Agr Foo Nat
Res

Agriculture, Food & Natural Resources

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

Environmental Systems Pathway

TEXAS CTE

Date: ____

commodities and resources.			Career Goal (O*NET Code): Water Environment Manager (11-9199), Waste Water		School: Mabank High School Grade: ☐ 9th ☐ 10th ☐ 11th ☐ 12th ☐ AR			
			Manager(11-9199), Water Quality Manag		Primary Endorsement: Busi	iness & Industry Additional Endor	rsements: Arts & Humanities Public Service	☐ Multidisciplinary☐ STEM
					Parent's Signature:	Studen	t's Signature	
			SUGGESTED COURSEWO	ORK		EXTENDED LEARNING	EXPERIENCES	
Middle School	8th	HS Courses:	Algebra I Art I Health	Spanish I Touch Systems Data Entry	Curricular Experiences: Texas FFA Association		Extracurricular Experiences: Agriscience Fair Farm Bureau Exchange Programs	
High School	9th	Core Courses:	English I Algebra I or Geometry Biology	World Geography Languages other than English I Physical Education			School Newspaper Student Government UIL Academic Competitions Yearbook	
		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 Learning Experiences: Apprenticeship Career Preparation	s:	Service Learning Experiences: Adopt a Highway Adopt a Beach	
		Career-Related Electives:	Wildlife, Fisheries & Ecology Manageme	nt	Career Preparation Internship Job Shadowing		Boy/Girl Scouts Campus Service Organizations	
	12th 11th	Core Courses:	English III Algebra II, Math Models, or Pre-Cal	United States History Languages other than English III			Community Service Volunteer Peer Mentoring/Peer Tutoring	
		Career-Related Electives:	Aquatic Science & Practicum in Ag, Food & Natural Resources (Internship Only) or Project Based Research I		COLLEGE CREDIT OPPORTUNITIES High School			
		Core Courses:	English IV Alg II, Pre-Calculus, AP Calculus	Government/Economics Fine Arts Languages other than English IV	•	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.		
		Career-Related Electives:	Practicum in Ag Food & Natural Resources II (Internship Only) or					
	Practicum and/or Work-Based Experiences	Community Water System Municipal Water Departme	* * Rural Water Supply Technician	Water Well Driller's Helper			Professional Associations: Collegiate FFA	
	Pra Wo	NOTE: These experiences may be started and/or completed as part of the high school experience.						
	Certificates	Wastewater Collections, Class I Water Operators, Class D OSHA CareerSafe			Career Options:			
		NOTE: Certificates and lic	ensure may be earned while in high school and may le	ad to a Performance Acknowledgement.	Career Options:			
Postsecondary	Associate Degrees				NRCS Technician			
	Bachelor Degrees	Agricultural & Bio En Agricultural Systems Management	ngineering Environmental Systems Integrated Resource Managen	Wind Energy nent	Career Options: Agricultural Researcher Agricultural Systems Manager	NRCS Specialist Resource Manager TCE Agent		
	Graduate Degrees	Bioenvironmental Sci Environmental Studie		Wind Science and Engineering	Career Options: Education Specialist NRCS Lead Researcher	Research Developer TCE Specialist		

Student's Name:

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.