

Industry Credentials, Concentration Sequences, and Career Clusters

Technical Drawing and Design (8435, 8434)

Industry Credentials:

These apply only to 36-week courses.

- Autodesk Certified Professional Examinations
- Autodesk Certified User Examinations
- Certified SOLIDWORKS Associate (CSWA) Examination
- College and Work Readiness Assessment (CWRA+)
- Mechanical Apprentice Drafter Examination
- Mechanical Drafting and Design Assessment
- National Career Readiness Certificate Assessment
- 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.*

- Architectural Drawing and Design (8437/36 weeks)
- Architectural Drawing and Design (8492/18 weeks)
- Civil Engineering and Architecture (PLTW) (8430/36 weeks)
- Digital Electronics (PLTW) (8440/36 weeks)
- Digital Visualization (8459/36 weeks)
- Engineering Drawing and Design (8436/36 weeks)
- Engineering Drawing and Design (8493/18 weeks)
- Technology Foundations (8403/36 weeks)

Career Clusters, Career Pathways, and Occupations:

- Science, Technology, Engineering and Mathematics
 - Engineering and Technology
 - Aerospace Engineer
 - Aerospace Engineering Technician
 - Agricultural Engineer
 - Architect

- Assembler
- Biomedical Engineer
- Chemical Engineer
- Civil Engineer
- Civil Engineering Technician
- Commercial and Industrial Designer
- Computer Hardware Engineer
- Electrical Engineering Technician
- Electro-Mechanical Technician
- Electronics Engineering Technician
- Engineer
- Engineering Manager
- Engineering Technician
- Human Factors Engineer
- Industrial Engineer
- Industrial Engineering Technician
- Machine Setter, Operator
- Manufacturing Systems Engineer
- Marine Engineer
- Materials Engineer
- Mechanical Drafter
- Mechanical Engineer
- Mechanical Engineering Technician
- Power Systems Engineer