



# Animal Systems

**Course Overview:** Focuses on careers in the production, processing, marketing, distribution, financing, and development of agricultural commodities and resources.

**Career Goal (O\*NET Code):** **Veterinarian** (29-1131),  
Veterinary Technician (29-2056), Veterinary Assistant (31-9096).

**Student's Name:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**School:** Mabank High School **Grade:**  9th  10th  11th  12th  AR

**Primary Endorsement:** Business & Industry **Additional Endorsements:**  Arts & Humanities  Multidisciplinary  
 Public Service  STEM

**Parent's Signature:** \_\_\_\_\_ **Student's Signature** \_\_\_\_\_

## SUGGESTED COURSEWORK

## EXTENDED LEARNING EXPERIENCES

Middle School	8th	<b>HS Courses:</b>	Algebra I Art I Health	Spanish I Touch Systems Data Entry	<p><b>Curricular Experiences:</b> <a href="#">Health Occupation Student Association</a> <a href="#">Texas FFA Association</a></p> <p><b>Extracurricular Experiences:</b> Agriscience Fair College of Veterinary Medicine Open House Farm Bureau Exchange Programs School Newspaper Student Government UIL Academic Competitions Yearbook</p> <p><b>Service Learning Experiences:</b> Animal Emergency Response Animal Rescue Boy/Girl Scouts Children's Barnyard Community Service Volunteer Petting Zoos</p>
	High School	9th	<b>Core Courses:</b>	English I Algebra I or Geometry Biology	
<b>Career-Related Electives:</b>			Principles of Agriculture, Food and Natural Resources		
10th		<b>Core Courses:</b>	English II Geometry or Alg II IPC or Chemistry	World History Languages other than English II	
		<b>Career-Related Electives:</b>	Livestock Production (AGAH1353 & AGAH2313) and Veterinary Medical Applications		
11th	<b>Core Courses:</b>	English III Algebra II, Math Models, or Pre-Cal Physics	United States History Languages other than English III		
	<b>Career-Related Electives:</b>	Small Animal Management & Equine Science Medical Terminology Medical Microbiology			
12th	<b>Core Courses:</b>	English IV Alg II, Pre-Calculus, AP Calculus Anatomy & Physiology or AP Chemistry	Government/Economics Fine Arts Languages other than English IV		
	<b>Career-Related Electives:</b>	Advanced Animal Science and Practicum in Ag, Food & Natural Resources - Vet Med			
Practicum and/or Work-Based Experiences	Agricultural Research Service Employee    Ranch Employee    Veterinary Clinic Employee Employee    Pet Store Employee			<p><b>Professional Associations:</b> <a href="#">American Society of Animal Science</a> <a href="#">Block &amp; Bridle Club</a> <a href="#">Collegiate FFA</a> <a href="#">Post-Secondary Agricultural Students Association</a> <a href="#">Texas Veterinary Medical Association</a></p>	
	NOTE: These experiences may be started and/or completed as part of the high school experience.				
Certificates	Artificial Insemination    Veterinary Assistant    OSHA CareerSafe			<p><b>Career Options:</b> Zoo Keeper    Certified Veterinary Assistant</p>	
	NOTE: Certificates and licensure may be earned while in high school and may lead to a Performance Acknowledgement.				
Postsecondary	Associate Degrees	<a href="#">Biochemistry Technician</a>	<a href="#">Registered Veterinary Technician</a> <a href="#">Tissue Culture Technician</a>	<a href="#">Veterinary Laboratory Technician</a>	<p><b>Career Options:</b> Animal Caretaker Supervisor    Laboratory Technician Registered Veterinary Technician</p> <p><b>Career Options:</b> Research Nutritionist    Ornithologist Agricultural Researcher    Mammologist</p> <p><b>Career Options:</b> Licensed Veterinarian    Research Facility Manager Veterinary Surgeon    Veterinary Livestock Inspector</p>
	Bachelor Degrees	Animal Science Biochemistry	Biomedical Science Equine Studies	Histotechnologist Microbiology	
	Graduate Degrees	Veterinary Anatomy Veterinary Pathology	Doctor of Veterinary Medicine with a specialization in: Companion Animal, Equine Practitioner Laboratory Animal		

### COLLEGE CREDIT OPPORTUNITIES -- High School

Students should take Advanced Placement (AP), International Baccalaureate (IB), dual credit, Advanced Technical Credit (ATC), or locally articulated courses (Tech Prep), if possible. List those courses that count for college credit on your campus.

This program of study (POS) serves as a guide, along with other college and career planning materials, for pursuing college and career goals. POS developed 2017. A Business & Industry endorsement as defined in 19 TAC 74.13(f)(2)(A) requires a coherent sequence of courses for four or more credits in career and technical education (CTE) that consists of at least two courses in the least one advanced CTE same career cluster, including at course, which includes any course that is the third or higher course in a sequence. The final courses in the sequence must be obtained from one of the Agriculture, Food and Natural Resources career cluster.