

MANUFACTURING CAREER CLUSTER

Preparations that can add this Endorsement:

Preparation	Pedagogy		CTE Methods		Test		Coursework		Other
Early Childhood	X	AND	X	AND	X	OR	X	OR	X
Elementary	X	AND	X	AND	X	OR	X	OR	X
Secondary			X	AND	X	OR	X	OR	X
CTE					X	OR	X	OR	X
K-12			X	AND	X	OR	X	OR	X
Early Childhood SPED	X	AND	X	AND	X	OR	X	OR	X
K-12 SPED			X	AND	X	OR	X	OR	X

State-Designated Pedagogy Requirements:

Test #	Test Name	Cut Score	Effective Date
5624	Principles of Learning and Teaching (7-12 PLT)	157	07/01/2012
Waiver of Pedagogy Test			7-12 PLT
The PLT test may be waived if verification of two or more years of state-certified teaching experience in the grade span of the endorsement is documented.			Experience in a 5-12 grade span

State-Designated Test Requirements (passage of one test):

Test #	Test Name	Cut Score	Effective Date
5479	NOCTI Welding	55.1	5/15/2025
5176	NOCTI Precision Machining	82.9	5/15/2017
5051	PRAXIS Technology Education	154	07/14/2014
5053	PRAXIS Technology and Engineering Education	157	09/01/2024

Coursework Requirements:

15 Semester hours of coursework	
• 1 or more credits in sheet metal fabrication	
• 1 or more credits in assembly	
• 1 or more credits in blueprints	
• 1 or more credits in mathematics	

Other Requirements:

OTHER	
• Associate's degree	• Manufacturing

Assignment Codes:

Code	Assignment Description	Code	Assignment Description
02993	Mathematics – Test Preparation	22054	Tutoring (By Students)
10004	Workplace Technology Skills	22101	Leadership and Service
13001	Intro to Manufacturing	22104	Service Learning
13203	Machine Tool Technology	22106	Freshman Seminar
13204	Advanced Machine Tooling Technology	22110	AP Seminar
13207	Welding Technology	22151	Career Exploration
13208	Advanced Welding Technology	22152	Employability
17106	Electronics	22250	Exploratory
18404	Ag Metal Fabrication	22990	JAG – Middle School
21049	MS Robotics	22991	JAG – High School
21009	Robotics	25013	Life Management

21051	Introduction to Technology Education	80018	Youth Internships
21102	Drafting and Design I	80019	Senior Experience
21106	Mechanical Drafting & Design	80026	Entrepreneurship Experience
22001	Standardized Test Preparation	80020	Youth Apprenticeship
22004	Dropout Prevention	80033	E-Mentor (certified staff)
22051	Office Aide (By Students)		