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Course Overview: Planning, managing, and performing the processing of materials into intermediate or final products and related professional and technical support activities.

## **Production**

Career Goal (O\*NET Code): Precision Metal Production (51-4041), Welder, Cutters, Solderers and Brazers (51-4121), Machine Operator (51-4081), Inspector, Testers, Sorters, Samplers (51-9061).

Student Name:	
Grade:	
School:	

	SUGGESTED COURSEWORK				EXTENDED LEARNING EXPERIENCES		
le ol					Curricular Experiences:		Extracurricular Experiences:
Middle School	8th	HS Courses:			BEST Robotics, Inc		Language Immersion Programs
M Sc	3				FIRST High School Robotics	Competition	National Engineering Design Competition
School			English I Worl	d Geography Professional Communications	<u>SkillsUSA</u>	<u> </u>	Odyssey of the Mind
		Core Courses:	Algebra I Physi	ical Education	Technology Student Associati	<u>on</u>	School Newspaper
	9th		Biology Lang	guages other than English I			Student Government
	6	Career-Related			1 1 1		UIL Academic Competitions
	10th	Electives:	Principles of Manufacturing				Yearbook
			English II	World History			
		Core Courses:	Geometry	Languages other than English II	Career Learning Experiences	s:	Service Learning Experiences:
			Chemistry		Apprenticeship		Boy Scouts of America
		Career-Related	Total Latin And Adams I Was a Line		Career Preparation		Campus Service Organizations
[C]		Electives:	Intriduction to Metal Working		Internship		Community Service Volunteer
High S			English III	United States History	Job Shadowing		Girl Scouts of the USA
	1th	Core Courses:	Algebra II				Habitat for Humanity Peer Mentoring / Peer Tutoring
			Physics or PT				reel Mentoring / reel Tutoring
	1	Career-Related	Advanced Welding or Advanced Tech	nology and Manufacturing Academy			
		Electives:  Advanced Welding or Advanced Technology and Manufacturing Academy		COLLEGE CREDIT OPPORTUNITIES High School			
			English IV	Government/Economics			3), dual credit, Advanced Technical Credit (ATC), or locally
		Core Courses: Precalculus	Precalculus	Fine Arts	articulated courses (Tech Prep), if possible. List those courses that count for college credit on your campus.		
	2th		Engineering Design and Problem Solvi	ing			
	J	Career-Related	Advanced Precision Metal Manufactur	ing or Advanced Technology and Manufacturing			
	Electives: Academy or Career Preparation						
	On-the-Job Training	<u>ĕ</u> 0	Machinist Assistant			Professional Associations:	
		Drafting/CADD Assis	Production Associate	Shop Helper			American Iron & Steel Institute
							American Machine Tool Distributors Association
	0	NOTE: These experiences may be started and/or completed as part of the high school experience.				American Society for Nondestructive Testing	
	ıtes	NCCER Welder/Ironw	voker/Core Drafting		Career Options:		American Society for Testing and Materials
	IJ	Safety	Machine Operator	OSHA CareerSafe	Assembler	Machine Operator	American Welding Society
	- E	AWS Entry Level Welder  NOTE: Students may earn all or part of these certificates as part of the high school experience.				Composites Fabricators Association National Association of Manufacturers	
		Industrial Equipment		•	Career Options:		National Tooling & Machining Association
1	Associate Degrees	and Repairers	Technologies	<u>Welder</u>	Precision Layout Worker		Precision Metalforming Association
ırı		Industrial Production	reemologies		Solder and Brazier	Welder	Society of Plastics Engineers
qa	As D	industrial i roddetron					Society of Manufacturing Engineers
Postsecondary	Bachelor Degrees				Career Options:		
		Technology Managem	nent Design Technology	Industrial Technology	Calibration Technician	Electromechanical Technician	
	Bac Deg	2, 8	5	C)			
					Career Options:		
	Graduate Degrees	Engineering Technolo	gy Design Technology	Industrial Safety	Production Manager	Industrial & Manufacturing	
	Gra De			•		Engineer	
		I			•		

plans meet high school graduation requirements as well as college entrance requirements.