

Horticulture 1 Syllabus

Instructor Information

Mackinley Melby

Agriculture Teacher

mmelby@bcswan.net

Course Description

This course provides instruction on the broad field of horticulture emphasizing scientific and technical knowledge for a career in horticulture. Topics in this course include plant anatomy, plant growth and development, plant nutrition, media selection, basic plant identification, pest management, innovative gardening techniques, customer relations, career opportunities, and leadership development. Skills in biology, chemistry, and algebra are reinforced in this course. Work-based learning strategies appropriate for this course are agriscience projects, internships, and supervised agricultural experience. Supervised agricultural experience programs and FFA leadership activities are integral components of the course and provide many opportunities for practical application of instructional competencies.

Course Overview

Through this course students will learn:

- Career Opportunities and Leadership skills used in Horticulture
- Plant Anatomy and Physiology
- Factors related to plant growth and development
- The role of soils, nutrients, and fertilizers in plant growth
- How to plan a garden
- How to identify and manage pests

Supplies:

- Pens/Pencils
- Loose Leaf Paper/ 3 Ring Binder
- School-provided technology
- Clothes/shoes to be outside in

Assessment Types:

Horticulture will employ a variety of assessment strategies, including weekly evaluation, online lesson quizzes, printed quizzes, performance-based projects and lab assignments.

Grading – Will be broken into 2-9 week segments (40% 1st 9 weeks, 40% 2nd 9 weeks, 20% PBM)

Formative assessments: 30%

Summative assessments – 70%

Grading Scale

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

Missing and Late Assignments:

Assignments will be accepted for assignments until the end of the Unit. Assignments missed due to absences are due upon return to NBHS or within a number of days commensurate with the length of the absence. It will be the student's own responsibility to locate and complete missing assignments. See NBHS handbook policy for full details on absences and missing assignments.

Professional Behavior and Expectations:

Be Respectful

- talk only when it is your turn
- give opinions only when they are appropriate
- do not endanger other students
- No phones or other non school provided devices allowed

Be Responsible

- be prompt - to class and with due dates
- be prepared - paper, pencil, brain, educational electronics, usernames and passwords
- be active in your education – participate, avoid distractions, prepare in advance

Be Honest

- do your own work - it's the best way to train your brain
- do your best - how can you get better if your best is undiscovered?
- follow your interests - they guide you toward lifelong happiness!

1st 9 Weeks Topics

FFA
SAE
Parliamentary Procedure
Plant Parts

2nd 9 Weeks Topics

Plant Functions
Soil structure and function
Plant Propagation
Planning a Garden
Plant Pests and Diseases

Continue reading if you are enrolled in Honors Credit:

HONORS COURSE

Being an honors level course, students will engage in the rigorous integration of science, research, writing, and technical skills to complete the course projects beyond the standards of a regular level course. Students will explore course content and objectives through the use of the scientific process which will provide students the opportunity to implement learning concepts in real-world, problem based learning situations.

Honors Extension Assignments

This honors course extends the Standard Course of Study to a higher, more challenging level. Students will be assigned honors projects in addition to the activities in the Standard Course of Study.

Enriched or Accelerated Topics:

- FFA
- SAE
- Parliamentary Procedure
- Plant Parts
- Plant Functions
- Soil Structure/Functions
- Plant Propagation
- Planning/Designing a Garden

Students who decide to participate and engage in this course as an honors student will be expected to choose two provided activities from the given topics. One activity will be completed each nine weeks.

Honors Level Expectations:

Students enrolled in the Honor's Level Horticulture Course are required to do all of the mandatory assignments from both the standard course and the additional honor's activities. In addition to the Honors Assignments, students are responsible for all Competency Unit Objectives and activities as already assigned and outlined in the Standard Course Blueprint. This includes but is not limited to participation, content exercises, projects and assessments.

– It is the student's responsibility to manage a timeline of each Honors assessment in order to meet the target dates throughout the semester. No extensions will be given so complete the work in a timely manner as assigned.

– It is suggested that the student set aside time each week for the Honors level assignments and understand that they will need to work on it outside of class.

– **Students who have chosen the Honors Course path must follow through with the requirements of the course. Once a student is in the Honors Course he/she may not elect to opt out and switch to the standard course, hence it is important that the student understands the responsibility and the workload.**

Horticulture 1 Class Competencies and Objectives

<i>Aligned Credential or Certification:</i>		Work-Based Learning	All, Including Supervised Agricultural Experience	
ES # Obj. #	Unit Titles/Essential Standards and Objective Statements (The Learner will be able to:)	Course Weight	RBT Designation	Local Use
	Total Course Weight	100%		90
1.00	Apply leadership and durable skills.	12%	B3	11
1.01	Explain FFA opportunities available to students.	4%	B2	4
1.02	Implement durable employability skills.	4%	C3	4
1.03	Execute proper meeting management.	4%	C3	4
2.00	Apply work-based and experiential learning in horticulture.	12%	C3	11
2.01	Understand careers in the horticulture industry.	4%	B2	4
2.02	Execute a supervised agricultural experience (SAE).	8%	C3	7
3.00	Understand plant biology and growth factors.	8%	B2	7
3.01	Explain plant parts and their functions.	4%	B2	4
3.02	Explain factors that influence plant growth and development.	4%	B2	4
4.00	Apply knowledge of environmental conditions for plant growth.	20%	C3	18
4.01	Apply the process to identify environmental conditions needed for plant growth.	5%	C3	5
4.02	Apply the process to identify optimum soil and media for plant growth.	5%	C3	5
4.03	Apply the process to identify essential nutrients needed for plant growth.	5%	C3	5
4.04	Apply the process to identify integrated pest management practices.	5%	C3	5
5.00	Apply knowledge of common plants grown in North Carolina.	15%	C3	14
5.01	Summarize plant taxonomy.	5%	B3	5
5.02	Apply the process to identify common plants grown in North Carolina using plant identification practices.	10%	C3	9
6.00	Apply common plant propagation techniques.	16%	C3	14
6.01	Execute sexual plant propagation methods.	8%	C3	7
6.02	Execute asexual plant propagation methods.	8%	C3	7
7.00	Apply plant production in horticulture.	17%	C3	15
7.01	Compare garden, greenhouse, and nursery production practices.	7%	B2	6
7.02	Execute plant production practices.	10%	C3	9

Parent signature _____

Date _____

Student signature _____

Date _____