Machine and Forming Technology



Description of Pathway:

The Manufacturing and Product Development pathways emphasize real-world, occupationally relevant experiences. This industry sector is an important part of California's economy producing a wide range of products.

District: Livermore Valley Joint Unified School District School Site: Livermore and Granada

LEVELS	GRADE	English/ Language Arts	Math	Science	Social Studies	Career Technical Education Courses	Other Required Courses or Recommended Electives	Related Occupations, Certifications, and Student Clubs	
								Occupations Requiring less than a Baccalaureate	
SECONDARY	9	English	Algebra, Geometry,	Earth Science or Forensic Science	Social Science 9	Manufacturing, Metals Industry 1-2 Manufacturing & Product Development 1	Physical Education, Health, World Language	Degree	
	10	English 10/Honors	Geometry or Algebra II	Biology	World History or AP World History	Manuf, Metal Indus 3-4 Manuf & Prod Dev 2	Physical Education, World Language, VPA or CADD	 Machine Operator Installation Apprentice Assembler Occupations Requiring a Baccalaureate Degree 	
	11	English 11/Honors	Algebra II, Adv Algebra or Pre-Calclus	Chemistry	U.S. History, Honors U.S. History, or AP U.S. History	Manuf, Metal Indus 5-6	Welding, World Language, or VPA		
	12	English Composition or other English Electives	Pre-Calculus, Calculus, AP Calculus, or Statistics	Conceptual Physics or Physics	Civics/Economic or AP Civics/Economics	Manuf, Metal Indus 7-8	Robotics, World Language or VPA	 Manufacturing Engineer Mechanical Engineer Design Engineer Industrial Technology Educator Teacher 	
*Arti	culated D			3		poses. <i>Italicized</i> courses a		Industry recognized	
POSTSECONDARY	Year 13	English	Geometry	Chemistry, Physics, or Astronomy	Humanities	WLDT 60A or 61AL	GE req.	Certifications related to this Pathway	
	Year 14			Geology	Liberal Studies	WELD 62A, 62AL, 70 PHYS 10	Other GE req.	Teaching CredentialAS/Cert Vacuum Technology	
	Year 15						Upper Division Core	AS/Cert Welding TechnologyIndustrial Electrician Cert	
	Year 16						Upper Division Core	Student Clubs or Organizations	

Work-Based Learning Opportunities										
➤ Job-Shadows	Internships	Teacher's Aide	JA Mentor	>						