

# Middle School Manufacturing Technologies Courses

		Curriculum Code/Hours		
Subject Code	Course Title	VT	V3	VM
Engineering and Design (F6)				
175015	Pre-Engineering Technologies			30-120
175003	Manufacturing Operations	120-280	60	30-120

Curriculum Code	Grades	CT Funded	Assessment	Counts toward Concentrator
VT	7-12	Yes	Required	Yes
V3	7-12	Yes	Not required	No
VM	7-9	Yes	Not required	No

- Career-Technical Middle School Courses require schools to complete a CTE-26 and program of study\*.
- Students enrolled in Career-Technical Middle School Courses (VT, VM) are eligible for participation in Career-technical Student Organizations (CTSO).
- Granting High School credit for Career-Technical Middle School Course high school courses is a local school district decision.
- VM Courses do not count towards four course minimum.

\*If you have a 7-12 grade building with a current CTE26 on file, no additional CTE26 is required, unless you add a new program to that building IRN.

**Manufacturing Operations**

Subject Code: 175003

Students will learn the production processes applied across manufacturing operations. Students will be able to demonstrate a broad array of technical skills with an emphasis given to quality practices, measurement, maintenance and safety.

**Pre-Engineering Technologies**

Subject Code: 175015

Students in the pre-engineering programs acquire knowledge and skills in problem solving, teamwork and innovation. Students explore STEM careers as they participate in a project-based learning process, designed to challenge and engage the natural curiosity and imagination of middle school students. Teams design and test their ideas using modeling, automation, robotics, mechanical and computer control systems, while exploring energy and the environment.