

Industry Credentials, Concentration Sequences, and Career Clusters

International Baccalaureate Design Technology I

IB4585 - 36 weeks

Industry Credentials:

These apply only to 36-week courses.

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

- International Baccalaureate Design Technology II (IB4586/36 weeks)

Career Clusters, Career Pathways, and Occupations:

- Science, Technology, Engineering and Mathematics
 - Engineering and Technology
 - Aerospace Engineer
 - Aerospace Engineering Technician
 - Agricultural Engineer
 - Architect
 - 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
- Manufacturing Systems Engineer
- Marine Engineer
- Materials Engineer
- Mechanical Engineer
- Mechanical Engineering Technician
- Nuclear Engineer
- Petroleum Engineer
- Power Systems Engineer
- Project Manager
- Quality Engineer
- Quality Technician
- Statistician
- Science and Mathematics
 - Environmental Scientist
 - Geoscientist
 - Hydrologist
 - Materials Scientist
 - Oceanographer
 - Research Chemist