



Engineering in the Classroom

QUESTIONS?

Contact us at
416-946-0816

This professional development certificate program will provide teachers with hands-on STEM experiences designed to increase their confidence in their ability to teach math and science. Participants will learn how to incorporate engineering concepts into the Ontario Curriculum while promoting student interest and engagement.

Culminating in a two-night retreat at the University of Toronto's beautiful Civil Survey Camp in Minden, Ontario, teachers and teacher candidates will leave the program with a renewed sense of excitement for and proficiency in STEM education.

Schedule

Saturday November 19, 2016 | 8:30am - 4:00pm

Welcome! - Full day introduction to the program, STEM, and engineering design concepts.

Saturday December 10, 2016 | 2:00 - 5:00 pm

Exploring Relevance - This session will take a look at the role of STEM in your personal life, as well as how to make curriculum relevant to the lives of your students.

Saturday January 28, 2017 | 2:00 - 5:00 pm

STEM Professional Meeting 1 - This session will involve a panel with a variety of STEM professionals and researchers who teachers will then collaborate with in the planning of lessons and a unit of study that can be used in their classroom.

Saturday March 4, 2017 | 2:00 - 5:00 pm

Universal Design, Differentiation, Assessment - This session will address how to design lessons that allow all students to be successful. We'll also go over assessment strategies that help identify areas of understanding as well as misconceptions in your students' STEM knowledge.

Saturday April 8, 2017 | 2:00 - 5:00 pm

STEM Professional Meeting 2 - STEM professional partners return to complete planning started in January. Teachers can discuss new challenges they've faced with their initial plans and add in anything they took away from the previous session.

Saturday May 13, 2017 | 2:00 - 5:00 pm

Content Knowledge and Other Constraints - This session will address how to deal with discomforts due to lack of content knowledge, as well as how to accommodate various budget and time constraints you may be faced with.

Friday June 9 - Sunday June 11, 2017

Participants will head to University of Toronto Survey Camp in Minden, Ontario for a two-night retreat where we will address topics that extend and enrich the science curriculum including outdoor education and development of leadership skills through STEM education. Teachers will also have the opportunity to present the work they've done in their STEM Professional groups.

Cost: \$100 for teachers
\$50 for teacher candidates currently enrolled as a student

* Cost includes accommodation and food during End of Program Retreat