

**SEWARD COUNTY COMMUNITY COLLEGE
COURSE SYLLABUS**

I. TITLE OF COURSE: AG1753- Beef Production

II. COURSE DESCRIPTION: 3 credit hours

3 credit hours of lecture and 0 credit hours of lab per week.

The study of beef cattle production, providing and introduction into cow-calf, stocker, and feedlot production. The course will have an integrated approach to cattle production with emphasis placed on managing the herd for economic efficiency.

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:

Beef Production and Management Decisions, Taylor, Robert E 5th edition Prentice Hall

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.

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

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

VI. COURSE OUTCOMES:

- A. Determine how to manage a cow herd for maximum economic efficiency.
- B. The student will be able to determine break even calculations for feeding cattle, running stockers, and selling calves.
- C. Develop an understanding of factors affect the price of cattle.
- D. The student will become familiar with beef breeds and composites and how to use the breeds in a commercial setting.
- E. The student will be exposed to and will gain an understanding of the differences of the following types of cattle operations: Purebred industry, stocker programs, commercial cow/calf program and feedlots.
- F. The student will be informed of the current trends in the cattle industry.
- G. Develop an understanding of reproduction, nutrition, herd health, and genetics in beef

production.

H. Provide a foundation of terminology and knowledge needed for additional academic work in beef production.

VII. COURSE OUTLINE:

- A. Overview of the cattle industry
 - 1. The past
 - 2. The present
 - 3. Beef consumption
 - 4. Beef image
- B. Selection principles and systems
 - 1. Beef breeds
 - 2. Composites
 - 3. Mating systems
 - 4. Matching cattle to the environment
 - 5. Genetic principles
- C. Managing the cow calf operation
 - 1. Reproduction
 - 2. Herd health
 - 3. Nutrition
 - 4. Selection
 - 5. Calf management
 - 6. Economics
- D. Post Weaning
 - 1. Stocker programs
 - 2. Feedlot
 - 3. Retained ownership

VIII. INSTRUCTIONAL METHODS:

- A. Lecture (In-person lecture: exam reviews)
- B. On line Lecture
- C. Embedded Video
- D. Outside Reading Material
- E. On-line/In Class Discussions
- F. Student research

IX. INSTRUCTIONAL AND RESOURCE MATERIALS:

- A. Kansas Beef Cattle Handbook
- B. BEEF magazine
- C. Beef Cattle Production, Verl M. Thomas
- D. Feeds and Feeding, Cullison & Lowrey
- E. Class Handouts

X. METHODS OF ASSESSMENT:

- A. Methods of assessing the general course outcomes and the specific course competencies include tests, weekly work, industry "hot topic" discussion, class attendance, and participation.
- B. SCCC Outcome #1 will be assessed and measured by answers provided for the weekly assigned readings and by participation in on-line discussion of assigned outside readings.
- C. SCCC Outcome #2 will be assessed and measured by class participation and on-line

discussion of assigned outside readings.

D. SCCC Outcome #5 will be assessed and measured by computer assignments due regarding whole herd planning.

E. SCCC Outcome #8 will be assessed and measured by participation in on line and in class discussions on hot topics in the beef industry.

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.

Syllabus Reviewed: 08/17/2018 18:59:28