

Course Code: AGB 101

Course Title: Introduction to Animal Science

Department: Agricultural Technologies

Effective Date: Summer 2026

PCS Code: 1.1 - Baccalaureate/Transfer

CIP Code: 01.0901

Repeatability: 0

Credit Hours

Catalog Notation: 3-2-4

Credit Hour Distribution:

Lecture: 3

Lab: 2

Clinical: 0

Total: 4

General Course Information

Catalog Description

Principles of livestock production. Includes animal products, breed identification, livestock selection, genetics and reproduction, nutrition and ration formulation, and livestock management practices.

General Course Objectives

To develop an understanding of:

- the products produced by livestock and the methods used to determine quality;
- livestock breeds, principles of selection, growth, and evaluation;
- the basic principles of reproduction and nutrition; and
- the principles involved in the commercial production of livestock and their contribution to humankind and their environment.

Minimum Placement Levels

English	Reading	Math
Placement out of ENG 098	Placement out of CCS 098	Placement into MAT 060

Prerequisites

None

Methods of Evaluation

The minimum evaluation methods will include: 3 hourly exams with objective and essay questions, laboratory exercises and laboratory attendance, field trip, final exam, and class participation.

Instructional Materials and Additional Supplies

Scientific Farm Animal Production, by Field Taylor. Most recent edition.

Additional costs for travel to livestock facilities as well as additional lab materials and supplies will be required. See instructor.

Course Content

General Learning Outcomes (GLOs)

- Communication: Students will demonstrate the ability to read, write, listen, and speak effectively.
- Reasoning and Inquiry: Students will demonstrate the ability to solve problems using deductive reasoning and logic, quantitative reasoning, or the scientific method.
- Technology: Students will demonstrate the ability to evaluate, select, and appropriately use current and emerging tools.

Course Segments and Student Learning Outcomes

Course Segment	Learning Outcomes	Lecture Hours	Lab Hours	Clinical Hours
Introduction to Animal Science	<ol style="list-style-type: none"> 1. Explain the economic importance of animals in agriculture in the state, U.S., and world. 2. Explain the cultural and economic differences in approaching animal agriculture. 	2	2	0
Animal Species, Breeds, and Selection	<ol style="list-style-type: none"> 1. Define common livestock terms (bull, steer, boar, stallion, ewe, etc.). 2. Identify the common breeds of dairy/beef cattle, swine, sheep, horses, and poultry. 3. Differentiate breeds through the important aspects of selection and variation. 4. Evaluate live animals. 	10	4	0
Animal Products for Human Consumption	<ol style="list-style-type: none"> 1. List and define desired characteristics of consumer products (meat, milk, eggs). 2. Identify quality and economics of products as a consumer and producer. 3. Identify meat cuts. 4. Evaluate quality grades of live carcasses and/or wholesale and retail cuts. 5. Evaluate dairy and poultry products. 	8	6	0
Animal Nutrition	<ol style="list-style-type: none"> 1. Describe the three main types of digestive systems, and thus why various feedstuffs must be utilized. 2. List the various feedstuffs available, and the primary value of them as nutrients. 3. List and define the six basic nutrients and their functions. 4. Describe how feeds are analyzed for nutrients, and how to formulate a ration. 5. Describe nutrient requirements for various species of livestock and feeding procedures. 	12	8	0
Animal Genetics and Reproduction	<ol style="list-style-type: none"> 1. Define animal genetic principles. 2. Describe how genetic selection can be made. 3. Identify reproductive anatomy. 4. Dissect reproductive anatomy. 5. Compare productive physiology in farm species. 	9	6	0
Livestock Management	<ol style="list-style-type: none"> 1. List and explain management procedures with emphasis on production animals (growing/finishing). 2. Identify and describe animal health, including diseases, parasites, and preventive measures. 3. Explain management procedures such as castration and identification marking as well as facilities and equipment. 	4	4	0

Total Contact Hours

Lecture Hours	Lab Hours	Clinical Hours
45	30	0