

Lashburn High School
2020-2021 Course Selection Information
Grade 11

General Information:

- Students must take AT LEAST 8 credits in Grade 11 – meaning that they can have a MAXIMUM of 2 spare periods
- All students must take:
 - ELA 20
 - at least one 20-level math (Workplace, Foundations, Pre-Calc)
 - at least one 20-level science (Health, Physical, Computer*) *offered last year
 - at least one 20-level social studies (History 20 or Law 30)

Semester 1 – Fall 2020
Course Offerings

English Language Arts 20

Prerequisites: *ELA A10 and ELA B10*

English Language Arts 20 acknowledges that by Grade 11 students are developing a more specialized capability for reflecting and responding to language and literature. It is organized around the idea that life is a journey of experience that has both rites of passage and well-marked transitions. By examining these experiences we are allowed to identify and consider our dreams and goals, and chart the course to reach our destination. Student response in writing and speaking will be direct by two central themes: “Starting Out: Beginning and Becoming” and “Moving Forward: Establishing and Realizing”. Students will develop literary skills in responding to short stories, essays, poetry, plays, novels, and film. ELA20 places special emphasis on the development of longer writing including both the informational and literary essay.

History 20

The history of the 21st century is defined by the events of the one previous. History 20 is the study of the major events of the Twentieth Century. Using the dialectic approach, topics to be studied include an investigation of World War I and II, the Interwar Years including the rise and fall of the totalitarian regimes of Lenin, Stalin, and Hitler, the Cold War, and the fall of the USSR. This course is of particular value to those who may pursue post-secondary education. History 20 also provides valuable background information for the History 30 course.

Math: Foundations 20

Prerequisite: Foundations & Pre-Calculus 10

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: logical reasoning, proportional reasoning, geometry, trigonometry, algebra, statistics and probability.

Physical Science 20

This course combines chemistry and physics in an integrated manner to investigate concepts related to heating and cooling, the foundations of chemistry, including the mole and quantitative analysis of molecules and chemical reactions, and the characteristics and properties of waves (including reflection and refraction using light, sound and water waves as examples). Student inquiry will guide independent investigations of chemistry or physics-related phenomena. ***This course is required for any students wishing to take Chemistry 30 and Physics 30***

Career & Work Exploration 20

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.

Visual Art 10/20/30

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 B20 – 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 10/20

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.

Semester 2 – Winter 2021

Course Offerings

Health Science 20

Health Science 20 is of particular interest to students seeking a career in Health Sciences or related fields or are just interested in being informed consumers of Health Services. Topics include anatomy (structure), physiology (function) and their relationship to health. Nutrition will be introduced through basic biochemistry. Various Health philosophies and ethics will be examined as well as diagnosis and treatment options. Career Exploration will be considered and students will complete an independent study unit. ***This course is required for any students wishing to take Biology 30***

Math: Pre-Calculus 20

Prerequisite: Foundations & Pre-Calculus 10

This course 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: absolute value, radicals, trigonometry, rational expressions and equations, factoring, quadratic functions, quadratic equations, inequalities, reciprocal functions, sequences

Math: Workplace & Apprenticeship 20

Prerequisite: Workplace and Apprenticeship Mathematics 10

This course is designed to provide students with the mathematical understandings and critical-thinking skills necessary to enter into most trades and for direct entry into the work force. Topics include financial mathematics, logical reasoning, geometry, and number sense.

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. 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 A20 – 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 **final unit of the course** a module will be chosen from either cosmetology, life transitions, or another PAA strand depending on your past courses and your interests.

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 20

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 10/20/30

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 20/30

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. If students decide to pursue this registered trade after graduation, completion of these credits are beneficial in the apprenticeship process. 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 NWSB approval before beginning to work any hours.

