INTRODUCTORY ANIMAL SCIENCE LAB

AGRI 1119

Course Syllabus

Chad Henry-Instructor
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Course Description:
This laboratory-based course accompanies Introductory Animal Science (lecture) for Ag Majors. Laboratory activities will reinforce scientific animal production and the importance of livestock and meat industries. Selection, reproduction, nutrition, management, and marketing of livestock. Pre-/Co-requisite: AGRI 1319 Introductory Animal Science (lecture)

Textbook:
None. Materials will be provided in class.

Learning Outcomes
Upon successful completion of this course, students will:
1. Apply scientific reasoning to investigate questions and utilize animal science tools to collect and analyze data and demonstrate methods.
2. Use critical thinking and scientific problem-solving to make informed decisions.
3. Communicate effectively the results of scientific investigations.
4. Explain the role of animal agriculture in providing benefits for mankind.
5. Identify common livestock breeds and classes.
6. Define terminology specific to animal science disciplines.
7. Demonstrate understanding of fundamental animal science principles including selection, reproduction, nutrition, and health.
8. Apply animal science principles by solving common problems.
9. Identify animal issues of interest to society, and related responsibilities.

General Course Requirements:
Lab work may require clothing suitable for outdoor farm settings. The majority of our labs will take place at the College Farm. Labs will be scheduled with the Farm Manager as to the timing of our activities. Class attendance is required. If you have more than three unexcused absences, you should consult with me about your grade. Anyone who wishes to withdraw from class must take the responsibility to formally drop with the Registrar; otherwise a failing grade will be given.

Office Hours
MWTR 7:30-8:00; 1:00-1:30; TR 10:30-11:00; T 3:30-5:00; R 1:00-4:30

Appointments with me may be scheduled at other times. Call for an appointment at (903) 434-8177. My office is located in AGC 110 and my e-mail address is chenry@ntcc.edu.
ADA Statement

It is the policy of Northeast Texas Community College to provide reasonable accommodations for qualified individuals who are students with disabilities. This College will adhere to all applicable federal, state and local laws, regulations and guidelines with respect to providing reasonable accommodations as required to afford equal educational opportunity. It is the student’s responsibility to arrange an appointment with a College counselor to obtain a Request for Accommodations form. For more information, please refer to the Northeast Texas Community College Catalog or Student Handbook.

Family Educational Rights And Privacy Act (FERPA):
The Family Educational Rights and Privacy Act (FERPA) is a federal law that protects the privacy of student education records. The law applies to all schools that receive funds under an applicable program of the U.S. Department of Education. FERPA gives parents certain rights with respect to their children’s educational records. These rights transfer to the student when he or she attends a school beyond the high school level. Students to whom the rights have transferred are considered “eligible students.” In essence, a parent has no legal right to obtain information concerning the child’s college records without the written consent of the student. In compliance with FERPA, information classified as “directory information” may be released to the general public without the written consent of the student unless the student makes a request in writing. Directory information is defined as: the student’s name, permanent address and/or local address, telephone listing, dates of attendance, most recent previous education institution attended, other information including major, field of study, degrees, awards received, and participation in officially recognized activities/sports.

Grading:
Grades will be computed as follows:

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>Quizzes</td>
<td>30%</td>
</tr>
<tr>
<td>Class Participation</td>
<td>40%</td>
</tr>
<tr>
<td>Skills Test</td>
<td>30%</td>
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</tbody>
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The grading scale below will be used to determine your final grade.

<table>
<thead>
<tr>
<th>Points</th>
<th>grade</th>
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<tbody>
<tr>
<td>90-100</td>
<td>A</td>
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<tr>
<td>80-89</td>
<td>B</td>
</tr>
<tr>
<td>70-79</td>
<td>C</td>
</tr>
<tr>
<td>60-69</td>
<td>D</td>
</tr>
<tr>
<td>BELOW 59%</td>
<td>F</td>
</tr>
</tbody>
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Quizzes:
We will have written and oral quizzes during the semester they will be announced and unannounced. (30%).

Class Participation:
Class participation is based on attendance, discussion, and participation. The activities may include: worming, vaccination, dehorning, branding, palpating, weighing cattle and calculating ADG, cattle handling, artificial insemination, embryo transfers, semen evaluations, cattle judging, horse handling, and horse judging. There will be no make-up days for class participation.

Skills Test:
Students will be required to perform a variety of animal science skills: vaccination, animal identification, animal handling, castration, pregnancy determination, calculating ADG, semen evaluation and other basic livestock management techniques. There will be no make-up days for skills test.
Academic Dishonesty:

Cheating is against the Northeast Texas Community College policy. Cheating includes any attempt to defraud, deceive, or mislead the professor in arriving at an honest grade assessment. Plagiarism is a form of cheating that involves presenting as one’s own the ideas or work of another.

Violation of the cheating policy may result in a lowered grade of “F” in the course. A grade assigned to a student because of an alleged cheating policy violation may be appealed by the student through the appeals process of the College. See the Student Handbook for details. I recommend that you become familiar with your handbook.

Course Objectives:
The Student should know:

• The species name and common terminology used to describe cattle, horses, sheep, goats, pigs, and chickens
• What influences phenotype
• The identifying characteristics of common beef, dairy, sheep, goat, and swine breeds
• the history of animal agriculture and livestock domestication
• basic livestock names and physiological parameters
• the difference between animal breeding and animal propagation
• the effect of the environment on phenotypic expression of a genetic trait
• the systems of mating used in animal agriculture
• anatomic features of both male and female reproductive systems in the major livestock species
• the definition of puberty and the effect the environment has on its expression
• about estrous cycles and estrus lengths for various livestock species
• common methods of diagnosing pregnancy in livestock and reasons for performing these management procedures
• the current and future use of artificial insemination, embryo transfer, embryo splitting, and genetic manipulation in livestock management
• the basic rules of thumb in feeding livestock
• the five commonly recognized dairy breeds in the U.S.
• special considerations in feeding and managing dairy cattle
• body condition scoring and its importance to animal reproduction, nutrition, and overall well-being
• the distinguishing characteristics of the most common breeds of goats in the U.S.
• the feeding techniques, feed, and nutritional management of goats
• the common health disorders of goats
• distinguishing characteristics of beef breeds in the U.S.
• the importance of hybrid vigor in beef cattle
• beef cattle facilities, equipment, and management of beef cattle
• common parasites and the affect on the beef industry
• methods of selecting, breeding, and judging beef cattle
• distinguishing characteristics of common U.S. sheep breeds
• the difference between ewe, ram, and dual purpose breeds of sheep
• the various nutritional and reproductive management principles involved with sheep production
• distinguishing characteristics of common breeds of U.S. swine
• methods of selecting, breeding, and judging swine
• common management procedures used in various swine production systems
• common swine diseases and their symptoms
• the distinguishing characteristics of the most common U.S. poultry breeds
• how the skeletal anatomy differs from that of other livestock
• the reproductive anatomy of the hen and functions of egg development
• special considerations if feeding poultry
• common poultry diseases and their symptoms
• management considerations in both the broiler and layer industries
Course Outline:
Labs will be scheduled with the Farm Manager as to the timing of our activities. The activities will include:

1. Worming
2. Vaccination
3. Dehorning
4. Branding
5. Palpating
6. Castration
7. Weighing and measuring livestock
8. Calculating ADG
9. Body Condition Scoring
10. Livestock handling
11. Artificial insemination
12. Embryo transfers
13. Semen evaluations
14. Livestock selection
15. Horse handling
16. Horse judging.