



Foundational CTE Courses

Career Exploration (22151^[^]) Employability (22152^[^]) Workplace Technology Skills (10004^[^]) Leadership & Service (22101^[^])

Cluster Courses

Introduction to Manufacturing (13001) Introduction to Technical Education (21051) Electronics (17106)
Drafting and Design I (21102) Exploring STEM in CTE (21050) MS Robotics (21049)

Pathway Courses

Welding Pathway	Precision Machining Pathway	Design & Engineering Pathway	Automation Pathway
Welding Technology (13207)	Machine Tool Technology (13203)	Introduction to Engineering (21001)	Robotics (21009)
Advanced Welding Technology (13208)	Advanced Machine Tool Technology (13204)	Engineering Design & Development (21007)	Welding Technology (13207) Advanced Welding Technology (13208)
Ag Metal Fabrication (18404)	Introduction to Manufacturing (13001)	Mechanical Drafting & Design (21106)	Machine Tool Technology (13203)
Introduction to Manufacturing (13001)			Advanced Machine Tool Technology (13204)

Dual Credit Courses

Visit <https://sdmylife.com/images/Approved-CTE-Dual-Credit.pdf> for a full list of dual credit courses in the Manufacturing Career Cluster.

Supporting Academic Courses

Geometry (02072^[^]) Pre-Calculus (02110^[^]) Physics (03151^[^])

Capstone CTE Courses

Entrepreneurship Experience (80026) Senior Experience (80019^[^]) Youth Apprenticeship (80020) Service Learning (22104) Youth Internships (80018^[^])

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