

Industry Credentials, Concentration Sequences, and Career Clusters

Mechatronics II (8555)

Industry Credentials:

These apply only to 36-week courses

- College and Work Readiness Assessment (CWRA+)
- Festo NC3 Introduction to Mechatronics STEM Lab Certification
- Festo NC3 Level 1: Fundamentals Certifications
- Manufacturing Specialist Certification Examination
- Manufacturing Technician Level 1 Certification Examination
- Manufacturing Technology Assessment
- Mechatronics Level 1 Assessment
- Mechatronics Systems Certification Examinations
- National Career Readiness Certificate Assessment
- Pre-Manufacturing Technician 1 (Pre-MT1) Examination
- Robotics Certification Examination
- Smart Automation Associate Examinations: Certified Industry 4.0 Associate–Advanced Operations
- Smart Automation Associate Examinations: Certified Industry 4.0 Associate–Basic Operations
- Smart Automation Associate Examinations: Certified Industry 4.0 Associate–IIoT, Networking & Data Analytics
- Smart Automation Associate Examinations: Certified Industry 4.0 Associate–Robot System Operations
- Workplace Readiness Skills for the Commonwealth Examination

Concentration Sequences:

*A combination of this course and those below, equivalent to two 36-week courses, is a **concentration sequence**. A **program completer** is a student who has met the requirements for a CTE concentration sequence and all other requirements for high school graduation or an approved alternative education program. Students wishing to complete a specialization may take additional courses based on their career pathways.*

- Mechatronics I

Career Clusters, Career Pathways, and Occupations:

- Manufacturing
 - Manufacturing Production Process Development
 - Electro-Mechanical Technician
 - Industrial Engineer
 - Industrial Engineering Technician
 - Manufacturing Systems Engineer
 - Production
 - Automated Manufacturing Technician
- Science, Technology, Engineering and Mathematics
 - Engineering and Technology
 - Electrical Engineering Technician
 - Electro-Mechanical Technician
 - Mechanical Engineer
 - Mechanical Engineering Technician