

Career Pathway: Manufacturing



Mad River Middle School

7th Grade

Supporting Courses: Design & Modeling, Robotics & Automation

8th Grade

Supporting Courses: Flight & Space, Green Architecture

Stebbins High School

9th grade

Required Courses: Algebra 1, English 101, Physical Science, World Studies, Health, PE,

Art I

Supporting Courses: Computer Applications I, Foreign Language, Manufacturing Foundations

10th grade

Required Courses: Geometry, English 201, Biology, American History, Art II

Supporting Courses: Manufacturing Specialization, Computer Applications II, Foreign Language,

Textile Design

11th grade

Required Courses: Algebra II, Chemistry, English 301, American Government,

Supporting Courses: Textile Design (Construction & Maintenance),

Concentrator Courses: Machining with Industrial Lathes, Machining with Industrial Milling Machines

12th grade

Required Courses: English 401, Applied Mathematics or Statistics

Supporting Courses: Advanced Science, Social Studies Elective

Completer Courses: Machine Tools, Computer Numerical Control Technology with Industrial Mills and

Lathes

College Credit Plus

- *10-Hour OSHA, +Guitar Manufacturing using STEM, *Intro to Manufacturing Safety, Practices &
- *Measurements, +Manufacturing Process, +Maintenance Awareness

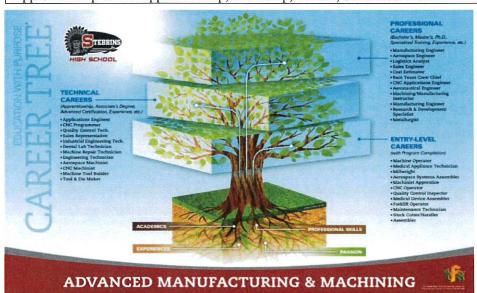
(Concurrent enrollment courses * Juniors, + Seniors)

Industry-Recognized Credentials

OSHA 10-Hour, Forklift, MSSC Certified Production Technician,

Work-Based Learning

Apprenticeship & Pre-Apprenticeship, Internship, Virtual, Simulated Work Environment



This pathway layout is meant to serve as a guide; for your specific graduation plans please schedule a meeting with your counselor.

Manufacturing Curriculum Plan WebXam (Technical Skill Attainment)

Area of Concentration: R7

Below is the list of WebXams required for state reporting:

Test	Grade	Test Name	Is there a CTAG
			awarded to this course.
176005	11	Machining with Industrial Lathes	No
176006	11	Machining with Industrial Milling Machines	No
176004	12	Machine Tools	No
176007	12	Computer Numerical Control Technology with Industrial	No
		Mills & Lathes	

Industry Credentials/Certifications

Industry Credentials offered	Completed during Grade
Occupational Safety and Health Administration (OSHA) 10-hour	11
Forklift	12
MSSC (CPT) Manufacturing Safety	11
MSSC (CPT) Practices & Measurement for Manufacturing	11
MSSC (CPT) Manufacturing Process & Production	12
MSSC (CPT) Maintenance Awareness for Manufacturing	12

College Courses are available through: Sinclair

2	11
2	11
2	11
2	12
1	11
3	12
	2 2 2 2 1 3

Sinclair Short Term Certificates

Short Term Certificate	College hours completed in Career Tech	College Hours required
Certified Production Technician	8	8

Daily Schedule

Junior Year	ar 2 periods (Machining with Lathes, Machining with Milling Machines)	
Senior Year	3 periods (Machine Tools, CNC with Mills & Lathes, Capstone)	