Course # AGRI 1419

TRINITY VALLEY COMMUNITY COLLEGE
ADMINISTRATIVE-MASTER SYLLABUS

The Administrative- Master Syllabus is an administrative tool; it is **not intended to be distributed to students.** It is the intention of this Administrative-Master Syllabus to provide a general description of the course, outline the required elements of the course and to lay the foundation for course assessment for the improvement of student learning, as specified by the faculty of TVCC, regardless of who teaches the course, the timeframe by which it is instructed, or the instructional method by which the course is delivered. It is not intended to restrict the manner by which an individual faculty member teaches the course but to be an administrative tool to aid in the improvement of instruction. The Administrative-Master Syllabus will demonstrate that there is consistency and comparability in course offerings.

Course Title

Animal Science

Course Prefix and Number

AGRI 1419

Department – Division

Agriculture and Ranch Management

Course Type – select from one of the following categories.

☒ - **Academic General Education Course** (from ACGM – but not in TVCC Core)

☐ - **Academic TVCC Core Course**

☐ - **WECM Courses**

Semester Credit Hours: Lecture Hours: Lab/other hours

Semester Credit Hours	Lecture Hours	Lab/Other* Hours
4	3	3

Other hours include practicum, clinical or other types of non-lecture instruction. *If other, please specify: _____

Course Catalog Description

Basic course of study of the various types, breeds, market classes and grades of livestock. Factors influencing efficiency in feeding, marketing, breeding, care and management are considered.

Prerequisites/co requisites

None

Topical Outline

A.	Course Introduction	Chapter 1
	a) Animal contributions to human needs	
B.	Characterization of U.S. Animal Agriculture	Chapter 2
C.	USDA Grades and Market Classes	Chapter 8
	a) Market classes and grades of red meat animals	
	b) Market classes and grades of poultry products	
D.	Milk and Milk Products	Chapter 5
E.	Wool and Mohair Production and Marketing	Chapter 6
F.	Growth and Development of Livestock and Poultry	Chapter 18
G.	Exam 1	
H.	Principles of Genetics	Chapter 12
I.	Principles of Animal Breeding	
	a) Mating systems	Chapter 14
	b) Genetic change through selection	Chapter 13
J.	Beef Cattle Breeds and Breeding	Chapter 25
K.	Swine Breeds and Breeding	Chapter 29
L.	Exam 2	
M.	Environment Physiology	Chapter 20
N.	Nutrients and Feedstuffs	Chapter 15
O.	Comparative Digestive Systems	Chapter 16
P.	Applied Nutrition	Chapter 17
Q.	Exam 3	
R.	Reproduction	Chapter 10
	a) Comparative reproductive anatomy	
	b) Hormones of reproduction	
S.	Artificial Insemination, Estrous Synchronization, and Embryo Transfer	Chapter 11
T.	Animal Health	Chapter 21
U.	Animal Behavior	Chapter 22
V.	Issues in Animal Agriculture	Chapter 23
W.	Final Exam	

Course Learning Outcomes

Upon completion of this course the student will be able to:

1.) Appraise the role of animal agriculture in providing food and fiber for man.
2.) Contrast the problems and opportunities in modern animal agriculture.
3.) Apply basic principles from various disciplines to the field of animal science and evaluate their use in solving animal science problems.
4.) Choose areas for advance study in the broad field of animal science that will be of particular interest to you.

Relationship to General Education Outcomes – In addition to the core competencies, Trinity Valley Community College has established ten general education goals which specify knowledge and skills that students should gain from completing courses in the various component areas of the core curriculum. Information regarding curriculum and assessment as a means for the improvement of student learning through the general education component. (Select all that apply.)

Mark with an "X"	General Education Outcome
X	A. To communicate clearly and effectively in both oral and written English.
X	B. To improve reading skills focused on comprehending, analyzing, interpreting, and evaluating printed materials.
	C. To understand mathematical information and utilize mathematical skills.
X	D. To demonstrate qualitative and quantitative critical thinking skills.
	E. To understand and appreciate cultural and ethnic diversity.
	F. To utilize computer based technology in accessing information, solving problems, and communicating.
	G. To recognize and evaluate artistic achievements in the visual and performing arts.
	H. To improve basic understanding of political, economic, and social systems.
X	I. To demonstrate knowledge of the physical universe and living systems.
X	J. To develop skills and strategies to become an engaged learner.

Required Text(s)

Scientific Farm Animal Production, 8th edition *by Robert E. Taylor and Thomas G. Field*

Optional Text(s)

None

Material/Technology to be supplied by the student.

Course Requirements/Grading System – describe any course specific requirements such as research papers or reading assignments and the generalized grading format for the course; not intended to restrict the individual nature by which each faculty member who teaches the course determines course requirements and final student performance, but should offer consistency within reason for all sections taught for those departments without a standardized format.

Course Requirements:

1) Attend class and lab regularly and participate in discussions, field trips, class projects, and other exercises.
2) Take three major exams, complete all homework, and take the final exam as scheduled.
3) Complete the laboratory assignments and take the lab quizzes.
4) Complete four technical abstracts (article summaries) over a topic related to animal science. The first two are due on the day of the first exam and the last two are due on the day of the second exam. They must all be *word processed*.

V.) Semester Grade Computation:

Semester grades will be determined on the following basis:

1) Your presence, class and lab participation, and interest will count 10% of your grade.
2) Three major exams and one final exam will count 55% of your final grade.
3) Homework assignments will count 10% of your final average.
4) Laboratory quizzes and exercises will count 15% of your grade.
5) The four technical abstracts will count 10% of your final average.
6) With prior approval, bonus points may be earned by completing a *word processed* research paper on current topics in animal science.

Approvals – the contents of this document have been reviewed and are found to be accurate.

Prepared by Marc Robinson	Signature	Date 1-16-08
Department Head	Signature	Date
Division Chair	Signature	Date
Vice President	Signature	Date