



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-School-to-Work 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 |