



Career and Technology Studies and Knowledge & Employability Occupational Pathways by High School

Many Career and Technology Studies (CTS) and Knowledge and Employability (K&E) occupational pathways require specialized facilities. CBE high schools work closely together to support students in accessing pathways that may not be available in their home high school.

A variety of CTS pathways and/or K&E occupational courses are available at:

- a student's designated high school
- the Career and Technology Centre (CTC) at Lord Shaughnessy
 - [Learn more](#) | visit the [CTC](#) website
- [Unique Pathways and Off-campus Education](#)
- other high schools in the CBE

See the [High School Success Page](#) to view the Detailed High School Course Guide.

On the charts below, the following abbreviations are used to describe each of the occupational areas:

- **BIT**: Business, Administration, Finance & Information Technology
- **HRH**: Health, Recreation & Human Services
- **MDC**: Media, Design & Communication Arts
- **NAT**: Natural Resources
- **TMT**: Trades, Manufacturing & Transportation

Multi Cluster Courses

- Schools may offer courses that draw credits from multiple CTS occupational areas
- Course offerings, credit structure and program focus varies by school
- Check individual school websites for more information
- Examples include: Engineering Studies, Robotics, Architectural Studies

The level of the pathway offered is indicated by:

- i/a – means the school offers the occupational pathway at the introductory to the advanced level
- C – means the school offers courses in the occupational pathway up to and including the Credentialed level
- AP - means Advanced Placement offered in specified CTS programs

For Dual-credit and Exploratory programs offered in partnership with post-secondary institutions and industry partners

- See [Unique Pathways and Off-campus Education](#)

Note | If a CTS pathway or K&E occupational course is not available at a student's home high school; it may be available at another high school in the CBE. See the charts on the following pages and talk to a counsellor at your high school for information about availability.

Note | When a school has the necessary expertise and/or facilities, they offer both CTS courses and K&E occupational courses as per student requests.

CTS and K&E Occupational Pathways by High School

December 2022

i/a – introductory to advanced C – credentialed AP – Advanced Placement

| Area | This is a representation of programs as they exist at this point. This strategy as a process continues to evolve. | BIT | | | | | | HRH | | | | | | | | | | MDC | | | |
|------|---|-------------------|------------|-------------------------|----------------------|------------------------|--------------------------|--------------------------------------|-----------|----------------------------------|----------------|-------------------|-----------|------------|---------------|---------|---------------------|--------------------|------|--------------------------|----------------|
| | | Computing Science | Networking | Enterprise & Innovation | Financial Management | Information Processing | Management and Marketing | Cosmetology \ Hairstylist Apprentice | Esthetics | Culinary \ Cook Baker Apprentice | Personal Foods | Child Dev. Assist | Parenting | Leadership | Legal Studies | Tourism | Sports Medicine/ EM | Sports Performance | HPAD | Communication Technology | Design Studies |
| 1 | Bowness High School | i/a | | i/a | i/a | i/a | i/a | C | i/a | C | | | i/a | i/a | | i/a | i/a | i/a | i/a | i/a | |
| | Robert Thirsk High School | i/a | | i/a | | i/a | i/a | | | C | | | i/a | i/a | | i/a | i/a | | | i/a | |
| | Sir Winston Churchill | i/a | | i/a | i/a | | i/a | i/a | i/a | | | | i/a | | | i/a | i/a | | | i/a | i/a |
| 2 | James Fowler High School | i/a | i/a | i/a | i/a | i/a | i/a | C | i/a | C | i/a | | i/a | i/a | | i/a | i/a | | | i/a | i/a |
| | John Diefenbaker High School | i/a | i | i/a | i/a | i/a | i/a | | | | i/a | | i/a | i/a | i | i/a | i/a | | | i/a | i/a |
| | William Aberhart High School | AP | | | | | | | | | | | i/a | | | i/a | i/a | | | i/a | i/a |
| 3 | Crescent Heights High School | i/a | | | | | | | | | i/a | | i/a | i/a | | i/a | i/a | | | i/a | i/a |
| | Forest Lawn High School | | i/a | | | | | C | i/a | C | i/a | | i/a | i/a | | i/a | i/a | | | i/a | |
| | Jack James High School | | | | | i/a | | | | | C | | i/a | | | | i/a | | | i/a | i/a |
| 4 | Lester B Pearson High School | i/a | | | i/a | | i/a | | | C | | | i/a | i/a | | i/a | i/a | | | i/a | i/a |
| | Louise Dean School | | | | | i/a | | | | | i/a | | i/a | i/a | | | | | | i/a | i/a |
| | Nelson Mandela High School | AP | | | i/a | i/a | i/a | | | C | i/a | | i/a | i/a | | i/a | i/a | | | i/a | i/a |
| 5 | Centennial High School | i/a | | | i/a | | | C | i/a | C | | | i/a | | | i/a | i/a | | | i/a | |
| | Joane Cardinal-Schubert High School | i/a | i/a | i/a | i/a | | i/a | C | | C | i/a | | i/a | i/a | | i/a | i/a | | | i/a | i/a |
| | Lord Beaverbrook High School | i/a | | i/a | i/a | | i/a | C | i/a | i/a | | | i/a | | | i/a | i/a | | | i/a | i/a |
| 6 | Career and Technology Centre | i/a | i/a | | i/a | | i/a | C | C | C | | | | | i/a | | | | | i/a | i/a |
| | Central Memorial High School | | | | i/a | | i/a | | | | | | i/a | | | i/a | i/a | | | i/a | i/a |
| | Dr. E.P. Scarlett High School | i/a | | | | | | | | | i/a | | i/a | i/a | | i/a | i/a | | | i/a | i/a |
| | Henry Wise Wood High School | i/a | | | | | | | | | i/a | | i/a | | | i/a | i/a | | | i/a | i/a |
| 7 | Ernest Manning High School | i/a | | i/a | i/a | | i/a | | | | | | i/a | | | i/a | i/a | | | i/a | i/a |
| | Queen Elizabeth High School | i/a | | | | | | | | | | | i/a | | | i/a | i/a | | | i/a | i/a |
| | Western Canada High School | i/a | | i/a | i/a | i/a | i/a | | | | i/a | | i/a | i/a | | i/a | i/a | | | i/a | i/a |
| ALL | CBe-Learn (online) | i/a | | | | | | | | | | | a | | i/a | | | | i/a | i/a | i/a |

CTS & KE pathway and program offerings may change over time due to staffing, enrollment, equipment and/or facilities

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| Area | This is a representation of programs as they exist at this point. This strategy as a process continues to evolve. | NAT | | | | | | TMT | | | | | | | |
|------|---|-------------|---------------------------|----------|--------------|-------------------|----------|-----------|--------------|----------|----------------------|--------------|-----------------|-----------|-------------------------------|
| | | Agriculture | Environmental Stewardship | Forestry | Horticulture | Primary Resources | Wildlife | Auto Body | Auto Service | Aviation | Electro-Technologies | Construction | Building Trades | Logistics | Welding and Metal Fabrication |
| 1 | Bowness High School | | | | | | | | i/a | | | i/a | i/a | | |
| | Robert Thirsk High School | i/a | i/a | i/a | | i/a | i/a | | | | i/a | i/a | | | |
| | Sir Winston Churchill | | | | | | | | i/a | | i/a | | | | |
| 2 | James Fowler High School | | | | | | | i/a | i/a | | i/a | i/a | i/a | | i/a |
| | John Diefenbaker High School | i/a | i/a | | | | | | | | i/a | i/a | | | |
| | William Aberhart High School | | | | | | | | C | | | i/a | | | |
| 3 | Crescent Heights High School | | i/a | | | | i/a | | i/a | | | i/a | | | i/a |
| | Forest Lawn High School | i/a | i/a | | | | i/a | | C | | | i/a | | | C |
| | Jack James High School | | | | i/a | | | i/a | | | i/a | i/a | i/a | | |
| 4 | Lester B. Pearson High School | | | | | | | | | | | i/a | | | |
| | Louise Dean School | | | | | | | | | | | | | | |
| | Nelson Mandela High School | | i/a | | | | | | | i/a | i/a | | | | |
| 5 | Centennial High School | | | | | | | | | | | i/a | | | |
| | Joane Cardinal Schubert High School | i/a | i/a | i/a | | i/a | i/a | | | | | i/a | | | |
| | Lord Beaverbrook High School | | | | | | | i/a | i/a | | | i/a | i/a | | i/a |
| 6 | Career and Technology Centre | | i/a | | | i/a | | C | | | C | i/a | | | C |
| | Central Memorial High School | | | | | | | | C | | i/a | i/a | | | |
| | Dr. E.P. Scarlett High School | | | | | | | | i/a | | | i/a | | | |
| | Henry WiseWood High School | | | | | | | | | | | i/a | | | |
| 7 | Ernest Manning High School | | | | | | | | | | i/a | i/a | | | |
| | Queen Elizabeth High School | | | | | | | | | | | i/a | | | |
| | Western Canada High School | | | | | | | | | | i/a | | | | |
| ALL | CBe-Learn (online) | i/a | i/a | i/a | i/a | i/a | i/a | | | | | | | i/a | |

Innovation Technology Courses

Innovation Technology courses focus on a variety of STEM concepts. These classes expose students to a broad range of knowledge and technical skills using modern and emerging technologies such as 3D-printers, laser cutters, microcontrollers, electronics, robotics, and more.

The course name, specific skills and concepts, credit structure, equipment and technology utilized in innovation technology courses may vary from school to school.

Common names for Innovation technology courses include Design Innovation, Robotics, Engineering Studies, etc.

Check individual high school websites to determine the Innovation Technology courses offered at each location.

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