

**Lashburn High School**  
**2020-2021 Course Selection Information**  
**Grade 12**

**General Information:**

- Students will consult with Principal and Grad Coach in the fall to ensure they are on track to graduate
- We encourage all students to take 8 credits minimum. Less than 8 are allowed, in consultation with the Principal and Grad Coach
- All students must take:
  - ELA A30 and ELA B30
  - at least one 30 Level Canadian Studies (History 30 or Indigenous Studies 30\*)  
\*not offered this year
  - total credit number to graduate must be a minimum of 24

**Semester 1 – Fall 2020**  
**Course Offerings**

**English Language Arts A30**

**Prerequisite:** *ELA 20*

ELA A30 examines the historical and cultural issues of our Canadian heritage. Specifically, ELA A30 addresses national issues as they are reflected in the traditional and contemporary literature of Canada and its regions. The motifs that frame the course are Canadian Perspectives: Distinct and Rich and Canadian Landscapes.

**History 30**

What does it mean to “be a Canadian”? Canadian Studies spans the era of pre-Confederation to modern-day Canada. Students will examine past and present events and issues that have helped to shape Canada. Key content areas may include: the influence of Canadian geography, the history and relationships of Canada and its Indigenous peoples, Government and the Charter of Rights and Freedoms, the Confederation Era, immigration and the settlement of Canada, the role of Louis Riel and the Métis, Western Alienation, French/English relations, Canada’s role in the World Wars, the Great Depression, Canadian/ American relations, and Canada’s ever expanding role in today’s global economy.

**Math: Pre-Calculus 30**

**Prerequisite:** *Pre-Calculus 20*

This pathway is designed to provide students with the mathematical understandings and critical-thinking skills identified for entry into post-secondary programs that require the study of theoretical calculus. Topics include: the unit circle, trigonometric functions, trigonometric equations and identities, logarithmic and exponential functions and equations, counting principles, transformations and composition of functions, radical functions, rational function and polynomial functions.

### **Math: Workplace & Apprenticeship 30**

**Prerequisite:** *Math: Workplace & Apprenticeship 20*

This course is designed to provide students with the mathematical understandings and critical-thinking skills identified for entry into most trades and for direct entry into the work force. Topics include: trigonometry and measurement, transformations, logical reasoning, measures of central tendency, linear relations, probability, business and financial mathematics.

### **Biology 30**

**Prerequisite:** *Health Science 20*

Students will explore life and evolution through multiple perspectives and they will learn that evolution is a unifying theme of Biology. Students will also learn about the organization of life through investigating cells and cell processes, biological classification, and comparing the anatomy and physiology of organisms in various kingdoms. There will also be an emphasis on genetics and biotechnology. Students will explore patterns of inheritance and the storage, transmission, and expression of genetic information at the chromosomal and molecular levels. Students will complete an independent study unit to investigate various biological phenomena.

### **Career & Work Exploration A30/B30**

*Career & Work Exploration is offered in both semesters. Students may take this course in EITHER semester, or BOTH. If this class is selected in both semesters, students will earn two credits at the 30 level.*

This course offers students an opportunity to access career development information in both the classroom and in a community setting. Students will gain valuable interactive experiences both in and out of the classroom as they are introduced to the community as a learning environment. Job placements in volunteer agencies and businesses are part of this course. Students (or parents) must be able to provide transportation to the workplace, unless the student can find a placement in town.

### **Visual Art 20/30**

*Visual Art is offered in both semesters. Students may take this course in EITHER semester, or BOTH. If this class is selected in both semesters, students will earn credits at two different grade levels*

Students will explore illustration, painting, sculpture, and more, while also exploring various sources of artistic creativity. Students can expect that the following types of projects will be included in this course.

- Tile Mosaic
- 3D sculptures- wire / book
- Digital art- illustrator

**Cost \$15.00**

## **Financial Literacy 20**

Financial Literacy 20 focuses on seven areas: earning, saving, spending, borrowing, sharing, investing and protecting. The course is an introduction to financial issues and decisions that students may already be facing and addresses topics such as the purposes of money, the importance of decision making as it applies to finances, information security, budgeting fundamentals, cell phone contracts, maintaining accurate financial records, the concept of interest and career opportunities in the financial industry.

## **PAAS B30 – Carpentry & Construction Focus**

No experience required. This class provides an intermediate approach to common woodworking tools and techniques in a safe and controlled environment. Students will learn cabinetry basics, how to use common hand and power tools, how to cut and fit effective joints, and how to choose the correct materials (natural wood or engineered product) for a particular application. Students will get to plan, budget for and execute a woodworking project of their choosing.

**Cost \$25.00 minimum (may increase with parent approval of project)**

## **Information Processing 10**

*Information Processing is offered in both semesters. Students may take this course in EITHER semester, or BOTH. If this class is selected in both semesters, students will earn credits at the 10 and 20 level.*

This course is an introduction to computer applications skills from a personal use perspective. Students will take certification courses through Jasperactive and become Microsoft Certified (students will choose from a variety of applications to become certified in including: Word, Excel, Powerpoint, Outlook, Access) as well as digital citizenship.

## Semester 2 – Winter 2021 Course Offerings

### English Language Arts B30

**Prerequisite:** ELA 20

The ELA B30 course addresses global perspectives by using traditional and world literature and philosophies entrenched in contemporary society. The course is guided by two general themes, The Search for Self and The Social Experience. ELA B30 emphasizes advanced reading skills and challenges the student to investigate, analyze, synthesize, and evaluate course themes. It demands the students write a formal literary paper as well as several other essays.

### Math: Foundations 30

**Prerequisite:** Foundations 20

This course is designed to provide students with the mathematical understandings and critical-thinking skills identified for post-secondary studies in programs that do not require the study of theoretical calculus. Topics include: financial decision making, logical reasoning, counting principles, probability, polynomial functions, periodic functions, logarithmic and exponential functions

**Physics 30 – this course will not be offered in 2021-2022, Grade 11 students who wish to earn this credit, must take it this year**

**Prerequisite:** Physical Science 20

Physics 30 is primarily a study of motion. Students will analyze motion, in one and two dimensions, and the forces that cause motion from the perspective of Newtonian mechanics. Using the conservation laws of momentum and energy, students will analyze and predict the results of interactions between objects. Students will explore gravitational, electric, and magnetic fields and their interactions. Students will also investigate concepts related to modern physics such as quantum mechanics, relativity, and nuclear physics. There is a strong laboratory element to this course. Student inquiry will guide independent investigations of physics-related phenomena.

### Law 30

The theme of Law 30 is “The Law and You”. The required units of student are: Foundations of the Canadian Legal System, Criminal Law, and Civil Law. Additional units of study may include: Family Law, Labour and Employment Law, Contract and Consumer Law, Environmental Law, and International Law. Key content areas include the Canadian Charter of Rights and Freedoms, the Criminal Code of Canada, Tort Law, and other important federal statutes such as the Marriage and Divorce Laws. Mock trials, simulations and court visits will also enhance this course.

### **PAAS A30 – Home Economics Focus**

During the **food studies** portion you will learn the basics of food safety and sanitation required to work in a commercial kitchen along with standard cooking and preparation skills and techniques to start the semester. After this is completed you will have the chance to complete the entertaining with foods and creative baking modules which includes decorating your own personal cake as a final project.

During the **clothing, textiles and fashion** portion you will continue to develop sewing and needlework techniques used to construct garments and other textile products. Projects may include samples, one or two small projects, and a major project chosen by the you and approved by the teacher. As well, you will learn about clothing care and become aware of the role of clothing textiles and fashion in our daily lives.

During the **cosmetology** portion you will learn the basics of skin care. You will learn and practice the steps to a professional or home routine facial for both men and women as well as recipes to make homemade skin care products.

**Cost \$25.00 + project materials for the textiles unit**

### **Robotics 20**

This course focuses on the design, construction, operation and use of autonomous and/or radio-controlled robotic devices, as well as the computer systems necessary for their control, sensory feedback and information processing. Through project based learning, design thinking, and inquiry learning, students will explore the processes and skills needed to design and fabricate physical devices that they will control or automate. Students are able to explore wearable technologies, automation, mobile robotics and animatronics as well as traditional robotic devices. In addition, students will also develop the computational thinking and coding skills necessary to control their robotic or automated devices.

### **Leadership 30L**

Leadership 30 is taught, learned, and evaluated using an inquiry approach to decision making.

Students will explore their self-awareness and their connections between their own leadership styles and values and that of others and understand how it applies to everyday life. They will also develop a sense of empowerment to make a difference in their own and other's lives, within and outside of their communities. Finally, students will apply leadership skills that will enable them to have an impact, as they engage themselves as positive role models, in their school, community and society.

### **Physical Education 30**

The purpose of this course is to promote a lifelong interest in a variety of individual and team activities. Throughout the course students will develop the appropriate motor skills and strategic concepts that will allow for full participation and enjoyment of the activities offered.

### **Information Processing 10/20**

*Information Processing is offered in both semesters. Students may take this course in EITHER semester, or BOTH. If this class is selected in both semesters, students will earn credits at the 10 and 20 level.*

This course is an introduction to computer applications skills from a personal use perspective. Students will take certification courses through Jasperactive and become Microsoft Certified (students will choose from a variety of applications to become certified in including: Word, Excel, Powerpoint, Outlook, Access) as well as digital citizenship.

### **Visual Art 20/30**

*Visual Art is offered in both semesters. Students may take this course in EITHER semester, or BOTH. If this class is selected in both semesters, students will earn credits at two different grade levels*

Students will explore illustration, painting, sculpture, and more, while also exploring various sources of artistic creativity. Students can expect that the following types of projects will be included in this course.

- Coloured pencil
- Pastel
- Watercolour
- Graphite drawing (portraits)

**Cost \$15.00**

### **Career & Work Exploration A30/B30**

*Career & Work Exploration is offered in both semesters. Students may take this course in EITHER semester, or BOTH. If this class is selected in both semesters, students will earn credits at the 20 and 30 levels.*

This course offers students an opportunity to access career development information in both the classroom and in a community setting. Students will gain valuable interactive experiences both in and out of the classroom as they are introduced to the community as a learning environment. Job placements in volunteer agencies and businesses are part of this course. Students (or parents) must be able to provide transportation to the workplace, unless the student can find a placement in town.

## **Additional Course Offerings (off timetable)**

### **Apprenticeship A20/B20/A30/B30**

Apprenticeship credits may be used to meet the Practical and Applied Arts/Arts Education credit requirement or the electives credit requirement in the Regular and Adult 12 programs. In addition, students will be granted one credit for a minimum of 100 hours of eligible trade experience. Students selecting this option must find employment under a certified journeyman and submit a plan for NWSD approval before beginning to work any hours.