Manufacturing Pathway

CIP CODE 48.0000

INTRODUCTORY LEVEL

Title	Code	Credit	Special Considerations
Introduction to Welding	13207	0.5	Production strand only.
Production Print Reading I	21108	0.5	
Introduction to Skilled Trades	38001	0.5	

TECHNICAL LEVEL

Title	Code	Credit	Special Considerations
Agricultural Welding I	18404	1	Choose 18404 or 39207, not both.
Robotics I	21009	1	
Welding Processes I	39207	1	Choose 18404 or 39207, not both.
Hand & Power Tools	40400	0.5	

Production Strand

Title	Code	Credit	Special Considerations
Production Methods I	13052	1	
Machine Tool Technology	13203	1	
Computer-Aided Machining (CAM) I	13204	1	
Drafting/CAD	21107	1	
Production Print Reading II	39108	0.5	Prerequisite course required; see competency profile.

Maintenance Strand

Title	Code	Credit	Special Considerations
Mechanical Power Transmission Systems	13302	0.5	
Foundations of Electronics	21201	1	

APPLICATION LEVEL

Title	Code	Credit	Special Considerations
Work Experience in Manufacturing	13348	0.5	
Work Experience in Manufacturing – Comprehensive	13998	1	
Agricultural Welding II	18407	1	Choose 18407 or 39208, not both. Prerequisite course required; see competency profile.
Welding Processes II	39208	1	Choose 18407 or 39208, not both. Prerequisite course required; see competency profile.

APPROVED PATHWAY:

1. Includes a minimum of three secondary-level credits.
2. Includes a work-based element.
3. Consist of a sequence:
   a. Introductory-level course.
   b. Technical-level course.
   c. Application-level course.
4. Supporting documentation includes:
   a. Articulation Agreement(s).
   b. Certification.
   c. Program Improvement Plan.
   d. Program of Study.
5. Technical-level and Application-level courses receive .5 state weighted funding in an approved CTE pathway.

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Production Strand

Title	Code	Credit	Special Considerations
Advanced Drafting/CAD	21150	1	Prerequisite course required; see competency profile.
Advanced Materials & Fabrication	38010	1	Prerequisite course required; see competency profile.
Automated Integrated Systems	39010	0.5	Prerequisite course required; see competency profile.
Production Methods II	39052	1	Prerequisite course required; see competency profile.
Computer-Aided Machining (CAM) II	39205	0.5	Prerequisite course required; see competency profile.

Maintenance Strand

Title	Code	Credit	Special Considerations
Sheet Metal Technology	13205	0.5	
Remodeling & Building Maintenance	17009	0.5	
HVAC Technology	17056	0.5	
Plumbing Technology	17058	0.5	
Electrical Technology	17113	0.5	
Digital Electronics	21008	1	
Hydraulics & Pneumatics	39302	0.5	Prerequisite course required; see competency profile.

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3. Consist of a sequence:
   a. Introductory-level course.
   b. Technical-level course.
   c. Application-level course.
4. Supporting documentation includes:
   a. Articulation Agreement(s).
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5. Technical-level and Application-level courses receive .5 state weighted funding in an approved CTE pathway.