



## Curriculum Plan 2024-2025

**Program:** Robotics and Automation

**CTSO Primary:** SkillsUSA 2

**CTSO Secondary:** SkillsUSA 2

**Pathway:** F6

**WebXam:** 26MC

### Courses Offered

#### Level 1 Curriculum

Semester 1 Manufacturing Operations

Semester 2 Principles Of Manufacturing

#### Level 2 Curriculum

Semester 1 Engineering Principals

Semester 2 Industrial Robotics

#### Level 2-Pre-Apprenticeship 2 Week Rotation Curriculum

Semester 1 Pre Apprenticeship

Semester 2 Pre Apprenticeship

Semester 1 Engineering Principals

Semester 2 Engineering Principals

#### Level 2-Advanced Placement Curriculum

Semester 2 Engineering Capstone

### College Credits Available

| Name  | College          | Semester Hours Available |
|---|------------------|--------------------------|
| MET 1131 PC Applications for Engineering Technology | Sinclair College | 1                        |
| EGR 2252 Teach Pendant Robot Programming            | Sinclair College | 2                        |
| MET 1301 SolidWorks Basics                          | Sinclair College | 4                        |

### Credentials Available

| Name  | ODE Points Available |
|---|----------------------|
| Ohio Driver's License   | 1                    |
| Motoman FS100/DX100 Basic Programming w/Material Handling/Yaskawa FS100                           | 6                    |
| FANUC Handling Tool Operation & Programming   | 6                    |
| Allen Bradley PLC   | 6                    |
| Certified SolidWorks Associate (CSWA)   | 4                    |
| Ohio State Apprenticeship Council Recognized Pre-Apprenticeship Program Certificate of Completion | 12                   |