

**SEWARD COUNTY COMMUNITY COLLEGE
COURSE SYLLABUS**

I. TITLE OF COURSE: AG2904- Soils with Lab

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

A study of the physical, biological and chemical properties of soils with a view towards the proper management of soils for efficient crop production and minimum soil erosion. A laboratory period is an integral part of the course designed to give the student an opportunity to observe first hand the different physical properties of soils and to make different soil chemistry tests.

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 apply specific methods and techniques to the management and performance of agricultural operations.

IV. TEXTBOOK AND MATERIALS:

Soils Science and Management, 6th Edition by Edward Plaster Dakota County Technical College, MN

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.

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

VI. COURSE OUTCOMES:

The student will gain an understanding of what constitutes soil.
The student will gain an understanding of foreign materials contained within soil.
The student will be able to understand and identify various types of soils around the world.
The student will be able to understand and identify factors of proper soil management.
The student will be able to identify harmful practices for soil composition.

VII. COURSE OUTLINE:

1. Soil and its constituents.
2. Composition
3. Proper soil management.
4. Soil Formation and Morphology
5. Soil Fertility
6. Detrimental soil management practices.

VIII. INSTRUCTIONAL METHODS:

Lecture
Discussion
Group Activities
Class Handouts
Projects/ Presentations

IX. INSTRUCTIONAL AND RESOURCE MATERIALS:

The Nature and Properties of Soils
Soils, an Introduction to Soil and Plant Growth
Soil Science Simplified
Class Handouts
CEV

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.

SCCC Outcome #1 will be assessed and measured by class participation and comprehension of material read.

SCCC Outcome #2 will be assessed and measured by written explanations for thoughts and ideas related to soil science through exams and written work.

SCCC Outcome #3 will be assessed and measured by classroom discussions, and oral presentations.

SCCC Outcome #5 will be assessed and measured by students decisions regarding interpretations from soil surveys.

SCCC Outcome #6 will be assessed and measured by students use of current soil analysis programs and technologies.

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.