

ENGINEERING PATHWAYS

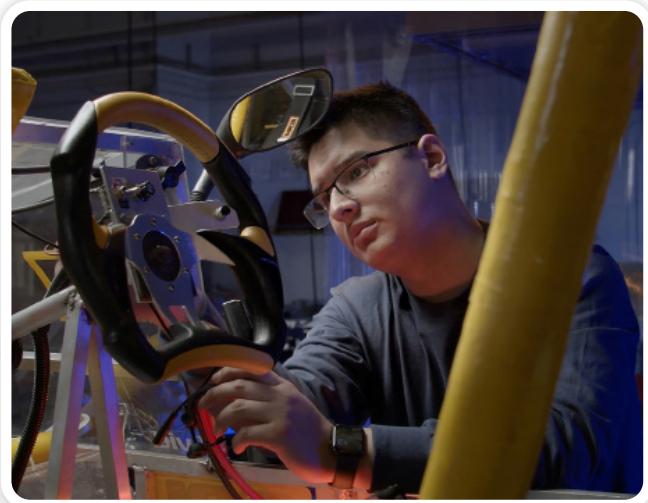
Waterloo Catholic District Schools | Ontario, Canada

THE ENGINEERING CERTIFICATE PROGRAM (ECP)

The Engineering Certificate Program (ECP) is designed to provide students with the hands on, practical skills needed to be successful in several fields of engineering. By emphasising academic achievement in science and mathematics in combination with courses in technology, students are better able to apply their theoretical knowledge to practical experiences. This is all done in combination with participation in clubs and competitions in robotics, e-car, precision machining, and control systems.

WHAT TO **EXPECT**

- Preparation Program for University Engineering
- Providing Hands On, Practical Skills Needed To Be Successful In Fields Of Engineering
- Applying Theory From The Maths & Sciences To Real World Situations
- Develop Leadership and Team Skills
- Collaboration with University of Waterloo Faculty of Engineering



Website



Video

REQUIREMENTS FOR THE ECP

To be eligible to receive the WCDSB Engineering Certificate, students need to complete:

- Four courses from either computer engineering, mechanical engineering, robotics, or mechanical design
- One senior level course in mathematics
- One senior level course in science
- Participation in a robotics, e-car, control systems, or machining club

SUMMER CREDIT COURSE

Our 1 credit, 4-week program helps students start working towards their Engineering Certificate and Ontario Secondary School Diploma.

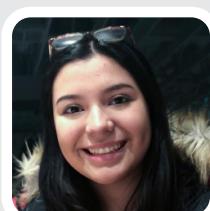
WHAT TO EXPECT:

- Career Exploration
- 4 days per week for 4 weeks
- 6 hour days with 2 hours per day instruction in Robotics, Manufacturing Engineering and Transportation Engineering
- Field trip to Eclipse Automation Facility and University of Waterloo Faculty of Engineering



TEAM DAVE:

Team DAVE is the FIRST Robotics Team at St. David CSS in Waterloo, Ontario, Canada. Team DAVE seeks to teach students the core principles of STEAM, while giving them the opportunity to travel and compete. DAVE knows that most people have never built a robot before, therefore the team welcome students from grades 8-12 and all levels of experience with open arms. For more information, please visit: www.teamdave.ca



JOHANA SOTO SOLIS

"The ECP program has helped so much in guiding me toward my goal of becoming a mechanical engineer... the ECP program has given me the optimum knowledge, experience, and an advantage as a student looking to pursue a career in mechanical engineering."