



# Participants Needed for Research Study on NEXUS Program Grades 11-12\*

\*participants must meet additional eligibility criteria listed below

www.mathstronauts.ca



## Description

The NEXUS Program is designed for passionate post-secondary (PS) bound high school students. At NEXUS Engineering, participants will learn fundamental programming concepts such as if/else statements, loops, functions and advanced programming techniques such as Q-learning in the Python programming language to apply them in the context of machine learning. In addition to programming skills, this course will help participants develop essential soft skills, which have been identified as the most important in ensuring success in post-secondary: time management, problem solving, self-directed learning and note taking.

### Research Project

This program contains a research component. With support from researchers at McMaster University, we are evaluating the effects of the NEXUS Program on its participants. As such, all eligible and accepted participants will participate in evaluations that will help us assess the feasibility and impact of the program.

### Eligibility Criteria

All applicants must be:

- A current high school student in HWDSB or HWCDSD
- Officially enrolled in Grade 11 or 12 only
- Must be from one of the listed underrepresented groups in STEM or post-secondary education (*see right*)

### Underrepresented Groups

- Female
- Indigenous Groups
- Visible minority (South Asian, Asian, Black, Hispanic)
- Person with a disability
- Low-income family

### How to Apply

Complete the [Applicant Form](#) by **February 7, 2022**.



## Details



**TUESDAYS**  
6:30 PM - 8:30 PM



**ONLINE**  
Eastern Daylight Time



**FEB 15 - MAY 10, 2022**  
(12 weeks)



**FREE** - this program is typically offered at a cost of \$200.00 per participant. All accepted participants to the research study will receive this programming free of charge.

