

**SEWARD COUNTY COMMUNITY COLLEGE
COURSE SYLLABUS**

I. TITLE OF COURSE: AG1914- Principles of Horticulture with Lab

II. COURSE DESCRIPTION: 4 credit hours
3 credit hours of lecture and 2 credit hours of lab per week.

The course will cover the basic principles of plant science and the environment that apply to horticulture; survey of the industry; plant taxonomy, anatomy, morphology, and physiology; environment and plant growth; plant propagation, pest management, and plant breeding. The horticultural principles covered in this course will prepare the student for specialized courses in areas of horticulture, including vegetable science, fruit science, nursery management, floriculture, turfgrass science, landscaping and others. For each unit of credit, a minimum of three hours per week, with one of the hours for class and two hours for studying/preparing outside of class is expected.

For each unit of credit, a minimum of three hours per week with one of the hours for class and two hours for studying/preparation outside of class is expected.

Pre-requisite: NA

III. PROGRAM AND/OR DEPARTMENT MISSION STATEMENT:

The agricultural program at Seward County Community College/Area Technical School provides opportunities to further each student's knowledge and apply specific methods and techniques to the management and performance of agricultural operations.

IV. TEXTBOOK AND MATERIALS:

Practical Horticulture by Laura Williams Rice and Robert P. Rice Jr. 7th Edition

V. SCCC OUTCOMES

Students who successfully complete this course will demonstrate the ability to do the following SCCC Outcomes.

I: Read with comprehension, be critical of what they read, and apply knowledge gained to real life

II: Communicate ideas clearly and proficiently in writing, appropriately adjusting content and arrangement for varying audiences, purposes, and situations.

IV: Demonstrate mathematical skills using a variety of techniques and technologies.

V: Demonstrate the ability to think critically by gathering facts, generating insights, analyzing data, and evaluating information

VI: Exhibit skills in information and technological literacy

IX: Exhibit workplace skills that include respect for others, teamwork competence, attendance/punctuality, decision making, conflict resolution, truthfulness/honesty, positive attitude, judgment, and responsibility

VI. COURSE OUTCOMES:

Acquaint the student with the history of horticulture
Recognize and understand the structure of higher plants
Correctly use the botanical classification system for plants

Gain an understanding of plant growth and development
Acquire knowledge of plant propagation
Understand the relationship between plants and their environment.
Identify plant problems including pests and diseases

VII. COURSE OUTLINE:

1. Overview of the Horticulture Industry
2. Structure of Higher Plants
3. Naming and Classifying Plants
4. Plant Growth and Development
5. Plant Propagation
6. Plants and Their Environment
7. Plant Problems
8. Laboratory Activities

VIII. INSTRUCTIONAL METHODS:

Lectures/Discussion
Laboratory hands on experiences
Guest speakers

IX. INSTRUCTIONAL AND RESOURCE MATERIALS:

The Nature and Properties of Soils, 2008, Brady, Nyle C. Pearson
Math for Soil Scientists, 2006, Coyne, Marks S., Thompson Delmar
Plant Nutrient Requirements & Production, DVD CEV Multimedia
Plant ID Indoor Plants, DVD CEV Multimedia
Pest Identification, DVD CEV Multimedia
Landscape Design DVD CEV Multimedia
Landscape Power Tools& Safety Procedures DVD CEV Multimedia

X. METHODS OF ASSESSMENT:

Methods of assessing the general course outcomes and the specific course competencies include tests, daily assignments, completion of lab assignments, class attendance, and participation.
SCCC Outcome #1 will be assessed and measured by class participation, evaluation of writing assignments covering class topics read, and lab assignment completion.
SCCC Outcome #2 will be assessed and measured by writing assignments relating to course assignments
SCCC Outcome #4 will be assessed and measured by completing class and laboratory assignments involving mathematical skills.
SCCC Outcome #5 will be assessed and measured by written summaries of lab work and course assignments.
SCCC Outcome #6 will be assessed and measured by the students properly utilizing lab equipment and use of computer technology for research.
SCCC Outcome #9 will be assessed and measured by participation in small work groups for class and lab assignments as well as personal conduct in class attendance and punctuality.

XI. ADA STATEMENT:

Under the Americans with Disabilities Act, Seward County Community College will make reasonable accommodations for students with documented disabilities. If you need support or assistance because of a disability, you may be eligible for academic accommodations. Students should identify themselves to the Dean of Students at 620-417-1106 or going to the Student Success Center in the Hobble Academic building, room 149 A.

Syllabus Reviewed: 10/30/2018 20:40:27