



Agribusiness 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): Farm Manager, Agricultural Crop (11-9011), Agricultural Technician (19-4011).

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: Agriscience Fair Farm Bureau Exchange Programs Language Immersion Programs School Newspaper Student Government Texas Cooperative Extension Field Days UIL Academic Competitions</p> <p>Service Learning Experiences: Boy/Girl Scouts Community Gardens Community Service Volunteer Crop Demonstration Plots Habitat for Humanity Landscaping/Lawn Care</p>	
High School	9th	Core Courses:	English I Algebra I or Geometry Biology	World Geography Languages other than English I Physical Education		
		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 (AGAH1353 & AGAH2313)			
	11th	Core Courses:	English III Algebra II, Math Models, or Pre-Cal Physics	United States History Languages other than English III		
Career-Related Electives:		Wildlife & Recreational Management Professional Communications & Equine Science				
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 Plant & Soil Science Advanced Animal Science Stats & Business Decision Making Practicum in Ag, Food & Natural Resources				
Practicum and/or Work-Based Experiences	Boll-Weevil Eradication Crop Consulting Employee		Farm Equipment Operator Foundation Employee Grain Elevator Employee	Insect Scout Landscape Technician NRCS Trainee		<p>COLLEGE CREDIT OPPORTUNITIES -- High School</p> <p>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.</p> <p>Professional Associations: American Society of Agronomy Collegiate FFA National Alliance of Independent Crop Consultants Post-Secondary Agricultural Students Association Students of Agronomy, Soils and Environmental Sciences</p>
	NOTE: These experiences may be started and/or completed as part of the high school experience.					
Certificates	Commercial or Non-commercial Pesticide Applicator		Crop Adviser Private Pesticide Applicator	Master Gardener Nursery Professional OSHA CareerSafe		
	NOTE: Certificates and licensure may be earned while in high school and may lead to a Performance Acknowledgement.					
Postsecondary	Associate Degrees	Agricultural Business	Farm and Ranch Management	Horticulture and Crop Science	<p>Career Options: Farm/Ranch Manager Environmental Technician Landscape Technician</p>	
	Bachelor Degrees	Agronomy Entomology Integrated Pest Management	Plant Science Plant & Environmental Soil Science	Soil Science Soil & Crop Science Weed Science	<p>Career Options: Certified Crop Adviser Agricultural Researcher Ag. Cooperative Manager Chemical Salesperson Cooperative Extension Agent</p>	
	Graduate Degrees	Agronomy Plant Biotechnology	Plant Breeding Plant Pathology	Plant Protection Soil Science	<p>Career Options: Soil Scientist Plant Scientist Plant Breeder Range Scientist Research Facility Manager</p>	

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.