

SPECIALIST HIGH SKILLS MAJOR



Ontario.ca/SHSM



# BURLINGTON CENTRAL HIGH SCHOOL BURLINGTON CENTRAL HIGH SCHOOL Engineering, Manufacturing & Robotics

## Program Overview:

The SHSM manufacturing program offers students the opportunity to explore the many disciplines associated with manufacturing.

## Students Will:

- be exposed to skilled trades and professional areas such as engineering, technologist, millwright, machinist, tool and die, and welder.
- gain an appreciation and understanding for craftsmanship, design, blueprint reading, proper communication and the importance of working to close tolerances.
- have the opportunity to create unique projects by working to blueprints and specifications.
- hone their skills as well as improve their team building skills with student-centered problem solving opportunities.
- have the opportunity to work in a sector-related environment through the coop component of the program in order to gain new insights to potential future career paths (and make some money at the same time!).

Our experienced staff will provide training by covering topics including design, computer assisted design, precision measurement and layout, hand tools, machine tools (lathe, milling machine, drill press, surface grinder, pedestal grinder, band saw) as well as welding and fitting.



# PATHWAYS



## Course Package:

Students can continue onto all potential destinations through this program - apprenticeship, college, university and the workplace. The program for students will consist of:

- 4 Manufacturing credits (depending on exit destination)
- 1 Physics credit (depending on exit destination)
- 1-2 English credit(s) (depending on exit destination)
- 1 Math credit
- 2 Coop credits in the Manufacturing sector

## Who would be interested in the program?

This program meets the needs for all destinations so students ranging from university to workplace will find that there is something here for them.

- Students who would thrive in 'a hands on program' that also explores theoretical aspects and answers many of the 'why' type questions.
- Students who thrive when they can see the integration of math and science and technology by applying the theory in the shop.
- Students who are interested in working with their hands designing, troubleshooting, manufacturing and assembling.
- Students who enjoy working as a team and finding relevance to math and physics by applying knowledge and skills in a real world problem solving situation would benefit greatly from this course.
- Hobbies such as RC racing, artistic design, and graphics would signal an interest in this delivery model.

No prerequisites are required to enter the program.

Interested candidates must apply and be interviewed prior to being accepted.

## Program Delivery:

Students accepted to the program would attend during period 1 & 2 at Burlington Central High School and then would have the choice to complete the day's studies at Central or to return to his/her home school. The SHSM schedule in the morning allows any travel time for students to return to their home school should they choose. This allows for students to participate in sports or other extra curricular activities.

## Application Details and Contact Information:

Students can obtain an application in his/her guidance office. For more information on the SHSM Manufacturing program, visit [www.haltonpathways.ca](http://www.haltonpathways.ca). To register for the program, go to [www.myblueprint.ca/halton](http://www.myblueprint.ca/halton) or visit your school to career guidance counselor.



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