



PREMIER MECHATRONICS ROBOTICS ACADEMY

2021-2022 Open House Information

Acknowledgement



We would like to acknowledge and thank the Squamish Nation upon whose traditional territory West Vancouver Schools reside.

We would like to express our gratitude to this Nation as we value the opportunity to learn and share educational experiences on this traditional territory.

What our students have to say about the Premier Robotics Academy





Academy Personnel

Mr. Paul Eberhardt

WVS Vice-Principal, Premier Sports Academies



- M.Ed. In Education Curriculum & Instruction
- High School Teacher and Coach for 30 years
- Joined the Academy team in 2018
- Office located on site at West Van Secondary

Mr. Todd Ablett

WVS LEAD Teacher, Premier Mechatronics Robotics Academy
“Godfather of BC Youth Robotics”



Qualifications:

- 20 years teaching Robotics
- Recipient of the Prime Minister’s Teaching Excellence Award
- VEX Robotics Teacher of the year
- Recipient into the VEX STEM Hall of Fame
- Multi-talented and skilled in many areas but best described as a hardware (Botsmith)

Dr. Mahesh Chugani

WVS Mechatronics Robotics Teacher

WVS IYP Big Bad Bot Builders Teacher

Qualifications:

- Masters in Science
- Ph D. in Electrical Engineering
- Certified VRC Change Up Head Referee
- Certified VRC Drive Team Member
- Certified VEX IQ Robotics Educator
- Certified VEX IQ Rise Above Head Referee
- Member. Project Advisory Committee, Canada's ICTC (Information & Communications Technology Council)
- Specialty: Software Better known as Roboguru





Ms. Cari Wilson

- **WVS District Innovation & Technology LEAD Teacher**
- **WVS Mechatronics Robotics Teacher**
- **Ignite Your Passion Digital Art & Media Teacher**



- District Innovation and Technology Lead
- M.Ed. In Education Technology
- Microsoft Innovative Teacher award Winner
- Google Certified Trainer
- Professionalism (Chaos Manager)



General Concept

- Designed for students registered full time in any one of the secondary schools in the WVSD: Rockridge, Sentinel or WVSS
- All genders eligible
- Grades 9-12



West
Vancouver
Secondary



École Sentinel
Secondary



Rockridge Secondary

General Concept of Premier Academies

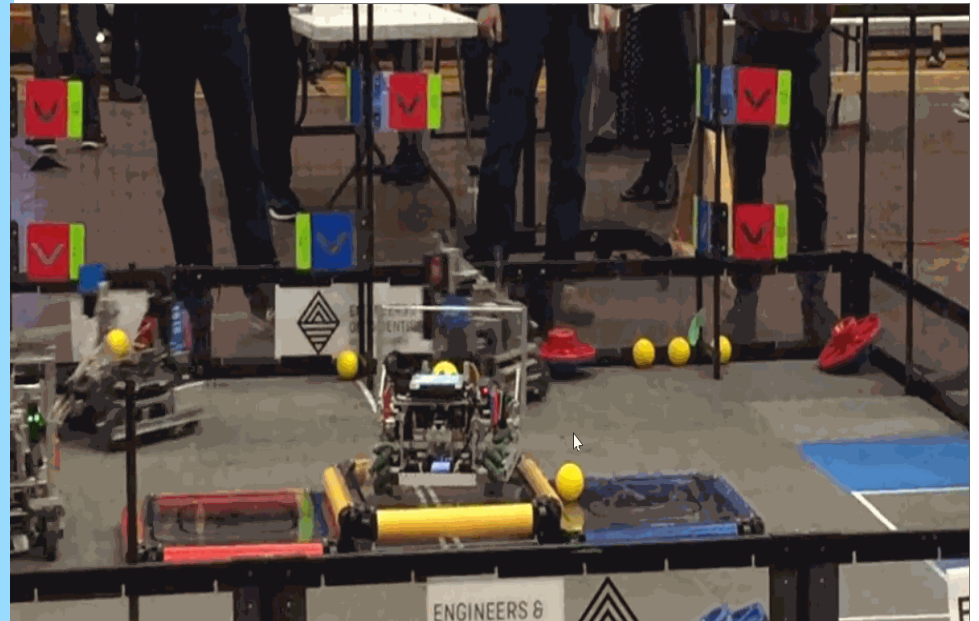
- Academies are choice program with fees associated with them
- Designed as opportunities for students in specialized areas of interest
- Taught by WVS teachers, but can include partnerships with outside community instructors
- By participating, students receive courses that are used towards graduation
- Our focus is providing a positive, challenging & fun environment for students



Course Description

Students:

- Work in design teams
- Research, design, build, program and test robots
- Receive an introduction to engineering, robotics, coding, prototyping and the Design Cycle
- Compete in Robotics competitions, locally, provincially, and internationally



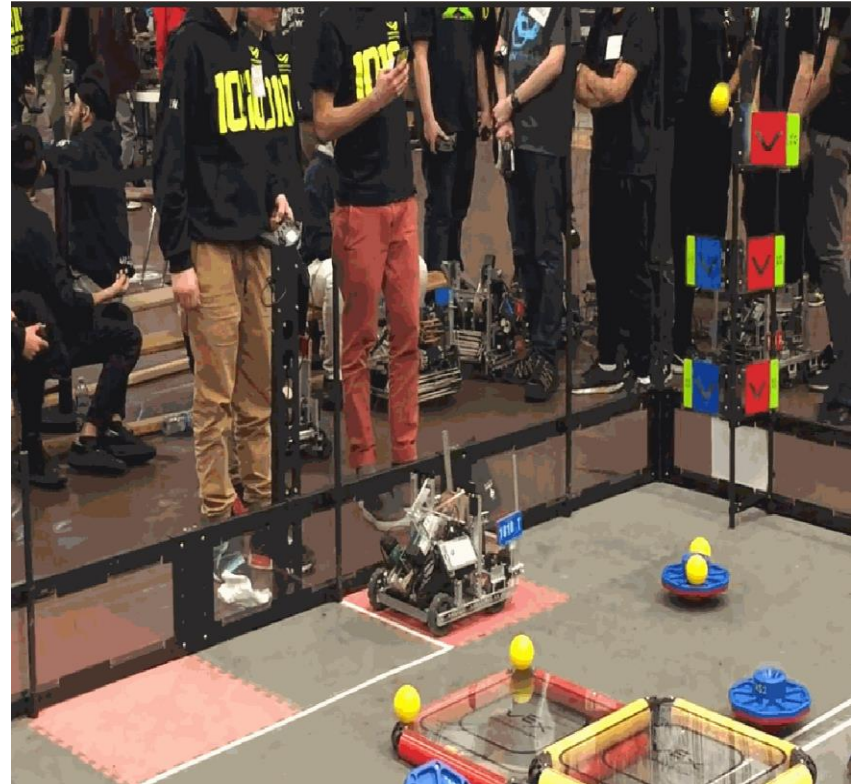
What Students will learn

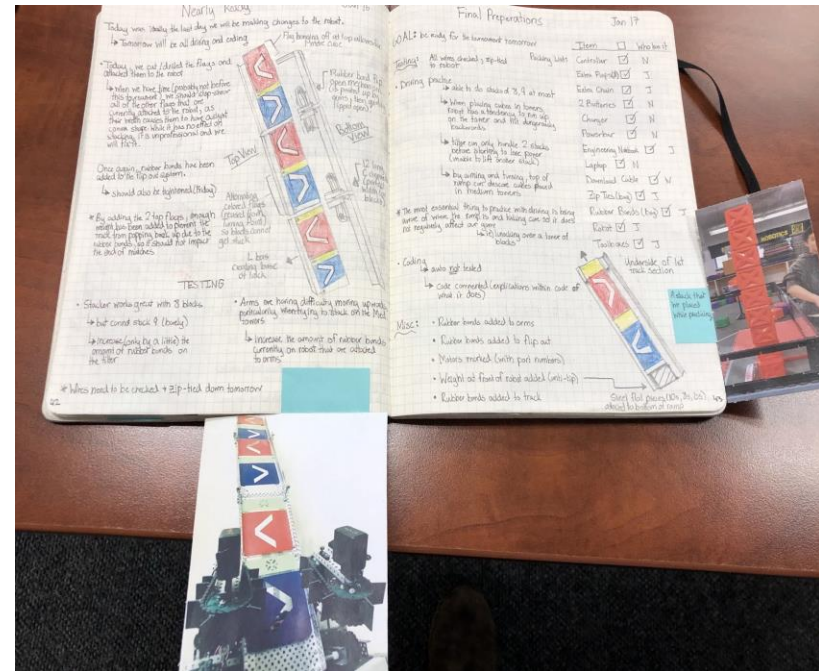
- Setting goals and working with their peers
- Learning the rules of the game
- Learning to work with referees and other game officials (respect and responsibility)
- Game optimization
- Design to criteria



What Students will learn




- Sportsmanship and fair play
- Teamwork, leadership, and networking in a competitive environment
- Meeting deadlines, problem solving & personal interaction
- Awareness of increased employable skills and of technical & STEM career paths














BADGES

student motivation, engagement, & recognition

 	
1010 Robotics	1010 Robotics
	
1010 Robotics	1010 Robotics
TOOLS	Pliers

 	
1010 Robotics	1010 Robotics
	
1010 Robotics	1010 Robotics
Robotics Academy	Freshman

 	
1010 Robotics	1010 Robotics
	
1010 Robotics	1010 Robotics
AWARD	Create

 	
1010 Robotics	1010 Robotics
	
1010 Robotics	1010 Robotics
Build Towers	Night Owl Basic

Engineering Notebooks



The Schedule

- September to June
- Linear (all year long) within our current quarter system
- Tuesdays: 1:00 – 3:40 p.m.
OR
- Thursdays: 1:00 to 3:40 p.m.
- We communicate well in advance which day is assigned to students.
- Currently, the students interested in First Robotics Competition (FRC) participate in this course on Saturdays
- More information will be provided to parents and students as we move forward





Quarter System - Sample Schedule

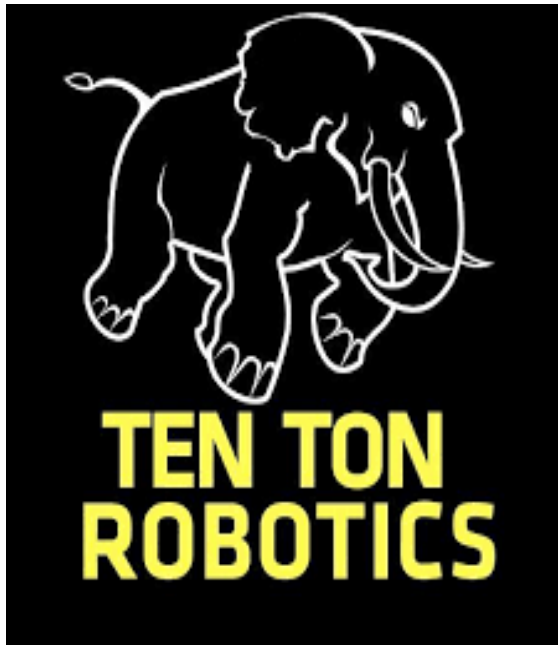
The Premier Robotics Academy is 160 minutes running all year long. All classes take place in the T Wing at WVSS

Time	Monday	Tuesday	Wednesday	Thursday	Friday
Period 1					
Lunch					
Period 2		X-Block		X-Block	
		1:00 – 3:40		1:00 – 3:40	
4:00 – 5:40		Additional Course Available		Additional Course Available	
					*Saturday FRC class

Mechatronic Robotics Parent Society

Goals of the Society

- Promote the Robotics Academy in West Vancouver and across the world
 - Foster and encourage Mechatronics Robotics education within West Vancouver Schools
 - Assist families with some tournament expenses
 - The purchase of some equipment and parts
 - Assist with some shipping costs of robots to competition locations
 - Find potential sponsorships
 - Fundraise
-
- *All parents are welcome to join this parent-operated society



The Location

All Mechatronics Robotics classes take place at:

West Vancouver Secondary School

Technology Wing





Transportation

Bus Transportation

First Student Canada Bus Company

Students are transported from
Rockridge & Sentinel to West
Vancouver Secondary School

This is a one-way transport for
students

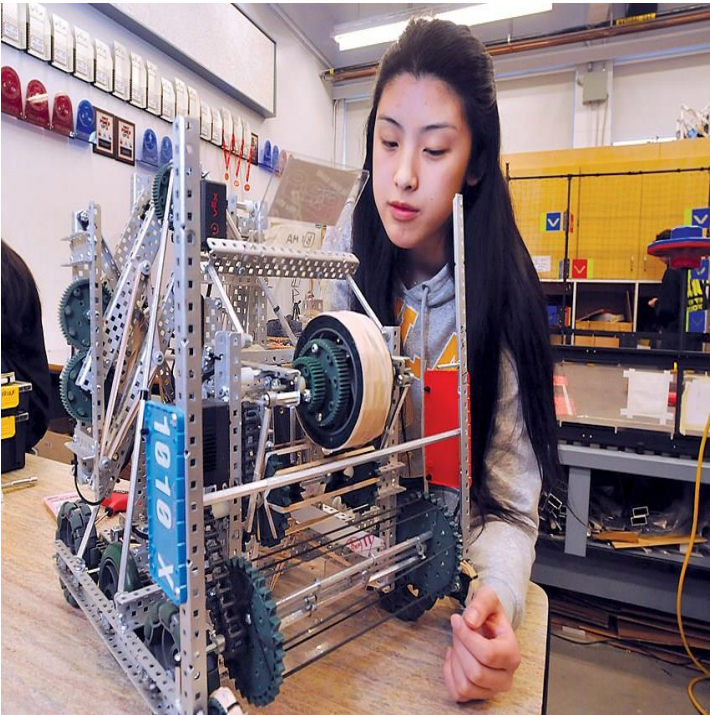
Parents are responsible for
picking up students at the
conclusion of the classes or for
them to make their way home





Courses & Assessment

Courses for Participation



Grade 9

ADST Electronics and Robotics 9

Grade 10

ADST Electronics and Robotics 10

Grade 11

ADST Robotics 11

Grade 12

ADST Robotics 12

*Other courses may be offered after school that provide students with further credits.

More information will be available to parents as students plan for September.

After-School Courses

Grade 9

Locally developed Electronics and Robotics 9

Grade 10

Electronics 11

Grade 11

Electronics 12

Grade 12

Mechatronics 12

***Please note that the teachers will select those students who would be candidates for these added courses.**

More information will be available to parents as students plan for September.



Assessment & Evaluation

Assessment

On-going assessment each session

Report Cards

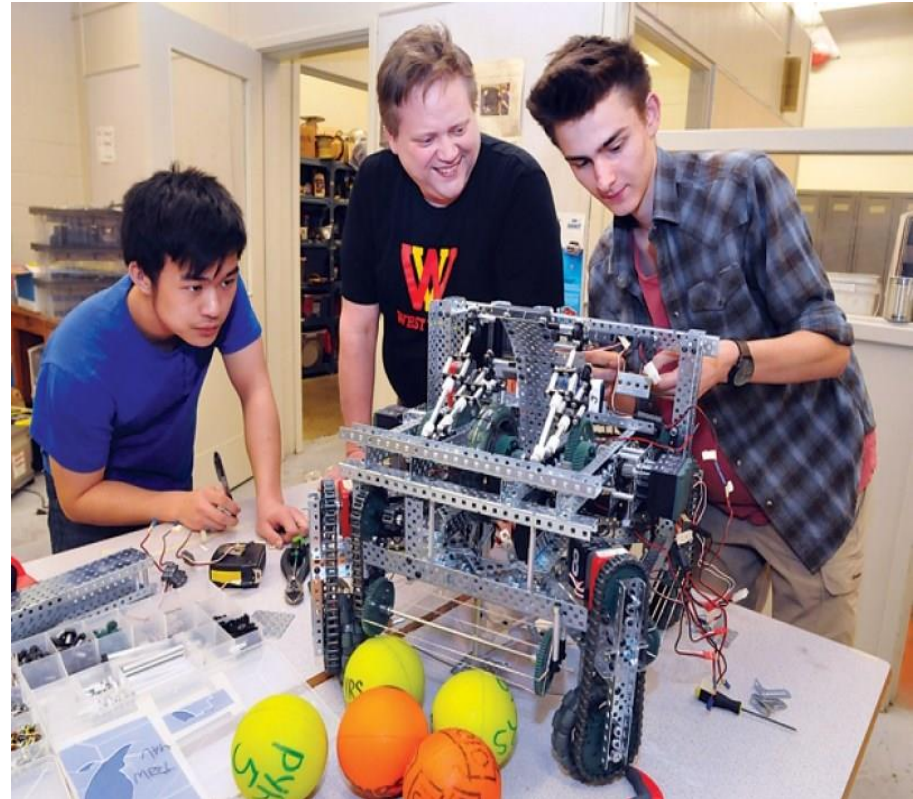
Report cards issued 3 times per year

Parent-Teacher Interviews

One formal virtual interview offered to parents

Open-door policy

Parents can contact us at any time





Supplies & Equipment

Clothing and Supplies

Students are required to purchase a T-Shirt or a Hoody

Other optional items are also available for purchase:

Jackets

Backpacks

Parent monthly fees include:

- Course materials
- Supplies
- Local tournament entry fees





Fees

Fees

The academy runs September-June
10 months (linear)

Monthly fee: \$275 x 10 months
Tuition: \$2750.00

Once students are confirmed in the
Academy, a non-refundable deposit
will be required

All fees will be paid through Cash
Online

More information will be provided to
parents by Tara Ledingham,
Academies Assistant, in the Academy
Office, located at WVS Board Office





The Selection Process & Criteria



Selection Process & Criteria

- ☐ Genuine interest or passion – sound reasons for applying
- ☐ Commitment to participate for the full school year
- ☐ Complete the online student information form
- ☐ Immediately following the submission of the online student information form, please provide a copy of the student's most recent report card to complete the process
- ☐ We are looking for evidence or answers within the completed registration form:
 - Satisfactory to excellent work habits
 - Ability to work well in classrooms academically
 - Ability to maintain good to excellent grades
 - Demonstrated good character: being responsible & respectful
 - Ability to work well with others
 - Ability to follow the rules of a special program, as well as the mandatory health and safety protocols



Thank You