



COMPUTER SCIENCE AND ENGINEERING

Earl Haig Computer Science and Engineering program is a 21st century curriculum that includes in-class, online and experiential learning that is delivered by industry certified professionals. The Computer Science courses help students to develop the foundational programming skills in Python, C++ and to introduce students to formal logic and system analysis. Computer Engineering starts with computer hardware, operating systems, electronics, and robotics. It offers in-depth knowledge in computer networks, critical thinking skills, digital collaboration and problem-solving.

Course codes: TEJ201, TEJ3M1, ICD201, ICS3U1, ICS4U1



TECH DESIGN

The Tech Design courses emphasize the design process, illustration and communication, project development, time management skills, safety procedures within the workshop environment. Students will learn to develop design ideas and concepts through manual technical illustration processes. Also expand written and oral communications skills necessary to explain/interpret design criteria and build processes. All students will become acquainted with basic workshop tools identification and purpose in order to produce a design project that they get to keep as an extension of their scholastic experiential portfolio. Depending on individual focus, students may choose from a variety of materials ranging from wood and related composites, metal forging, fabric, leather etc.

Course codes: TDJ201, TDJ3M1, TDJ4M1



HAIRSTYLING AND AESTHETICS

This program has something for all students, whether general interest or you have a passion for all things hair, makeup and skin care. With a focus on safety, grade 10 students learn the basics of hairstyling, shampooing, skin care and special effects makeup, manicuring and nail care as well as transferable life and communication skills. The senior programs expand on the foundation of grade 10 and includes safety, haircutting, hair colouring, highlighting theory and application, straightening, texture services, make up theory and application as well as business ownership and career paths in the beauty industry will also be examined. Students research post-secondary pathways, including opportunities to achieve a Level 1 certification via the Ontario Youth Apprenticeship Program will also be explored.

Course codes: TXJ201, TXJ3E1, TXJ4E1



HOSPITALITY AND TOURISM

Hospitality and Tourism enables students to acquire or expand knowledge and skills related to the Culinary Arts field. Students will also learn about health and safety standards, career opportunities and develop culinary skills that will last a lifetime. The program combines theory with practice allowing students to be fully exposed to the opportunities in the field while gaining some life skills along the way. The hospitality industry will rebound and continue to grow post-pandemic thereby opening up career opportunities. Students often gain easy employment to entry-level positions and progressing to management opportunities. Studies in this field can lead to a great career, with many future prospects including working around the world in operations, strategy, business development and services leadership.

Course codes: TFJ201, TFJ3C1, TFJ4C1



TECH DESIGN: ARCHITECTURAL AND MECHANICAL DESIGN

This course provides students with opportunities to apply the principles of technological design to challenges in residential communications, manufacturing, electronics, transportation, architecture, industrial and consumer products, health and safety equipment, and environmental services. Students will identify user needs, estimate labour and material costs, analyze material characteristics, and illustrate design solutions, using traditional and computer based methods. They will also acquire the basic design skills required for post-secondary studies in engineering, manufacturing, architecture. Software such as AutoCAD and Autodesk Inventor may be used.

Course codes: TDA3M1, TDA4M1



COMMUNICATIONS: DIGITAL MEDIA ARTS AND TECHNOLOGY

Come learn how to design and produce communication media in print, moving imagery and interactive new media by using industry-standard, creative software, Adobe Creative Cloud. The Digital Media Arts and Technology curriculum covers such topics as graphic design, 2D and 3D animation, digital photography, video production, motion graphics and special effects. Develop dynamic, digital literacy skills transferable in today's age of computerized content or prepare for a solid foundation for post-secondary education and potential career opportunities as animator, graphic designer, movie director, photographer, editor, illustrator etc.

Course codes: TGJ201, TGJ3M1, TGJ4M1

EXPLORING TECHNOLOGY

Enables grade 9 students the opportunity to design and create products and/or provide services related to the various technological areas within the school, working with a variety of tools, equipment and software used in industry. **Course code:** TIJ101

TAKE TECH TODAY



Select your Tech Courses at MYBLUEPRINT.ca/tdsb or ask your guidance counsellor.