

Horticulture Syllabus

Course Description:

Horticulture is the science and management behind the cultivation, processing and sale of fruits, nuts, vegetables, ornamental plants and flowers. This introductory course will provide students with the basic foundation knowledge and skills needed to pursue a career in Horticulture. Students will gain an understanding of plant anatomy and physiology and will be able to directly relate these topics to management techniques and decisions. All aspects of plant propagation, growth, nutrient and environmental needs will also be addressed through practical lab experiences and field trips. Emphasis will be given to job opportunities as well as development of technical skills and procedures used by professionals in the greenhouse/nursery management, floriculture and landscape design fields.

Topics covered in this course will include

1. The significance of horticulture to Oregon's agriculture industry.
2. The qualifications for various careers on the horticultural career ladder.
3. The value of FFA membership and supervised agriculture experiences in preparing for a career in horticulture.
4. Important relationships between the environment and the horticulture industry.
5. Plant science with emphasis on plant structures and the physiological function of those structures.
6. The classification of plants
7. Soil materials and structure – specifically the types of soil in Oregon
8. Plant nutrients and fertilizer management
9. Various methods of both asexual and sexual plant propagation.
10. Principles and practices of biotechnology in relation to plant propagation
11. Managing the growth of plants
12. Identifying and managing plant pests and diseases.
13. Design styles of greenhouses.
14. The importance of environmental conditions, container type, growing media, irrigation and fertilizers on greenhouse crops
15. The layout of container and field nurseries.
16. Factors involved in the production of nursery crops.
17. Basic principles of floral design and landscape design
18. Basic principles of pomology and olericulture
19. Basic principles of irrigation systems

Class activities will include laboratory work, projects, guest speakers, visits to local greenhouses and nurseries, and field studies/practical experience on campus. Field trip attendance is mandatory – work completed during these trips cannot be made up.

Materials Needed:

- 1.5 inch or large binder with five manila dividers. See binder handout for further instructions
- working writing utensils including pens and pencils

Grading:

Trimester grades are dependent on:

60% tests, quizzes, projects and final exam

20% Assignments – both in class and homework

20% Lab and field activities

Letter grades will be determined by calculating of the percentage of points accumulated in each of the weighted categories above.

Homework Policy:

1. Students are expected to write down the daily homework assignment on their HW log in their binder.
2. Homework is due the day after it is assigned unless otherwise specified. Homework is only on time if it is presented when Ms. Dean checks/collects it.
3. **Homework is to be done individually**
4. Only completed homework done in **pen and on neat paper with clean edges** is accepted as on-time, full-credit HW – attempt every question/part of the HW – leave nothing blank.
5. **If you have not done your homework; please have an excuse note ready to be collected when HW is collected/checked off.**
6. Late homework is only accepted one day after the actual due date, late assignments only receive half credit (no credit if late assignments turned in incomplete)
7. If a student does not understand the HW they need to get help BEFORE the HW is due. Students can always email Ms. Dean in the evening and/or see her in the AM before school to get help.

Absence Policy:

1. At all costs, don't miss class. It is required that if you have to be absent, call your lab partner/friend in class, or contact Ms. Dean online prior to your return to get missed assignments (or to at least find out what you need to take care of when you get back!)
2. In the case of absence due to illness, family emergency etc. see Ms. Dean **the day you return**, to arrange for make up work, tests, etc. Make sure you check your absence work folder and the posted HW log to obtain missed information.
3. If you show up to school the same day you miss biology you need to see Ms. Dean **that same day**.
4. Do not count on being able to make-up labs because you missed class. Make-up lab work is difficult due to expiration of materials and lab supervision. Pop quizzes cannot be made up.
5. For pre-planned absences (field trips in other classes, retreats, sports/drama/band obligations, etc.) it is the student's responsibility to Ms. Dean **prior to being absent** to obtain make up work

Extra Credit Policy:

From time to time, some extra credit may be offered to those students who have turned in all homework assignments. In other words, extra credit can only be used to help boost low quiz/test scores....not to make up for missing assignments.

Test Correction Policy:

If a student fails a test or announced quiz, they have the option to speak with Ms. Dean at lunch or after school on the SAME DAY THE EXAM IS RETURNED and arrange to correct the failed exam. This option will only be available to those students who have submitted all HW and lab assignments. Failed exam scores may only be increased up to 70% of total points. The quality of correction will determine how many points will be added to the original score. This correction option may not be used on consecutive exams

Getting a hold of Ms. Dean:

phone message: 503-630-8515 x 2836

Email: deank@estacada.k12.or.us

Students can see me for help in Rm. 10 before school, after school, at lunch during my prep (5th) or by appointment. They can also access me online after s