



Animal Systems



Course Overview: Focuses on careers in the planning, implementation, production, management, processing, and/or marketing of agricultural commodities and services.

Career Goal (O*NET Code): **Animal Nutritionist** (19-1011), Livestock Producer (45-2021), Large Animal Caretaker (45-2093).

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	HS Courses:	Algebra I Art I Health	Spanish I Touch Systems Data Entry	<p>Curricular Experiences: Texas FFA Association</p> <p>Career Learning Experiences: Career Preparation Internship Job Shadowing</p> <p>Extracurricular Experiences: Farm Bureau Exchange Programs Language Immersion Programs Livestock Exhibition School Newspaper Student Government UIL Academic Competitions Yearbook</p> <p>Service Learning Experiences: Animal Rescue Boy/Girl Scouts Children's Barnyard Community Service Volunteer Peer Mentoring / Peer Tutoring Petting Zoos</p>
	High School	9th	Core Courses:	English I Algebra I or Geometry Biology	
Career-Related Electives:			Principles of Agriculture, Food and Natural Resources		
10th		Core Courses:	English II Geometry or Alg II IPC or Chemistry	World History Languages other than English II	
		Career-Related Electives:	Livestock Production and Vet Med Applications		
11th	Core Courses:	English III Algebra II, Math Models, or Pre-Cal Physics	United States History Languages other than English III		
	Career-Related Electives:	Small Animal Management & Equine Science Medical Terminology Medical Microbiology			
12th	Core Courses:	English IV Alg II, Pre-Calculus, AP Calculus Science Elective	Government/Economics Fine Arts Languages other than English IV		
	Career-Related Electives:	Advanced Animal Science Stats & Business Decision Making Practicum in Ag, Food & Natural Resources			
Postsecondary	Practicum and/or Work-Based Experiences	Feedlot Employee NRCS Employee	Pet Store Employee Ranch Employee	Stable Employee Wildlife Center Employee	<p>Professional Associations: Alpha Tau Alpha American Society of Animal Science Block & Bridle Club Collegiate FFA Gamma Sigma Delta Post-Secondary Agricultural Students Association</p>
	Certificates	Artificial Insemination OSHA CareerSafe	Quality Beef Producer	Tractor and Machinery Operator	
	Associate Degrees	Agricultural Systems Management	Agricultural Technician	Ranch and Feedlot Operations	
	Bachelor Degrees	Agricultural Educator Animal Science	Physiology of Reproduction	Range Management	
Graduate Degrees	Animal Science	Beef Cattle Management	Range Animal Science	<p>Career Options: Agricultural Product Sales Feedlot Management Livestock Facilities Consultant Livestock Sales Research Assistant Agricultural Consultant Ranch Manager Texas Cooperative Extension Agent</p>	

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.