

**SEWARD COUNTY COMMUNITY COLLEGE
COURSE SYLLABUS**

I. TITLE OF COURSE AG2713- Environmental Quality

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

This course will focus on the management and preservation of our natural resources in relation to Agriculture Production. We will cover the historical significance of natural resources management, What are the different Natural resources, How are natural resources affect our lives , how natural resources are managed across all areas of agriculture, and careers in Natural resource management.

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: *none*

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

Cengage : Managing Our Natural Resources 6th edition: William G Camp, Betty Heath -Camp

V. SCCC OUTCOMES

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

Outcome # 1: Read with comprehension, be critical of what they read, and apply knowledge gained to real life situations.

Outcome #5: Demonstrate the ability to think critically by gathering facts, generating insights, analyzing data, and evaluating information.

Outcome #6: Exhibit skills in information and technological literacy.

VI. COURSE OUTCOMES:

The Student will gain an understanding for natural resource management and how natural resources affect their lives daily and how proper management will affect their agricultural operations. They will also gain an understanding of the careers associated with Natural resource management.

VII. COURSE OUTLINE

Chapter 1: Our Natural Resources

Chapter 2: A history of conservation in the United States
Chapter 3: Concepts of Natural Resource Management
Chapter 4: Soil
Chapter 5: Soil Erosion (exam 1 on canvas)
Chapter 6: Controlling Erosion on the Farm
Chapter 7: Non-Farm Erosion Control
Chapter 8: Rangeland Management
Chapter 10: Wetland Preservation and Management
Chapter 11: Land Use Planning (exam 2 on canvas)
Chapter 12: Careers in soil Management
Chapter 13: Water supply and Water Users
Chapter 14: Water Pollution
Chapter 15: Water Purification and Wastewater Treatment
Chapter 16: Water Use planning Exam # 3 (on canvas)
Chapter 17: Air and Air Quality
Chapter 18: Careers in Water and Air Management
Chapter 19: Our forest and their Products
Chapter 20: Woodland Management
Chapter 21: Forest enemies and their Control (exam #4)
Chapter 22: Fire
Chapter 23: Careers in Forestry
Chapter 24: Fish and wildlife in America
Chapter 25: Game Management
Chapter 32: Fossil Fuels Exam #5
Chapter 33: Alternative Energy Sources Management
Chapter 34: Metals and Minerals
Chapter 35: Careers in Energy, Mineral and Metal Resources (exam #6)

VIII. INSTRUCTIONAL METHODS

1. Lecture/ lecture notes
2. Videos
3. Discussion boards
4. Quizzes and Tests

IX. INSTRUCTIONAL AND RESOURCE MATERIALS

1. Cengage interactive textbook resources
2. Internet sources

X. METHODS OF ASSESSMENT

Methods of assessing the general course outcomes and the specific course competencies include:

1. Class participation

2. Attendance
3. Exam scores
4. Homework assignments
5. 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 go to the Student Success Center in the Hobble Academic building, room A149.

Syllabus Reviewed: 8/14/2022 JN