

**COLLEGE OF SCIENCE & ENGINEERING TECHNOLOGY**  
**Sam Houston State University**

Course Description and Syllabus

<b>DEPARTMENT:</b>	Agricultural Sciences
<b>COURSE NUMBER AND TITLE:</b>	ANSC 4380 – Beef Cattle Production and Management
<b>SEMESTER:</b>	Fall 2017
<b>LOCATION OF CLASS MEETING:</b>	Fred Pirkle Engineering Technology Center 300 A&B
<b>CLASS MEETING TIME:</b>	Monday and Wednesday, 10:00 – 10:50 am
<b>INSTRUCTOR:</b>	Kyle J. Stutts, Ph.D., Associate Professor - Animal Science
<b>OFFICE LOCATION:</b>	Fred Pirkle Engineering Technology Center 450 D
<b>TELEPHONE:</b>	936-294-1219 (office)
<b>EMAIL:</b>	<a href="mailto:stutts@shsu.edu">stutts@shsu.edu</a>
<b>OFFICE HOURS:</b>	As posted or by appointment
<b>TEACHING ASSISTANT:</b>	Frank Aniol, PIRK 450, 936-294-1208, <a href="mailto:fja007@shsu.edu">fja007@shsu.edu</a>
<b>LABORATORY:</b>	Monday, 1:00-2:50 pm – Instructor: Kyle Stutts Monday, 3:00-4:50 pm – Instructor: Frank Aniol
<b>LOCATION OF LAB:</b>	PIRK 210 C and Gibbs Ranch

**COURSE DESCRIPTION:**

This course is focused on the cow-calf segment of the beef industry but will also make students familiar with the stocker, feeder, and packer segments of the industry. Emphasis will be placed on management strategies for efficient use of resources to produce beef calves for sale.

Throughout this course, students will:

1. Develop an understanding of the dynamics and complexity of the beef cattle industry.
2. Develop a scientific knowledge of beef cattle production and management.
3. Strengthen critical thinking and problem solving skills for cost-effective management of beef cattle enterprises.

**REFERENCE AND TEXTBOOK:** Beef Production and Management Decisions, R.E. Taylor and T.G. Field, 3<sup>rd</sup> edition. Prentice Hall.

Course Notes Packet – available at Eagle Graphics

Blackboard

**ATTENDANCE POLICY:**

Regular and punctual class attendance is expected. If a student misses an exam due to an **EXCUSED** absence, arrangements must be made **IN ADVANCE** with the instructor to take the exam. Otherwise, a

single make-up exam will be comprehensive and scheduled at the end of the semester to replace one exam grade. Work turned in late (unexcused) will not be accepted and will result in a grade of zero for the assignment. In addition, SHSU policy states that a student may be penalized for more than three hours of absences at the discretion of the instructor. Laboratory attendance is mandatory. All students will earn a grade based on laboratory attendance and participation in laboratory activities. If a student misses a laboratory due to an **EXCUSED** absence, the student may receive credit for the laboratory by submitting a 5-page paper over the topic(s) covered during the missed laboratory.

#### **EXAMS AND GRADING PLAN:**

Grades will be determined based upon the equal weighting of four lecture exams, laboratory exercises, quizzes and a beef cattle ranch management plan.

Exams will be administered during the lecture period on the scheduled date. Laboratory exercises will include hands-on activities, written exercises, and development of a ranch management plan. A written plan will be submitted near the end of the semester and an oral presentation of the key points of the plan will be made during the lab period.

Grade distributions will be based upon the following scale:

A = 90 – 100    B = 80 – 89    C = 70 – 79    D = 60 – 69    F = <60

#### **ACADEMIC DISHONESTY:**

All students are expected to engage in all academic pursuits in a manner that is above reproach. Students are expected to maintain complete honesty and integrity in the academic experiences both in and out of the classroom. Any student found guilty of dishonesty in any phase of academic work will be subject to disciplinary action. The University and its official representatives may initiate disciplinary proceedings against a student accused of any form of academic dishonesty including, but not limited to, cheating on an examination or other academic work which is to be submitted, plagiarism, collusion and the abuse of resource materials.

Cheating **WILL NOT** be tolerated. Students caught cheating on an exam or quiz will be given a zero (0) for the exam or quiz grade and a letter will be written to the student's file.

#### **CLASSROOM RULES OF CONDUCT:**

Students will refrain from behavior in the classroom that intentionally or unintentionally disrupts the learning process and, thus, impedes the mission of the university. Cellular phones and pagers must be turned off before class begins. Students are prohibited from making offensive remarks, sleeping, talking at inappropriate times, wearing inappropriate clothing, or engage in any other form of distraction. Inappropriate behavior in the classroom shall result in a directive to leave class. Students who are especially disruptive also may be reported to the Dean of Students for disciplinary action in accordance with university policy.

#### **USE OF TELEPHONES AND TEXT MESSAGING DEVICES IN ACADEMIC CLASSROOMS:**

The use by students of electronic devices that perform the function of a telephone or text messaging

during class-time may be prohibited if deemed disruptive by the instructor to the conduct of the class. Arrangements for handling potential emergency situations may be granted at the discretion of the instructor. Failure to comply with the instructor's policy could result in expulsion from the classroom or with multiple offenses, failure of the course.

Any use of a telephone, text messaging device, or any device that performs these functions during a test period is prohibited. These devices should not be present during a test and should be stored securely in such a way that they cannot be seen or used by the student. Even the visible presence of such a device during the test period will result in a zero for that test. Use of these devices during a test is considered de facto evidence of cheating and could result in a charge of academic dishonesty.

#### **AMERICANS WITH DISABILITY ACT:**

It is the policy of Sam Houston State University that individuals otherwise qualified shall not be excluded, solely by reason of their disability, from participation in any academic program of the university. Further, they shall not be denied the benefits of these programs nor shall they be subjected to discrimination. Students with disabilities that might affect their academic performance should register with the Office of Services for Students with Disabilities located in the Lee Drain Annex (telephone 936-294-3512, TDD 936-294-3786, and e-mail [disability@shsu.edu](mailto:disability@shsu.edu)). They should then make arrangements with their individual instructors so that appropriate strategies can be considered and helpful procedures can be developed to ensure that participation and achievement opportunities are not impaired.

SHSU adheres to all applicable federal, state, and local laws, regulations, and guidelines with respect to providing reasonable accommodations for students with disabilities. If you have a disability that may affect adversely your work in this class, then I encourage you to register with the SHSU Services for Students with Disabilities and to talk with me about how I can best help you. All disclosures of disabilities will be kept strictly confidential. NOTE: No accommodation can be made until you register with the Services for Students with Disabilities. For a complete listing of the university policy, see: <http://www.shsu.edu/dept/academic-affairs/documents/aps/students/811006.pdf>

#### **RELIGIOUS HOLIDAYS:**

University policy states that a student who is absent from class for the observance of a religious holy day shall be permitted to take an examination or complete an assignment scheduled for that day within a reasonable time after the absence. A student who wishes to be excused for a religious holy day must present the instructor with a written statement describing the holy day(s) and the travel involved. The instructor should provide the student with a written description of the deadline for the completion of missed exams and/or assignments.

#### **TOBACCO POLICY:**

In order to promote a healthy, safe, and aesthetically pleasing work, educational, and living environment, Sam Houston State University (SHSU) will endorse a smoke free and tobacco free environment. The primary purpose of this policy is to establish guidelines prohibiting smoking and the use of all tobacco products. Tobacco products include cigarettes, cigars, pipes, smokeless tobacco, and all other tobacco products. This policy applies to all faculty, staff, students, employees of contractors, and visitors of Sam Houston State University on the premises of the university.

## **COURSE OUTLINE:**

- I. Orientation and Introduction
- II. Beef Production in the United States and Texas
- III. Cow-Calf Phase
  - A. Establishment of a defined breeding season
  - B. Calving Seasons
  - C. Crossbreeding systems
  - D. Management Considerations for Bulls
  - E. Breeding systems
    - a. Estrous Synchronization, Artificial Insemination, and Embryo Transfer
  - D. Replacement Heifer Development
  - E. Beef Quality Assurance
- IV. Nutrition
  - A. Nutrition
  - B. Nutrient requirements of beef cattle
  - C. Winter cattle feeding and supplementation
  - D. EPD's and Performance Data
- V. Diseases and Parasites
  - A. Managing herd health
- IX. Stocker Cattle Management
  - A. Preconditioning
  - B. Value-added Programs
- X. Government Policies

## **Lab Activities**

- Safety procedures when handling beef cattle/CITI training
- Beef cattle handling
- Calf working/processing
- Herd performance records
- Expected progeny differences
- Breeding cattle evaluation and selection
- Beef Quality Assurance
- Stocker/feeder calf evaluation
- Pasture evaluation and stocking rates
- Body condition scoring and cow culling decisions
- Corral/working pen design
- Ranch Management Plan