Program of Study

Career Field: Industrial, Manufacturing, and Engineering Systems

Career Cluster: Manufacturing

Career Pathway: Production

Central Community College

DEGREE:

Machine Tool Technology

	GRADE	ENGLISH	MATH	SCIENCE	SOCIAL STUDIES	GENERAL ELECTIVES	PATHWAY ELECTIVE COURSES	EXTENDED LEARNING SCHOOL/COMMUNITY
HIGH SCHOOL	9	English/Language Arts I	Algebra I	Physical Science	Geography	World Languages and Cultures Physical Education Health Education Entrepreneurship Information Technology App. I Automotive Mechanics Cabinetmaking Programming I Electroncis Welding	Intro to Manufacturing/Mechatronics Manufacturing Woods Manufacturing Metals	*School Activities:* SkillsUSA, OPPD/NPPD Power Drive, FFA, Math Club, MATHCOUNTS *Community Activities:* Learn to repair machinery, Learn to use the latest tools for home repair, Tour a factory, Part time employment available within this career cluster, Internships available within this career cluster
	10	English/Language Arts II	Geometry	Biology	World History			
	11	English/Language Arts III	Algebra II	Chemistry	American History			
	12	English/Language Arts IV	Intro to Statistics Descrete Math Pre-Calc	Physics	American Government or Economcis			

		COMMUNICATIONS	MATH/ SCIENCE	PERSONAL DEVELOPMENT	SOCIAL/ BEHAVIORAL SCIENCES	ENDORSEMENT OPTION: SELECT 1	MAJOR COURSES				
CENTRAL COMMUNITY COLLEGE	13 and 14	Select 3 hours from the following: Applied Writing Business Comm Public Speaking	Select 3 hours from the following: Occupational Math Business Math Technical Math	Nutrition	Select 3 hours from the following: American Government Microeconomics Human Relations Economic Understanding	Advanced CNC Applications	Basic Engine Lathe I	Basic Milling Machine Work I	Heat Treat & Metallurgy	Computer Numerical Control Lathe	CAD/CAM Operations
						Plastic Mold Making	Computer Numerical Control Mill	Blueprint Read for Industry	Instruments & Measurements	Fundamentals of Design	CNC Sinker EDM Technology
						Tool & Die	CNC Wire EDM Technology	Intro to AutoCAD			