riculture, Food &		lture, Food & ttural Resources	Power, Structural and Technical Systems				
<i>Course Overview:</i> Focuses on careers in the planning, implementation, production, management, processing, and/or marketing of agricultural commodities and services.			<i>Career Goal (O*NET Code):</i> Welder and Cutter (51-4121.02), Agricultural Engineer (17-2021), Welder-Fitter (51-4121.03).	Student Name: Grade: School:			
			SUGGESTED COURSEWORK	EXTENDED LEARNING EXPERIENCES			
Middle School	8th	HS Courses:		Curricular Experiences: Skills USA Texas FFA Association		<i>Extracurricular Experiences:</i> Agricultural Mechanics Exhibition Agriscience Fair	
High School	9th	Core Courses:	English IWorld GeographyProfessional CommunicationsAlgebra IPhysical EducationBiologyLanguages other than English I			Farm Bureau Exchange Programs National Engineering Design Competition Student Government UIL Academic Competitions	
		Career-Related Electives:	Principles of Agriculture, Food and Natural Resources				
	.0th	Core Courses:	English IIWorld HistoryGeometryLanguages other than English IIChemistryChemistry	<i>Career Learning Experiences:</i> Apprenticeship		Service Learning Experiences: Boy/ Girl Scouts	
	1(Career-Related Electives:	Introduction to Metal Working	Career Preparation Internship Job Shadowing		Campus Service Organizations Community Service Volunteer 4-H	
	1th	Core Courses:	English III United States History Algebra II Physics		1	Habitat for Humanity Peer Mentoring / Peer Tutoring	
	I	Career-Related Electives:	Advanced Welding or Mathematical Applications in Agriculture or Food and Natural Resources	COLLE	i EGE CREDIT OPPORTUNI	NITIES High School	
	12th	Core Courses:	English IVGovernment/EconomicsPrecalculusFine ArtsAP Environmental ScienceFine Arts	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.			
	1	Career-Related Electives:	Agricultural Science Internship/Mentorship or Advanced Precision Metal Manufacturing				
	On-the-Job Training	Metal Erector's Helper	r Shop Helper Welding Assistant			Professional Associations: American Society of Agricultural and Biological Engineers	
	u OII	OTE: These experiences may be started and/or completed as part of the high school experience.				American Welding Society	
	Certificates	AWS Welder NCCER Welding Technician OSHA CareerSafe NOTE: Students may earn all or part of these certificates as part of the high school experience.			e Sensing Specialist y Assurance Manager	Associated General Contractors of America <u>ASTM International</u> <u>Collegiate FFA</u> Post-Secondary Agricultural Students Association	
Postsecondary	Associate Degrees		<u>Construction Technician</u> <u>Metal Technology</u>	<i>Career Options:</i> Welder Estimat Foreman	tor	<u>r ost becondary Agricultural Students Association</u>	
	Bachelor Degrees	Agricultural Engineer	ing Agricultural Systems Management Construction Science	Site Manager Extensi	ltural Engineer ion Engineering Specialist t Engineer		
	Graduate Degrees	Agricultural & Biolog Engineering	ical Agricultural Mechanization	<i>Career Options:</i> Project Developer Risk M	Ianagement Specialist		
	Student	s may select other elective cou	irses for personal enrichment purposes.	This plan of study serves as a guide, along with other car plans meet high school graduation requirements as well a		areer path and is based on the most recent information as of 2009. All	