

TERM	COURSE DESCRIPTION	PROJECT EXAMPLES	DURATION	COURSE FEE
1	PRG100: LOGIC BUILDER Fundamentals in modular programming of motors and multiple sensors using logic loops and conditional statements. STEM topics such as science are integrated into each lesson by presenting how each sensor works and math is applied for motor drive and control	Self Driving Rover using Vex IQ Rover	8 weeks	\$300+HST
2	PRG200: PROGRAMMING CHALLENGE A project-based course teaching modular programming of a multi-motor, multi-sensor robot. This course provides students an opportunity to apply the fundamentals taught in the first fundamentals course. The project is designed to promote independence, build confidence and develop communication and leadership skills. Students present their work to their instructors in front of their parents during the last class where student performance evaluation is conducted	Strawberry Sorter using Vex IQ Clawbot	8 weeks	\$300+HST
3	PRG300: PROGRAMMING COMPETITION Modular programming of a complex robot to be entered in a competition against other term 3 students. Game objectives and scoring rules are presented at the start of the course followed by students working together to program, test and refine their programs. The competition is held in front of parents and instructors where the winners are presented with prizes	Crane Stacker using Vex IQ Armbot	8 weeks	\$350+HST
4	ADC400: ADVANCED PROGRAMMING FUNDAMENTALS C language programming teaching variables, datatypes, loops and conditional statements used to program robots. This course moves beyond graphical programming towards language-based coding which offers greater control for robot development. A new robot platform is introduced to have students comfortable with transferring their knowledge to multiple types of robots	Forklift Logistics using Lego EV3	8 weeks	\$350+HST
5	ADC500: ADVANCED PROGRAMMING CHALLENGE C language project-based course where students program a multi-motor, multi-sensor robot to perform a specific task. Similar to the term 2 project course, students are given an opportunity to apply knowledge acquired from the previous course and advance in language-based programming	Rubik's Cube Solver using Lego EV3	8 weeks	\$350+HST
6	ADC600: CODING COMPETITION C language programming of a complex robot where students compete based on the specified game objectives and scoring rules presented at the start of this course. Students work together to build, program, test and refine their code. The competition is held in front of parents and instructors where the winners are presented with prizes	Humanoid using Lego EV3	8 weeks	\$350+HST
7	MEC700: FUNDAMENTALS OF ROBOT MECHANICS Building robots cannot be complete without learning mechanics. This course teaches students about the fundamentals of robot design including power transmission, various steering strategies, gear ratios and object manipulators	Object Manipulator using Vex EDR	8 weeks	\$400+HST
8	MEC800: ADVANCED ROBOT MECHANICS Teaching advanced concepts relating to lifting mechanisms, accumulators as well as introducing CAD design, 3D printing and computer simulation	Box Stacker using Vex EDR	8 weeks	\$400+HST
9	FIN900: THE EXCEED ROBOTICS FINAL COMPETITION The engineering process is used throughout an entire robot design project including brainstorming, concept selection, motor control, sensor selection, programming, prototyping, testing and troubleshooting. There will be a final presentation and awards will be given to the winner	Custom Project Vex EDR, custom design	8 weeks	\$400+HST
X	Advanced Robotics Courses Future advanced courses teaching rduino and Rasperry PI microcontroller programming, Engineering development and design, External competitions	Arduino Controlled	-	n/a

Note: course content and project details are subject to change based on updates made to the curriculum, as part of our commitment to continuous improvement

REGISTRATION PROCESS

1. Fill out the FREE trial class registration form or register online at www.exceedrobotics.com
2. You will receive an email confirming the requested trial session date & time.
3. Following the trial session, you can decide to enroll into an available class by filling out the Program Enrollment Form.
4. After submitting the completed program enrollment form, **a suitable class will be scheduled according to your availability, the student's age and our assessment**

CLASS HOURS

Mon - Thurs: 6:30-7:30pm, 7:30-8:30pm
Fri: closed
Sat & Sun: 9:00am - 5:00pm, every hour
 except from 12:00-1:00pm