

## **2022-2023 Course option descriptions**

### **Secondary 3**

#### **Robotics**

This course provides an introduction to computer programming, robot design, and design-thinking principles. The program builds on the junior robotics course offered in cycle one. This course is designed to explore the interconnections between artificial intelligence yourself (AIY), computer automated design (CAD) & 3D printing, and gaming. This course aims to help students develop and apply previously learned skills to the First Tech Challenge (FTC) framework. A group competition will incorporate principles of teamwork, research, and robot design.

#### **Exploration Vocational Training**

In collaboration with VACC (Verdun Adult and Career Center) Students are exposed to a variety of hands-on experiences with; cooking, plumbing, electricity, woodworking, and how to design and create a small business

#### **Leadership**

The leadership program focuses on helping students develop communication skills, organizational skills and helps them understand the importance of being a team-player. Leadership class gives students the opportunity to plan events, both in and out of the school, that benefit not only their peers but their community. Through the process of planning events collectively, students will learn more about themselves and become more responsible. The course is very student centered, with the teacher playing more of an advisor role; therefore, time management and dedication are important on the student's behalf.

### **Secondary 4**

#### **Leadership**

The leadership program focuses on helping students develop communication skills, organizational skills and helps them understand the importance of being a team-player. Leadership class gives students the opportunity to plan events, both in and out of the school, that benefit not only their peers but their community. Through the process of planning events collectively, students will learn more about themselves and become more responsible. The course is very student centered, with the teacher playing more of an advisor role; therefore, time management and dedication are important on the student's behalf.

#### **Sports Fitness**

Students are introduced to personal fitness, and also participate in a variety of sports throughout the year. The focus is on being active by participating on a personal level. Team sports will also ensure that each member of the team has a role no matter how big or how small.

## **Secondary 5**

### **Biology**

Biology is the study of all living organisms and their implications on the world as a whole. In this course, students will widen their knowledge and appreciation of all living creatures, and research how the study of living organisms has allowed society to become better equipped for the future. The main focus of this class will revolve around Zoology, the study of animals.

### **Physics**

This course develops students' understanding of the basic concepts of physics. Students will explore optics, mechanics, kinematics, dynamics and transformations of energy. They will enhance their scientific investigation skills as they test the laws that govern the world around them

### **Chemistry**

The Chemistry program is an extension of the Environment Science and Technology course offered in grade 10. Its main purpose is to enrich students' scientific knowledge and prepare them for the Science programs in CEGEP and university.

### **Sports Fitness**

Students are introduced to personal fitness, and also participate in a variety of sports throughout the year. The focus is on being active by participating on a personal level. Team sports will also ensure that each member of the team has a role no matter how big or how small.

### **Media**

The media landscape is vastly different than it was just a generation ago. Content creation, which used to cost hundreds of thousands, if not millions of dollars, was wholly dependent on the support and approval of major radio stations, television networks, as well as record and film companies. Today, dramatic advances in technology, combined with the equally dramatic reduction of production costs, has given students not only a voice they have never had, but also the possibility of amplifying it. Students will look at what makes a successful broadcast, whether it be blog, podcast, music video, YouTube channel, advertisement or short film, and then put those insights to work by actually creating and producing content of their own.