Horticulture

**Teacher Contact Information**

*Teacher:* Mr. Reinders

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*Available Office Hours:* Block 2 (10:15 a.m. – 11:42 a.m.),

**Course Overview**

This one semester course involves learning about many aspects of the horticulture industry, beginning from seed germination and ranging to include the marketing and selling of mature annual plants. We start from the ground up literally learning about soil and how it affects plant growth. Time will be provided for developing lifelong skills in the area of plant growth and maintenance. About half the class time will be spent in the school greenhouse or outside. If you do not mind getting a bit dirty from time to time, and you enjoy plants, this course is for you. If you enjoy being outdoors then you will enjoy landscaping. Beautification of grounds and indoor landscaping will be covered in this class. The second half of the semester is spent outdoors applying landscape techniques by doing actual landscapes in the Village of Edgar. Students will use Landscape Pro CAD software.

**Course Units**

* Soil
* Plant Parts and Functions
* Environmental Factors and Conditions of Plant Growth
* Plant Propagation
* Media Use and Function
* Annual/House Plant Identification and Taxonomy
* Integrated Pest Management
* Landscape Design
* Pruning and Maintaining Landscape Plants
* Landscape Plants Identification
* Landscape Installation

**Course Learning Targets:**

* I can identify the importance of soil.
* I can determine basic soil properties
* I can identify and discuss soil forming factors.
* I know how to differentiate between soil fertility and soil productivity.
* I can identify plant nutrients.
* I understand the basics of soil.
* I can differentiate between fertilizers and soil amendments.
* I can identify plant structures and functions.
* I can explain the process of reproduction in plants.
* I know how to recognize different plant structures.
* I know the terminology uses to identify plant structures and functions.
* I can identify plants using taxonomy.
* I can differentiate the differences in plant life cycles.
* I can identify factors that affect plant growth and development.
* I can evaluate the effects of plant growth regulators.
* I can discuss important plant processes during growth and development.
* I know the seed methods of plant propagation.
* I know division methods of plant propagation.
* I know the cutting method of plant propagation.
* I know the layering method of plant propagation.
* I know the grafting and budding method of plant propagation.
* I know how to control plant environment.
* I can use different kinds of materials used to grow plants in greenhouses.
* I understand the environmental factors that affect greenhouse management.
* I can identify the different materials that make up growing media.
* I know the different types of propagation associated with container grown plants.
* I know how to identify techniques used in plant classification.
* I can evaluate the plant naming system.
* I can identify different types of plants by common name and scientific name.
* I can identify a number of common pests.
* I know how to read a pesticide and herbicide label.
* I can list the methods of IPM (integrated pest management)
* I can identify pests associated with common plants and crops.
* I know how to analyze the characteristics associated with common pests of plants.
* I can identify plant pest characteristics, effects on plants, prevention methods, and treatment.
* I know the uses and types of prevention and treatment methods of plant pests.
* I know the benefits of well-designed landscapes.
* I can identify the principles of landscape design.
* I know the elements used in successful landscape design.
* I can conduct a site analysis and use it to create a landscape design.
* I know proper usage of 12 commonly used landscape tools.
* I can identify reasons for pruning.
* I know techniques for pruning different trees, shrubs, and hedges.

**Required Materials**

Make sure you bring all of the following materials with you to class everyday:

* Pencil
* Notebook/paper
* Folder
* Textbook

**Classroom Behavior**

* Be respectful
  + Treat others and school property with respect
  + No snacks– water in clear containers only
  + No hats worn in class
  + No tobacco products
* Be responsible
  + Safety Glasses must be on in the shop, must have appropriate clothing in shop
  + Students are expected to follow the rules in the Parent/Student Handbook in this classroom.
* Be Ready to Succeed
  + Have class materials ready to use, be in your chair when the tone sounds
  + Be ready to think–participate–learn!

**Late Work Policy**

* Any assignments that didn’t get in by the end of the unit, the most points they can get is 80% of the score they’ve earned.
* After the completion of the following unit, no assignment can be turned in for any points.

**Grading Policy**

This class will be evaluated based on total points. A variety of assessments will be scored, including, but not limited to:

**Plagiarism Policy**

Evidence of intentional plagiarism shall result in the student's receiving a grade of zero for the assignment in which the plagiarism occurs.

**Grading System**

A+ 99-100

A 93-98

A- 90-92

B+ 87-89

B 83-86

B- 80-82

C+ 77-79

C 73-76

C- 70-72

D+ 67-69

D 63-66

D- 60-62

F 59 or below

**Using Resource Time Productively**

Ideas of what to work on during resource time to help you in your agriculture classes.

* Work on your SAE
* Help with an FFA activity or contest
* Work on class projects
* Research an agriculture career
* Read agricultural publications

**Website**

Syllabus and course outline will be posted on class google page.