

**Animal Science – Grade Levels 10-12  
TEKS Manager**

Credit: ½

Place a check (√) in each column to show TEKS taught.

	TEKS	1 <sup>st</sup> 6 wks	2 <sup>nd</sup> 6 wks	3 <sup>rd</sup> 6 wks
(a) General requirements. This course is recommended for students in Grades 9-12.				
(b) Introduction. To be prepared for careers in food and fiber production systems, students need to attain academic skills and knowledge, to acquire knowledge and skills related to food and fiber production and the workplace, and to develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need to have opportunities to learn, reinforce, apply, and transfer their knowledge and skills and technologies in a variety of settings.				
(c) Knowledge and skills.  (1) The student learns the employability characteristics of a successful worker in the modern workplace. The student is expected to:	(A) <b>identify</b> career development and entrepreneurship opportunities in the field of animal science;			
	(B) <b>apply</b> competencies related to resources, information, interpersonal skills, and systems of operation in animal science;			
	(C) <b>demonstrate</b> knowledge of personal and occupational safety practices in the workplace;			
	(D) <b>identify</b> employers' expectations, appropriate work habits, and good citizenship skills; and			
	(E) <b>plan and manage</b> supervised agricultural experience programs.			

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(2) The student explains animal anatomy and physiology related to nutrition, reproduction, health, and management of domesticated animals. The student is expected to:	(A) <b>know</b> the skeletal, muscular, respiratory, and circulatory systems of animals;			
	(B) <b>explain</b> the anatomy and physiology of other systems; and			
	(C) <b>explain</b> vital signs and normal behavior.			
(3) The student determines nutritional requirements of ruminant and non-ruminant animals. The student is expected to:	(A) <b>analyze</b> the digestive system;			
	(B) <b>identify</b> sources of nutrients and classes of feed;			
	(C) <b>identify</b> vitamins, minerals, and feed additives;			
	(D) <b>formulate</b> rations; and			
	(E) <b>discuss</b> feeding practices and feed quality issues.			
(4) The student explains animal genetics and reproduction. The student is expected to:	(A) <b>analyze</b> the reproductive system;			
	(B) <b>explain</b> the uses of genetics in animal agriculture;			
	(C) <b>list</b> systems of animal breeding; and			
	(D) <b>explain</b> current technologies in animal reproduction.			
(5) The student identifies animal pests and diseases. The student is expected to:	(A) <b>list</b> the role of bacteria, fungi, viruses, genetics, and nutrition in disease;			
	(B) <b>identify</b> methods of disease control, treatment, and prevention; and			
	(C) <b>evaluate</b> diseases and parasites of poultry.			
(6) The student recognizes livestock management techniques. The student is expected to:	(A) <b>perform</b> common surgical skills;			
	(B) <b>perform</b> common immunization skills;			
	(C) <b>demonstrate</b> livestock identification procedures; and			
	(D) <b>practice</b> proper restraining methods.			
(7) The student knows current topics in animal science. The student is expected to:	(A) <b>identify</b> the legal aspects of animal welfare and rights; and			
	(B) <b>evaluate</b> breeding animals selected by performance testing, production records, progeny testing, and visual appraisal.			