



RANGER COLLEGE
RANGER, TEXAS

COURSE SYLLABUS

INTRODUCTORY ANIMAL SCIENCE
AGRICULTURE 1319

3 credit hours

INSTRUCTOR: HERMAN GLUECK

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EMAIL: hglueck@rangercollege.edu
OFFICE: NO OFFICE
PHONE: 254-631-5772
HOURS: NO HOURS

I. Texas Core Curriculum Statement of Purpose

Through the Texas Core Curriculum, students will gain a foundation of knowledge of human cultures and the physical and natural world, develop principles of personal and social responsibility for living in a diverse world, and advance intellectual and practical skills that are essential for all learning.

II. Course Description

Scientific animal production and the importance of livestock and meat industries. Selection, reproduction, nutrition, management, and marketing of livestock.

III. Required Background or Prerequisite

No prerequisite

IV. Required Textbook and Course Materials

Textbook: "Introduction to Animal Science" – Damion, Stephan – ISBN:9780132623896

V. Course Purpose

1. Students will be able to understand the role of animals in agriculture.
2. Students will be able to identify various feeds for animals.
3. Students will have knowledge of the nutrients used by animals.
4. Students will understand the uses of animals.

VI. Learning Outcomes

Upon successful completion of this course, students will:

1. Explain the role of animal agriculture in providing benefits for humankind.

2. Identify common livestock breeds and classes.
3. Define terminology specific to animal science disciplines.
4. Demonstrate understanding of fundamental animal science principles including selection, reproduction, nutrition, and health.
5. Apply animal science principles by solving common problems.
6. Identify animal issues of interest to society, and related responsibilities.

VII. Core Objectives

This course meets the following of the six Core Objectives established by Texas:

- X **Critical Thinking Skills (CT)** – Creative thinking, innovation, inquiry, and analysis; evaluation and synthesis of information
- X **Communication Skills (COM)** – effective development, interpretation and expression of ideas through written, oral, and visual communication
- X **Empirical and Quantitative Skills (EQS)** – The manipulation and analysis of numerical data or observable facts resulting in informed conclusions
- X **Teamwork (TW)** – The ability to consider different points of view and to work effectively with others to support a shared purpose or goal
- X **Social Responsibility (SR)** – Intercultural competence, knowledge of civic responsibility, and the ability to engage effectively in regional, national, and global communities
- X **Personal Responsibility (PR)** – The ability to connect choices, actions, and consequences to ethical decision-making

VIII. Methods of Instruction

1. Students will answer questions during lecture.
2. Students will take tests on animal terms.
3. Students will take tests on animal reproduction.
4. These will all be kept in a notebook.

IX. Methods of Assessment

- 1.Attendance.
- 2.Quality of work in notebook.

Grading scale: A = 90-100% B = 80-89 C = 70-79 D = 60-69 F = Below 60

X. Course/Classroom Policies

1. Attendance is mandatory.
2. No cell phone use unless instructed to do so.
3. Required to write answers in notebook.

XI. Course Outline/Schedule

1. History of animal science
2. The U.S. animal science description
3. Types of livestock
4. Feeding livestock
5. Livestock reproduction
6. Introduction to production and use of meat
7. Beef cattle production
8. Swine production
9. Sheep and goat production
10. Horse production

XII. Non-Discrimination Statement

Admissions, employment, and program policies of Ranger College are nondiscriminatory in regard to race, creed, color, sex, age, disability, and national origin.

XIII. ADA Statement

Ranger College provides a variety of services for students with learning and/or physical disabilities. Students are responsible for making initial contact with the Ranger College Counselor, Gabe Lewis (glewis@rangercollege.edu). It is advisable to make this contact before or immediately after the semester begins.