Curriculum Plan 2025-2026

Program: Pre-Engineering

CTSO Primary: SkillsUSA 2   **CTSO Secondary:** N/A

Pathway: F6   **WebXam:** 26MC

Courses Offered

Level 1 Curriculum

Semester 1 Engineering Design

Semester 2 Manufacturing Operations

Level 2 Curriculum

Semester 1 Engineering Principles

Semester 2 Digital Electronics

Level 2-Pre-Internship Half Day Curriculum

Semester 1 Engineering Principles

College Credits Available

Name	College	Semester Hours Available
CTEGT002 Engineering Graphics, ODE Course 175001 (Engineering Design)	CTAG	3
CTMET004 Manufacturing Processes, ODE Course 175003 (Manufacturing Processes), EGR 1128 Robotics in Computer Integrated Manufacturing (CIM) Systems	CTAG and Sinclair College	3
CAM 1107 Principles of Manufacturing	Sinclair College	3
MET 1231 Introduction to Engineering Design Using 3D CAD	Sinclair College	4
MET 1401 Additive Design & Printing, ODE Course DC Electronic Circuits 175105	CTAG	4
MET 1131 PC Applications for Engineering Technology	Sinclair College	1
MET 1301 SolidWorks Basics	Sinclair College	4

Credentials Available

Name	ODE Points Available
Autodesk Inventor Certified User Certification	4
AutoCAD User	4
Ohio State Apprenticeship Council Recognized Pre-Apprenticeship Program Certificate of Completion - Engineering	12
Certified SolidWorks Associate (CSWA)	4