



LASSONDE PD
PROFESSIONAL DEVELOPMENT

Computer Science for Non-Technical Professionals



Overview

This course aims to provide students with an understanding of the role computational thinking can play in problem solving. It also aims to help students, regardless of their professional background, to feel justifiably confident of their ability to write small programs that allow them to accomplish useful goals.

Key Takeaways

- Pseudocode
- Variables
- Conditionals
- Iteration
- Arrays
- Objects
- Functions
- Sorting
- Searching
- Simulation



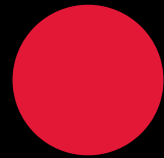
Participants

This program is tailored for people with little to no programming experience. However, anyone is welcome to participate in Lassonde Professional Development's experiential learning!

Prerequisites

Very basic knowledge of computer networks and concepts of programming

Program Highlights



Program Length
12 Weeks



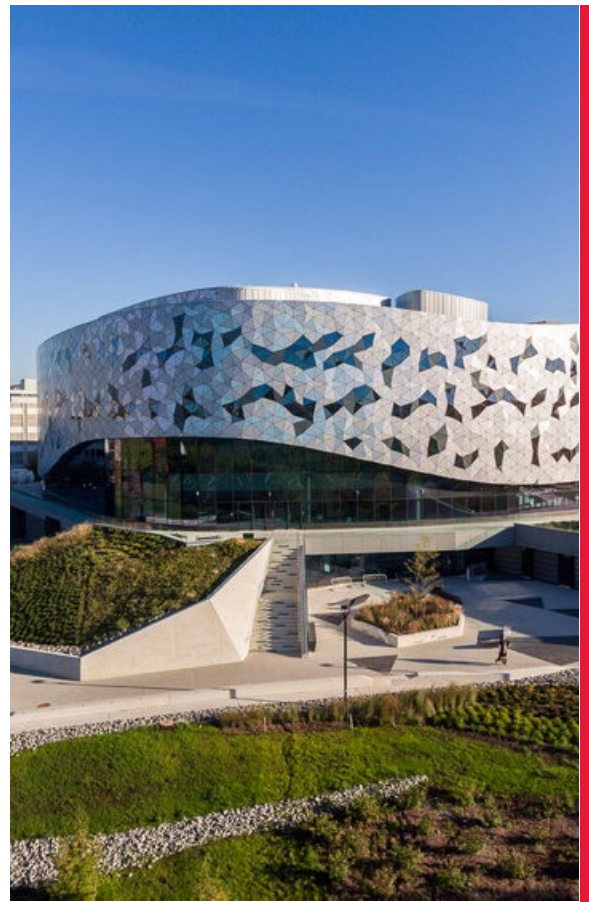
Tuition Fee
\$495.00 CAD



Program Format
Self-paced, Weekly
Coaching Sessions

Why Us?

- Learn from Shopify and Lassonde Mentors
- Receive digital badge, which provides online recognition of successfully completing the course
- Participants will be organized into guilds of 4-5, giving you an enhanced learning experience
- Certificate from Lassonde School Engineering, York University





Course Outline

Introduction- computer science and computational thinking

Drawing Pictures with processing- Data and Variables

Interactive Painting- functions, switch statement

Jukebox- Booleans, conditionals
Sheep AI- while loops, arrays

Foreign Student Visualization- parallel arrays, strings, algorithms, objects, recursion

Set Cover Problem- for loops, object copying, shared data

Image processing (bonus topic)



Certificate of Completion & Badging

Participants must attend all program modules and successfully complete the take-home assignment/exam to receive a certificate. Once the certificate is granted, you will receive a digital badge that you can share on your social media platforms. Participants, prospective employers and professional governing bodies can access and reference the digital badge whenever verification is requested.



LASSONDE PD

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Contact Us

Lassonde Professional Development

Bergeron Centre For Engineering
Excellence

11 Arboretum Lane, Room 215

4700 Keele Street

Toronto, Ontario

Canada M3J 1P3



Connect with us
lpdshare@yorku.ca



Visit us online
lassonde.yorku.ca/lassondepd

