



MASTER COURSE OUTLINE

A. AGSC 1050 Introduction to Animal Science

B. COURSE DESCRIPTION:

This course is designed to introduce the student to the principals and applications of those principals in animal science. Instruction will address the topics relevant to the production of farm animals as well as a clear understanding of the scientific nature of animal science. By utilizing differentiated instruction, students will be given an opportunity for an in-depth study of the species of their choice. In the last few decades, profound changes have taken place in animal agriculture. This course will address those changes as well as look to the future of the industry. Included in the course will be information on how to feed, manage, breed and care for animals. Instruction will be applicable to traditional production species as well as companion and non-traditional species.

(3 Cr – 3 lect)

C. **Core Theme: Critical Thinking

D. MAJOR CONTENT AREAS:

- The Basics of Animals and Animal Science.
- The Value of Animals to Humanity
- Worldwide Agriculture and Systems of Agriculture Production
- The Biological Sciences of Animal Science
 - Nutrition and Feedstuffs in Animal Agriculture
 - Anatomy and Physiology of the Digestive Systems
 - The Principals of Genetics and its Impact on Animal Breeding
 - The Basics and Technology of Animal Reproduction and Lactation
 - Introduction of Animal Behavior and its Impact on Livestock Handling
 - The Nature of Disease and the Animals and Industry's Response
- Careers and Career Preparation in the Animals Sciences
- Food Safety and its Application to Animal Production Systems
- Animal Rights and Animal Welfare and the Role of Animal Agriculture
- Animals in Sustainable Agriculture Systems

E. GOAL TYPE, OBJECTIVES, AND OUTCOMES:

<u>GOAL TYPE</u>	<u>OBJECTIVES</u> Students will be able to	<u>OUTCOMES</u> The student will successfully
Critical Thinking	gather factual information and apply it to a given problem in a manner that is relevant, clear, comprehensive, and conscious of possible bias in the information selected.	<ol style="list-style-type: none"> investigate and complete an analysis of a current global issue or problem related to agricultural science. summarize and explain the context of the findings and the sources of possible bias in the analysis above. design one or more innovative solutions based on the findings that address the current issue or problem.
<u>CS</u>	explain the role of animal agriculture and its benefit to mankind	1.demonstrate an understanding of the effect of animal agriculture and the role animal scientists play in society.
<u>CS</u>	explain animal science principles	1.demonstrate understanding of fundamental animal science principles including selection, reproduction, and nutrition.
<u>CS</u>	define terminology specific to animal science disciplines.	1. define and explain the application of vocabulary terms related to animal science.
<u>CS</u>	understand the importance of technology related to animal agriculture.	<ol style="list-style-type: none"> provide an analysis of how technology relates to animal production. apply new and emerging technologies in scenario driven environments.
<u>CS</u>	recognize and evaluate potential ethical, legal and social issues related to an animal production	1. propose, articulate and defend an animal production system and make and defend conclusions predicting long term outcomes.
<u>CS</u>	demonstrate an understanding of the business of animal agriculture.	<ol style="list-style-type: none"> identify the important aspects of raising livestock. identify the important aspects of the animal agricultural industry. recognize the continually changing and ever complex domestic animal market.

F. SPECIAL INFORMATION:

This course may require use of the Internet, the submission of electronically prepared documents and the use of a course management software program. Students who have a disability and need accommodations should contact the instructor or the Student Success Center at the beginning of the semester. This information will be made available in alternative format, such as Braille, large print, or current media, upon request.

G. COURSE CODING INFORMATION: Course Code A/Class Maximum 48; Letter Grade

Revision date:

AASC Approval date: 2/19/2019

*Riverland Community College Disciplines	MnTC Goal Number
Communication (CM)	1
Natural Sciences (NS)	3
Mathematics/Logical Reasoning (MA)	4
History and the Social & Behavioral Sciences (SS)	5
Humanities and Fine Arts (HU)	6

**Riverland Community College Core Themes	MnTC Goal Number
Critical Thinking (CT)	2
Human Diversity (HD)	7
Global Perspective (GP)	8
Ethical and Civic Responsibility (EC)	9
People and the Environment (PE)	10

*These five MnTC Goals have been identified as Riverland Community College Disciplines.

** These five MnTC Goals have been identified as Riverland Community College Core Themes.

NOTE: The Minnesota Transfer Curriculum “10 Goal Areas of Emphasis” are reflected in the five required discipline areas and five core themes noted in the Riverland Community College program of study guide and/or college catalog.