

**SEWARD COUNTY COMMUNITY COLLEGE
COURSE SYLLABUS**

I. TITLE OF COURSE: AG2723- Weed Science

**II. COURSE DESCRIPTION: 3 credit hours
3 credit hours of lecture and 0 credit hours of lab per week.**

Course will provide an introduction to topics in weed science. Classification and control of weeds will be examined in detail. The importance of plant-herbicide and soil-herbicide interactions will be examined in detail. Other important components of the course include weed life cycles, weed management, herbicide groups, and application.

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.

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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 skills through a variety of courses and activities for contribution to a safe and economical food, feed, and fiber supply.

IV. TEXTBOOK AND MATERIALS:

Applied Weed Science, M.A. Ross and A. Lembi 3rd 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.

III: Communicate their ideas clearly and proficiently in speaking, 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

VII: Demonstrate knowledge and comprehension of the diverse cultures, creeds, and lifestyles of America and the world community.

VIII: Show the ability to contribute to political, civic, and community responsibilities as an informed member of society

VI. COURSE OUTCOMES:

The student will be able to classify weeds.

The student will be able to categorize plant life cycles and herbicide groups with respect to their importance in weed management.

The student will be able to characterize the scientific method and implement it within the broader scope of weed science.

The student will be able to distinguish factors that influence pesticide laws and regulations.

VII. COURSE OUTLINE:

1. Weeds and Their Importance
2. Ecology of Weeds and Invasive Plants
3. The Plant System
4. The Soil System
5. Management of Invasive Weeds
6. Introduction to Herbicides
7. Plant-Herbicide Interactions
8. Soil-Herbicide Interactions
9. Herbicide Resistance
10. Herbicide Groups (Foliar)
11. Herbicide Groups (Soil)
12. Weed Life Cycles
13. Weed Management
14. Aquatic Plant Management
15. Herbicide Applications
16. Tillage/Troubleshooting

VIII. INSTRUCTIONAL METHODS:

Lecture and class discussion.
Guest Speakers
Handouts, mass media, etc.
Presentations/Projects

IX. INSTRUCTIONAL AND RESOURCE MATERIALS:

NRCS Soil Management Video
USDA Soils Training Material
Cooperative Extension Service Literature

X. METHODS OF ASSESSMENT:

Methods of assessing the general course outcomes and the specific course competencies include class participation, attendance, exam scores, homework assignments, and presentation assignments

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 Hobbie Academic building, room 149 A.