOP Plant, the last week in April through the 1st two weeks in May. These minimum hours required/semester will be reflected as 50% of the semester exam.

Instructor Contact:

Email: wbretzman@cusd4.org

Phone: (815) 694-2321 Ext. 2113