

CUMBERLAND COUNTY COLLEGE

Course: OH 204: Greenhouse Management

Credits: 4

Prerequisites: RD 100, EN 060

Description: This course covers all the aspects of the greenhouse business including construction, heating, cooling, and ventilation modern greenhouse. Students learn how to produce and culture plants in a temperature-controlled environment and examine variables like humidity, light and nutrients. The course includes the business side of greenhouse management, including hiring, supervising employees, monitoring production, producing marketing materials and controlling inventory.

Learning Outcomes

At the completion of this course, students should be able to:

- Differentiate between a wholesale and retail greenhouse
- Identify career opportunities in the greenhouse industry
- Identify the variety of crops raised in commercial greenhouses along with their cultural requirements
- Develop a crop schedule for year-round commercial greenhouse production
- Research, design, and submit plans for a commercial greenhouse production facility, including costs and funding sources, as well as the needed equipment, supplies and infrastructure.

Topical Outline

- History of the Greenhouse Industry
- Greenhouse Construction
- Greenhouse Heating
- Greenhouse Cooling
- Environmental Controls
- Greenhouse Growing Media
- Media Pasteurization
- Watering and irrigation
- Fertilization
- Alternative Cropping Systems
- CO2 Fertilization
- Light and Temperature Influences

- Chemical Growth Regulation
- Insect Control
- Disease Control Business Management

Text: Nelson, Paul V. (2012). *Greenhouse Operation and Management*, 7th ed. Prentice Hall, Upper Saddle River, NJ

Student Assessment: Assessment may be accomplished through projects, portfolios, exams, presentations and/or papers.

Academic Integrity: Plagiarism is cheating. Plagiarism is presenting in written work, in public speaking, and in oral reports the ideas or exact words of someone else without proper documentation. Whether the act of plagiarism is deliberate or accidental [ignorance of the proper rules for handling material is no excuse], plagiarism is, indeed, a “criminal” offense. As such, a plagiarized paper or report automatically receives a grade of **ZERO** and the student may receive a grade of **F** for the semester at the discretion of the instructor.

Note: If you are having difficulty with work in this class tutoring is available through the Center for Academic & Student Success. If you think that you might have a learning disability, contact Project Assist at 856.691.8600 x 1282 for information on assistance that can be provided to eligible students.

Before Withdrawing From This Course

If a student experiences adverse circumstances while enrolled in this course and considers withdrawing, s/he should see an advisor (division or advisement center) **BEFORE** withdrawing from the class. A withdrawal may cause harmful repercussions to completion rate standards and overall GPA which can limit or eliminate future financial aid in addition to causing academic suspension.