

What is the Manufacturing Pathway?

The Manufacturing Pathway refers to career fields related to planning, managing and performing the processing of materials into intermediate or final products. This includes programs of study on subjects such as:

- Designing, installing, and repairing products such as cars, appliances, airplanes, or electronic devices.

What careers are in the Advanced Manufacturing Career Pathway?

[Advanced Manufacturing Career Pathway](#)
[MadREP Region 2023-2025](#)

High School Diploma
Engine & Machine Assembler Home Appliance Repairer Machine Operator Metal Pourers and Casters Etcher and Engraver Team Assembler Installer Painter Locksmith

Tech College Certificate or Associate's Degree
Aerospace Engineering Technician Electrician Industrial Engineering Technician Mechanical Drafter Nuclear Technician Robotics Technician Welder

Bachelor's Degree and Above (4+ years of study)
Occupational Health and Safety Inspector Production Supervisor

*This document is subject to change.

*This document is not a complete list.

Graduation Requirements

Math

Algebra I
Geometry
Algebra II

*3 Total Credits

English

English 9
English 10
English 11
Senior English

*4 Total Credits

Social Studies

Western Civ
U.S History
Choices in AM
Dem

*3 Total Credits

Science

Intro to Physics
Biology
Chemistry

*3 Total Credits

Other

Health
(Financial Literacy
.5 Total Credits)
(Physical Education
1.5 Total Credits)

25 Total Credits Needed to Graduate

9th Grade

Possible Electives

Woods Manufacturing
CADD Inventor
Advanced CADD
Metal Manufacturing
Process
Entrepreneurship

10th Grade

Possible Electives

Woods Manufacturing
CADD Inventor
Advanced CADD
Metal Manufacturing
Process
Entrepreneurship

11th Grade

Possible Electives

Woods Manufacturing
CADD Inventor
Advanced CADD
Metal Manufacturing
Process
Welding 1 (DC)
Welding 2 (DC)
Advanced Metals
Manufacturing (DC)
Math for Trades
Entrepreneurship

12th Grade

Possible Electives

CADD Inventor
Advanced CADD
Metal Manufacturing
Process
Welding 1 (DC)
Welding 2 (DC)
Advanced Metals
Manufacturing (DC)
Math for Trades
Entrepreneurship