Industry Credentials, Concentration Sequences, and Career Clusters

Introduction to Technology and Engineering

8480 6 weeks

8481 9 weeks

8484 12 weeks

8482 18 weeks

8483 36 weeks

Industry Credentials:

These apply only to 36-week courses.

- **College and Work Readiness Assessment (CWRA+)**

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.*

Career Clusters, Career Pathways, and Occupations:

- Architecture and Construction
    - Construction
        - Electrician
    - Audio and Video Technology and Film
        - Graphic Designer
        - Multimedia Artist
        - Animator
    - Journalism and Broadcasting
        - Broadcast Technician

- o Printing Technology
    - ▪ Desktop Publisher
- o Visual Arts
    - ▪ Commercial Photographer
    - ▪ Multimedia Artist
    - ▪ Animator
- Government and Public Administration
    - o Planning
        - ▪ Urban and Regional Planner
- Science, Technology, Engineering and Mathematics
    - o 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
        - ▪ Computer Programmer
        - ▪ Computer Software Engineer
        - ▪ Electrical Engineer
        - ▪ Electrical Engineering Technician
        - ▪ Electro-Mechanical Technician
        - ▪ Electronics Engineering Technician
        - ▪ Engineer
        - ▪ Engineering Manager
        - ▪ Engineering Technician
        - ▪ Environmental Engineer
        - ▪ Human Factors Engineer
        - ▪ Industrial Engineer
        - ▪ Industrial Engineering Technician
        - ▪ Landscape Architect
        - ▪ Machine Setter, Operator
        - ▪ Manufacturing Systems Engineer
        - ▪ Marine Engineer
        - ▪ Materials Engineer
        - ▪ Mechanical Drafter
        - ▪ Mechanical Engineer
        - ▪ Mechanical Engineering Technician
        - ▪ Network and Computer Systems Administrator
        - ▪ Network Systems and Data Communication Analyst
        - ▪ Nuclear Engineer

- Petroleum Engineer
- Power Systems Engineer
- Production, Planning, Expediting Clerk
- Project Manager
- Quality Engineer
- Quality Technician
- Statistician
- Stockroom, Warehouse, or Storage Yard Stock Clerk
- Systems Analyst
- Technical Writer
- Telecommunications Specialist
- Transportation Manager
- Science and Mathematics
    - Animal Nutritionist
    - Animal Scientist
    - Atmospheric Scientist
    - Biologist
    - Botanist
    - Ecologist
    - Economist
    - Environmental Scientist
    - Geoscientist
    - Hydrologist
    - Materials Scientist
    - Oceanographer
    - Plant Biologist
    - Plant Breeder and Geneticist
    - Plant Pathologist
    - Research Chemist
    - Secondary School Teacher
    - Technical Writer
    - Toxicologist
    - Veterinarian
    - Veterinary Assistant