

Are you ready for future trends in the workforce?

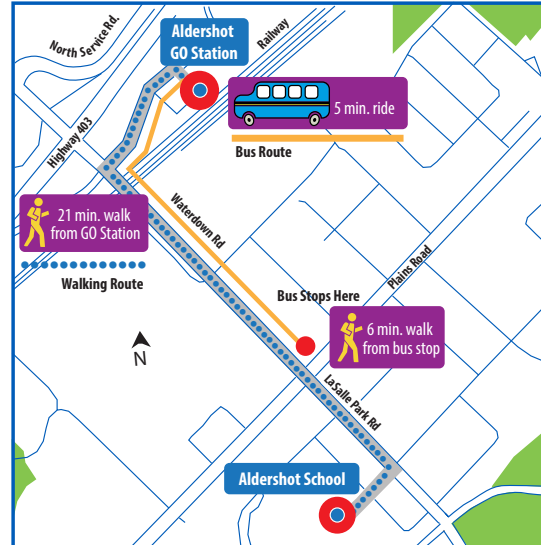
- Technological Change and Disruption
- Accelerating Globalization
- Shifting Demographics

We won't ask what you want to be... We will ask...
"What problem do you want to solve?"



**New program coming to Aldershot High School
 SEPTEMBER 2019**

Program Development and Advisory Partners:



Aldershot School
 50 Fairwood Place W,
 Burlington, Ontario L7T 1E5

Questions?

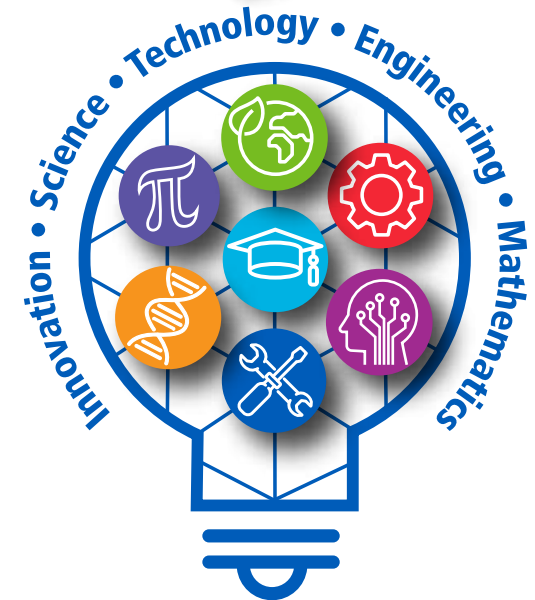
Please contact the I-STEM Program Lead, Principal or Vice-Principal with specific inquiries.

Phone: 905-637-2383

Email: I-STEM@hdsb.ca

Follow us on Twitter @Istem_HDSB

Application and Program Information available at www.hdsb.ca (Search "I-STEM").



I-STEM

Why I-STEM?

In a world of continual change with evolving science, technology, engineering and innovation, we have the opportunity to develop global citizens who contribute to solving complex economic, social and environmental problems.



I-STEM Program

A Global Skills Learning Hub to Develop Innovative Minds

I-STEM Learning

Students will contribute and thrive in our technologically intensive world through interdisciplinary learning opportunities connecting Science, Technology, Engineering and Math (STEM). Learning in the classroom is paired with experiential learning and mentorship with the community and workplace.

Engineer's Toolkit

In Grade 9, students will explore and develop innovation skills related to engineering design and design thinking. Engineers use their creativity and analytical skills to invent, design, and build things that matter. The design thinking process brings the lens of human-centred design to solving real world problems. These design processes will enable students to further develop mindsets that include creativity, critical thinking, and project management.

Entrepreneur's Toolkit

In Grade 10, students will explore and develop entrepreneurial thinking skills, a key ingredient in turning a new scientific discovery or innovation in technology into a usable product. Knowledge and skills necessary to be an entrepreneur are developed through STEM. The innovations in STEM provide opportunities for the use of these discoveries and technologies.

Global Innovator's Toolkit

Framed in the 17 United Nations Sustainable Development Goals, students in Grade 11 and 12 will explore, develop and implement solutions to social, economic, or environmental global issues culminating in a public exhibition of work.

Application Deadline is Jan. 19, 2019 for Sept. 2019 entry

Students completing the 4-Year Program will receive an I-STEM certificate (13 required courses).

Local Issues Based Learning	Grade 9 Engineer's Toolkit I-STEM Certificate Required Courses <ul style="list-style-type: none"> • Gr. 9 STEM Math • Gr. 9 STEM Science • Gr. 9 STEM Geography • Gr. 9 STEM Technological Design Additional Courses <ul style="list-style-type: none"> • Gr. 9 English • Gr. 9 French • Gr. 9 Arts (Elective) • Gr. 9 Physical Education 	Global Issues Based Learning	Grade 11 Global Innovator's Toolkit I-STEM Certificate Required Courses <ul style="list-style-type: none"> • 1 or more Gr. 11 Math • 1 or more Gr. 11 Science or Technological Studies • Gr. 11 STEM Interdisciplinary Studies** Additional Courses <ul style="list-style-type: none"> • Gr. 11 English
	Grade 10 Entrepreneur's Toolkit I-STEM Certificate Required Courses <ul style="list-style-type: none"> • Gr. 10 STEM Math • Gr. 10 STEM Science • Gr. 10 STEM Civics/Careers* • 1 of Gr. 10 Computer Science, Computer Engineering or Technological Studies Additional Courses <ul style="list-style-type: none"> • Gr. 10 English • Gr. 10 History • 2 Elective Courses 		Grade 12 Global Innovator's Toolkit I-STEM Certificate Required Courses <ul style="list-style-type: none"> • 1 or more Gr. 12 Math • 1 or more Gr. 12 Science or Technological Studies • Gr. 12 STEM Interdisciplinary Studies** Additional Courses <ul style="list-style-type: none"> • Gr. 12 English

Notes: *Students in I-STEM must take Gr. 10 STEM Civics/Careers in class during the school year

**Students in I-STEM must take the STEM Interdisciplinary Studies Course: Global Changemakers (IDC 3U) or (IDC 4U)

Competency Based Learning

Innovation, Creativity and Entrepreneurship

