



RANGER COLLEGE
RANGER, TEXAS

COURSE SYLLABUS

AGRONOMY
AGRICULTURE 1307

3 credit hours

INSTRUCTOR: HERMAN GLUECK

HERMAN GLUECK

INSTRUCTOR: HERMAN GLUECK
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

Principles and practices in the development production and management of field crops including growth and development, climate, plant requirements, pest management, and production methods.

III. Required Background or Prerequisite

No prerequisite

IV. Required Textbook and Course Materials

Textbook: Principles of Field and Crop Production
Martin, Walden, Stamp ISBN #0-13-025967-5

V. Course Purpose

The student should acquire some practical knowledge in:

1. The adaptation of certain crops to certain areas.
2. Method of germination of crop seeds.
3. Method of improvement in plants.
4. Use of commercial fertilizers, manures, and lime.
5. Harvesting and storing crops.
6. Grades and classifications of field crops.

VI. Learning Outcomes

Upon successful completion of this course, students will:

1. Summarize the role of climate and geography in present and past crop production.
2. Explain the growth and development of crops.
3. Analyze the impact of climate on crops.
4. Assess the interactions of soils, water, and fertility on crop production.
5. Contrast methods of pest management in crop production.
6. Differentiate production methods based on geography and crop selection.

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. Lecture with students answering questions in notebook.
2. Various TV presentations.
3. Various lab activities.

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. The art of crop production.
2. The science of crop production.
3. Climates.
4. Crop plants in relation to environment.
5. Botany of crop plants.
6. Crop improvements.
7. GMO practices.
8. Tillage practices
9. Fertilizer, green manuring, and rotation
10. Seeds and seeding
11. Harvest of grains
12. Harvest of hay and silage
13. Handling and marketing of grain seeds
14. Pastures
15. Weeds and their control

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.