Semester One Timetable 2020-2021

Period 1	Physical Education Leadership 120 Metals Processing 110 English 112 Individual and Family Dynamics 120
Period 2	Nutrition for Healthy Living 120 Framing and Sheathing 110 Foundations of Math 110 English 122
Period 3	Journalism 120 (Yearbook) World Issues 120 Wellness through Physical Education 110 Pre-Calculus 120A English 113 Culinary Technology 110
Period 4	Auto Electrical Systems 120 Pre-Calculus 120B English 123 Biology 112
Period 5	Introduction to Accounting 120 Electrical Wiring 110 Growth, Goals and Grit 110 Chemistry 112

Course Descriptions

Period 1

Physical Education Leadership 120
This course develops leadership skills through involvement in physical activities. This course requires a minimum commitment of 30 volunteer hours in the area of leadership. Themes include management, teaching, coaching, officiating, first aid, and organizational planning and leadership theory.

Metal Processing 110
This course is a study of standard machine shop processes used in the manufacture of metal products. Proper operating instruction will be given on a variety of machine tools and the development of basic skills needed to use electric-arc and oxyacetylene welding and cutting processes. Students will apply theory as well as develop practical skills through the production of practical projects. Instructional time of the course will benefit and appeal to those students interested in pursuing a career in the metals processing areas, those who are considering a future education in mechanical engineering or drafting technology areas, and those who would like to explore this area for personal interest or career guidance reasons.

English 112
English 112 and 122 are courses appropriate for students intending to pursue studies at a post-secondary institution. Each of the English courses will provide a wide variety of experiences in speaking and listening, reading and viewing, writing and other ways of representing. English 112 will focus on information and media literacy, encouraging students' expansion and control of their own use of language. Significant literary pieces from the past plus those of contemporary and personal interest should be among the print and visual texts students encounter.

Individual and Family Dynamics 120
The overall aim of Individual and Family Dynamics 120 is to provide students with the necessary knowledge, skills, and abilities to meet the challenges of our dynamic and complex society. The course focuses on the development of resourcefulness to assist students in viewing the family from various perspectives and to make informed decisions about solutions to existing and emerging difficulties occurring in everyday living. The interrelatedness between family and work life is addressed as well as the need to understand better daily family issues and their impact on both the family and work environments. Individual and Family Dynamics 120 has been designed for students who plan to undertake further studies in this field and those who wish to expand their knowledge of family studies.

Period 2

Nutrition for Healthy Living 120
This course studies the science of food relating to Canada's Food Guide and the relationship between food, nutrition and wellness. It emphasizes the decision-making process concerning the use of both human and non-human resources required for safety and sanitation, dietary planning, food preparation and the concept of nutritional wellness. Nutrition issues are discussed regarding food on a global and regional level, food trends and lifestyles, eating disorders, and new food technologies. Hands on laboratory experiments provide an integral part of this program.

Framing and Sheathing 110
This course will provide students with skills and knowledge associated with the framing-in or shell construction of typical single-family dwellings. Students will participate in construction and planning activities, which include interpretation of the National Building Code, blueprint reading, estimating and material layout.

Foundation of Math 110
This course is a pre-requisite for a second Foundations of Mathematics course in Grade 12, providing a pathway designed for entry into academic programs not requiring pre-calculus. It is also a pre-requisite for the pre-calculus pathway. Students develop logical reasoning skills and apply this to proofs and problems involving angles and triangles, the sine law and the cosine law. Students model and solve problems involving systems of linear inequality in two

variables and explore characteristics of quadratic functions. Costs and benefits of renting, leasing and buying are explored, and investment portfolios are analyzed. Students have a choice of this course or Financial and Workplace 110 to complete graduation requirements. This course is a prerequisite for Foundations of Mathematics 120 or Financial and Workplace 120. It is also a pre-requisite or co-requisite for PreCalculus110.

English 122
English 112 and 122 are courses appropriate for students intending to pursue studies at a post-secondary institution. Each of the English courses will provide a wide variety of experiences in speaking and listening, reading and viewing, writing and other ways of representing. English 122 will concentrate on critical and personal response to Canadian and world literature.

Period 3

Journalism 120 (Yearbook)
Journalism 120 provides students with intensive practice in writing and editing. Students learn to identify or generate story ideas, to gather pertinent information and to write and edit their stories with a view to publication. The activities accompanying preparation for publication engage students in creative skills such as writing, design, layout and photography, and in practical skills such as budgeting, meeting deadlines and working with others. Examining examples of journalistic style is an element of the course but writing for publication is the focus.

World Issues 120
World Issues 120 examines various issues that are global in nature and that require a global solution. The concept of the global village is studied, as is the relationship between nations as players in the global community. Various issues are examined to acknowledge the fact that events in any part of the World have a reverberating effect.

Wellness through Physical Education 110
The goal of Wellness through Physical Education 110 is to promote healthy active living for life. The course is intended to encourage a broad-based exploration of a variety of activities, highlighting non- traditional approaches to fitness and wellness (e.g. yoga, hiking, personal training, etc.). The course offers a range of learning experiences for students that encourage healthy active living but are not sport specific. Students will personalize their learning by researching, self-assessing and determining personal preferences for engaging in lifelong physical activity. Students will apply knowledge of fitness and wellness concepts to the creation of a personal healthy active living plan. The curriculum includes a practical activity-based segment (approximately 60%) as well as a classroom component (approximately 40%).

Pre-Calculus 120A
This course follows Pre-Calculus 110 and precedes Pre-Calculus 120B. Students demonstrate and apply an understanding of the effects of horizontal and vertical translations, horizontal

and vertical stretches, and reflections on graphs of functions and their related equations. They are introduced to inverses of functions, logarithms, and the product, quotient and power laws of logarithms and use these laws and the relationship between logarithmic and exponential functions to solve problems. Students are introduced to angles in standard position, expressed in degrees and radians, and to the unit circle. The six trigonometric ratios and the sine, cosine and tangent functions are used to solve problems. First and second-degree trigonometric equations are solved algebraically and graphically with the domain expressed in degrees and radians. Trigonometric identities are proven using reciprocal, quotient, Pythagorean, sum or difference, and double-angle identities. Pre-Calculus 110 is a pre-requisite for this course. Pre-Calculus 120A is a pre-requisite or co-requisite for Pre-Calculus 120B.

English 113

English 113 and 123 are courses intended for students who do not plan to attend academic post-secondary institutions. These English courses provide a variety of experiences with language and texts to develop students' competencies in speaking, listening, reading, viewing, writing, and other ways of representing. English level 3 courses may differ in terms of pace, scope, emphasis and resources from level 2, but all students in all levels will work toward achieving the same English outcomes. High priority is given to student development of reading and viewing comprehension and to effective oral, written, and other communication. Students will concentrate on improving strategies for learning from literary, technical and media texts; practical and personal writing is stressed.

Culinary Technology 110

The Culinary Technology Program is designed to prepare students for employment and/or future education in the food service industry. This technology-driven and skill-oriented program involves not only the "how and why" of food service preparation but focuses on the development of personal skills and knowledge that can be applied to the food service industry. Laboratory experimentation, food preparation and service are an integral part of the program. It gives students life-long learning skills that may be transferable to future training and/or food services employment. Culinary Technology 110 is a prerequisite for Culinary Technology 120.

Period 4

Automotive Electrical Systems 120

This course introduces the theory and operation of automotive electrical systems. Students will begin with a study of the basic principles of electricity, which includes electron theory, magnetism, and electrical symbols. They will then progress to the study of individual components throughout the vehicle. This course would benefit students considering an occupational area involving the maintenance in the automotive, aircraft and marine industries.

Pre-Calculus 120B
This course follows or is concurrent with Pre-Calculus 120A and precedes Calculus 120. Students analyze arithmetic and geometric sequences and series to solve problems. They learn to factor polynomials of degree greater than 2, and to graph and analyze polynomial functions. They also graph and analyze radical, reciprocal and rational functions. These functions along with those studied in previous math courses are used to build a function tool kit. Problems are solved using the fundamental counting principle, permutations, combinations and the binomial theorem. Students explore and analyze limits as x approaches a certain value and left and right- hand limits using correct notation. The continuity of a function and limits that involve infinity are also investigated. Pre-Calculus 120A is a pre-requisite for this course. Pre-Calculus 120B is a pre-requisite for Calculus 120.

English 123
English 113 and 123 are courses intended for students who do not plan to attend academic post-secondary institutions. These English courses provide a variety of experiences with language and texts to develop students' competencies in speaking, listening, reading, viewing, writing, and other ways of representing. English level 3 courses may differ in terms of pace, scope, emphasis and resources from level 2, but all students in all levels will work toward achieving the same English outcomes. High priority is given to student development of reading and viewing comprehension and to effective oral, written, and other communication. Students will concentrate on improving strategies for learning from literary, technical and media texts; practical and personal writing is stressed.

Biology 112
Biology 112 emphasizes the nature of life. Lecture and demonstration methods are used together with a laboratory program. Science 9/10 will prepare students for this Biology course. Topics include biodiversity, cellular matter and energy flow, energy and matter exchange by humans and other organisms, and energy and matter exchange in ecosystems. This course offers a preparation for Biology 122.

Period 5

Introduction to Accounting 120
This course is ideally suited for students who wish to pursue business studies at post-secondary institutions. It introduces the student to accounting procedures, concepts, and applications. Course topics include nature of business, accountancy as a career, bookkeeping procedures, accounting cycle and theory, subsidiary ledgers, accounting and inventory control systems, payroll, adjustments, accruals, partnerships, corporations, statement analysis, and electronic accounting through recommended software packages.

Electrical Wiring 110
The overall aim of this course is to cultivate the need and desire of students to follow safe work practices and to develop the language and work skills of the trade by being able to relate electrical blueprints and specifications to a real job; identify the various materials,

tools, techniques, and rules governing the installation and connection of electrical components used in residential wiring; exploration of employment skills and career awareness in electrical and associated trades (linesman, controls, instruments, and industrial electrician); potential employment options looking at provincial statistics and industry projections; and, identify the certification and continued education available at colleges and universities as well as an awareness of the Canadian Red Seal Certification Program and its professional designation (RSE).

Growth, Goals and Grit 110

Goals, Growth, and Grit: Skills for Success 120 will provide students with skills in three main areas - positive and productive mindsets and behaviors, organizational patterns, as well as functional and critical literacy. Within the broad learning expectations of the course, specific success skills, strategies, and practices will be explored. Students will be supported to apply and transfer these skills, strategies, and practices to other courses and real-life situations. Students will learn how these support postgraduate pursuits.

Chemistry 112

Chemistry 112 emphasizes learning chemistry through the scientific method. The experiments are designed so that students make observations and draw conclusions, which lead directly to important chemical principles. Students will be expected to draw on the knowledge and skills gained in Science 10. Topics include matter and energy in chemical change, matter as solutions and gases, quantitative relationships in chemical changes, chemical bonding in matter and some organic chemistry.