Piedmont Technical College Course Syllabus

COURSE INFORMATION

Course Prefix/Number: HRT 130

Title: Greenhouse Production

Responsible Division: Industrial Division

Last Day to Withdraw from this Course: For the last date to withdraw from this course, consult the current *Student Calendar*.

Course Description:

For course, credit hour, pre-requisite(s) and co-requisite(s) information, visit the Detailed Course Information page: www.ptc.edu/courses/HRT130.

Textbook and Other Materials:

For textbook information and additional required and/or supplemental materials, visit the college bookstore (www.ptc.edu/bookstore).

Proctored Examinations:

Proctored examinations for distance learning courses taken at non-PTC campuses may require a proctoring fee for each exam taken.

COURSE POLICIES

Course policies are available online through the *Academic Catalog* and *Student Handbook*. Visit the Course Policies page (www.ptc.edu/syllabus/policies) for a detailed list of important policies and more information.

GRADE POLICY

Detailed grading policy information can be found on the Grading Policy webpage (http://www.ptc.edu/grading-policy). Final grade appeal information is available in the *Academic Catalog* (http://www.ptc.edu/catalog/).

ACCOMMODATIONS

Accommodations for ADA:

Information is available on the Student Disability Services webpage (http://www.ptc.edu/ada).

TITLE IX HARASSMENT AND SEXUAL ASSAULT INFORMATION

In accordance with Title IX of the Education Amendments of 1972, Piedmont Technical College does not discriminate on the basis of sex in its education programs or activities. Title IX protects students, employees, and applicants from sex discrimination in admissions and employment to include discrimination based on gender identity or failure to conform to stereotypical notions of masculinity or femininity. More information regarding Title IX, including contact information for the Title IX coordinators, is available at Title IX Harassment and Sexual Assault Information (https://www.ptc.edu/about/legal-disclosures/title-ix-harassment-and-sexual-assault-information).

RATIONALE

Why do I need this course?

Greenhouse growers are embracing automation technologies and more efficient crop production practices every year. Growers of greenhouse crops must know how to operate simple to complex environmental control systems and automated potting and transplanting machines in order to be successful in the modern greenhouse operation. More importantly, all growers must know how to irrigate, fertilize, control crop height, and manage pest and plant disorders in order to produce a healthy marketable crop.

PROGRAM INFORMATION

For program information including required courses, program learning outcomes, gainful employment information and advisement information, refer to the Academic Program webpage. Go to Academics (http://www.ptc.edu/academics), select your program, and then select Credentials Offered.

COURSE STUDENT LEARNING OUTCOMES

Revision Date: 2/2/2021

Upon successful completion of this course and/or clinical, each student will be able to:

- Appraise existing and proposed greenhouse structures, identifying the greenhouse type, glazing material, framing material, heating system, cooling system, bench type, and irrigation system used and critique whether the greenhouse is designed and used properly.

- Review the effect of environmental conditions on plant growth and operate greenhouse environmental control systems to optimize the greenhouse environment for the production of various crop species.

- Demonstrate the ability to integrate the knowledge of climatic conditions, crop water requirements, and substrate moisture holding capacity to make appropriate irrigation application decisions.

- Express an understanding of the various crop management and monitoring practices performed to grow a quality marketable crop.

- Diagnose common greenhouse crop problems and pests and recommend corrective action steps.

GENERAL EDUCATION COMPETENCIES

Piedmont Technical College General Education Competencies for All Graduates:

This course may address one or more of the following General Education Competencies (assessment will be stated when applicable):

Communicate effectively.

Assessment:

N/A

Apply mathematical skills appropriate to an occupation.

Assessment:

Students will read a greenhouse irrigation research paper and interpret the data tables and graphs.

Employ effective processes for resolving problems and making decisions.

Assessment:

N/A

Revision Date: 2/2/2021

Demonstrate the basic computer skills necessary to function in a technological world.

Assessment:

N/A

To validate proficiency in the general education competencies, students in some programs will be tested using Work Keys.