CareerClusters™ PATHWAYS TO COLLEGE & CAREER READINESS
Manufacturing

Learning that works for South Dakota CTE™

State Approved Courses for Manufacturing Programs School Year 2019-20

	Production Pathway	Manufacturing Production Process Development Pathway	Maintenance, Installation & Repair Pathway	Quality Assurance Pathway	Logistics & Inventory Control Pathway	Health, Safety & Environmental Assurance Pathway
Foundational CTE Courses	Career Exploration (22151) Foundations of Technology (10004^) Employability Skills (22152^) Leadership and Service (22101^) Entrepreneurship (12053^)					
Cluster Courses	Introduction to Manufacturing (13001) Intro to Technical Education (21051) Electronics (17106) Introduction to Drafting & Design (21102) MS Intro to STEM (21050) MS Mechatronics/Robotics (21049)					
Pathway Courses	Machine Tool Technology (13203) >>>>>>>>>>>>>>>>>>>>>>>>> Advanced Machine Tool Technology (13204) >>>>>>>>>>>>>>>> Welding Technology (13207) >>>>>>>>>>>>>>>>>>>>>>>>>>>> Advanced Welding Technology (13208) >>>>>>>>>>>>>>>>>>> Robotics (21009) >>					
	Introduction to Engineering (21001) Engineering Design & Development (21007) Mechanical Drafting & Design (21106)		Introduction to Engineering (21001) Engineering Design & Development (21007) Mechanical Drafting & Design (21106)			
Dual Credit Courses	Visit www.sdmylife.com for a full list of dual credit courses in the Manufacturing Career Cluster.					
Academic Courses	Geometry (02072^) Pre-Calculus (02110) Physics (03151^)					
Capstone Courses	Entrepreneurship Experience (80026) Senior Experience (80019^) Service Learning (22104) Youth Internships (80018^)					

Approved SD CTE Course Options for 2019-20

^Denotes course is available on the SD Virtual School (http://www.sdvs.k12.sd.us/)