



engineeringCentral ^{Stratford}

Computer Engineering

WHAT IS ENGINEERINGCENTRAL?

Falling under the digitalCentral Specialist High Skills Major Program at Stratford Central, engineeringCentral is the final component of the most comprehensive technical education offered in the Avon Maitland District School Board. In conjunction with Communications Technology (where students learn how to control digital media) and Information and Computer Science (where students learn computer programming), engineeringCentral will provide the pivotal hardware component.

Labeled “Computer Technology” in the Ontario Curriculum guide, and featuring Computer Engineering courses at the senior level, the program is an introduction to computer engineering concepts: computer hardware and software, computer interfacing, programming, and networking; analog and digital electronics; and robotics.

WHY SCSS?

As a school with a strong reputation for Information and Communications Technology, this program rounds out the Information Technology education we offer. It fits perfectly with our ICT Specialist High Skills Major focus. We currently offer the longest-running and most established Communications Technology program in the area, and ICS Software Engineering has grown significantly over the past few years. We are now able to extend a full ICT educational experience with Engineering.

BENEFITS

As an additional benefit to the SCSS community, this program is not offered elsewhere in AMDSB. Thus, students who are interested in pursuing engineering can now find the opportunity to get an introduction to it at the secondary school level.

COURSE OFFERINGS

COURSE CODE	COURSE TITLE	PREREQUISITES
TEJ2O	COMPUTER TECHNOLOGY	NONE
TEJ3M	COMPUTER ENGINEERING TECHNOLOGY	NONE
ICS3U	SOFTWARE ENGINEERING	NONE
TEJ4M	COMPUTER ENGINEERING TECHNOLOGY	TEJ3M
ICS4U	SOFTWARE ENGINEERING	ICS3U

Furthermore, offering a fully-rounded ICT education positions us perfectly for the City of Stratford's stated goal of being a digital media hub. The Computer Engineering program will help prepare students for local post-secondary education facilities, such as University of Waterloo's respected Computer Engineering and Computer Science programs.

Students in the Engineering program will be introduced early to one of the more sought-after and in-demand industries in modern business. SCSS students who are interested in Computer Science or Engineering currently have only two (2) course options: ICS3U and ICS4U. The engineeringCentral courses provide a balanced education unlike any other in the area.

There are many regional, provincial, and national robotics and engineering contests that our students could enter. As the program grows and matures, and as we nurture our very capable students, they could do very well at these competitions and further expand their resumes.