

# JAMES M. HILL MEMORIAL HIGH SCHOOL

## COURSE SELECTION GUIDE

### INTRODUCTION AND GENERAL COMMENTS

The purpose of this guide is to provide pertinent information for students as they select grade 11 and 12 courses. The Graduation Requirements Template should be used as a reference. Please note that all grade 10 courses are required for graduation and are prerequisites for most grade 11 courses.

#### **Choosing Courses:**

Each spring, students select courses for the following academic year. There is a wide variety of courses from which to choose in grades 11 and 12, and a number of factors should be considered when making these choices. It is important that students take time to carefully consider their options since it can be difficult to make changes once scheduling for the year is complete. Additional information may be obtained through the JMH Guidance Department.

#### **Course Load:**

Students are required to take a full course load (5 courses) each semester. All students must attempt 20 credits and complete four semesters. In order to be eligible for graduation, 18 credits are required. A student needing an additional semester past the grade 12 year may take the minimum number of courses to complete graduation requirements, subject to Administration approval.

#### **Course Descriptions:**

All courses have a name and course code.

Open or "0" courses are offered at one level only. e.g. Visual Arts 110, Outdoor Pursuits 110

Level 2 courses are academic/university/college preparatory. e.g. Music 112, Biology 122

Level 3 courses are general/college preparatory. e.g. Modern History 113, English 123

Level 1 courses are enriched university preparatory. e.g. English 111

#### **Compulsory Courses:**

Compulsory courses are courses that must be completed and are required for graduation (see p.5). Please note that requirements for post-secondary institutions vary by program, and students are advised to check the requirements through the Guidance Department.

#### **Pre-requisites:**

Please read the course descriptions and requirements carefully prior to course selection as several courses have pre-requisites. Many courses must be taken in sequence to fulfill the pre-requisite; students without pre-requisites will not be allowed to take the course. For example, Chemistry 112 must be completed before Chemistry 122.

#### **Course Fees:**

Please note that some courses may require additional supplies and/or payment of lab, supply or other fees.

#### **Timetables:**

Timetables are computer-generated and therefore courses fall by chance into either semester. Some listed courses may be dropped due to insufficient enrollment. For senior students, certain courses required for university and college may not be completed in the first semester. However, applications to post-secondary institutions are usually assessed on past, present and predicted performance at the time of application.

#### **Transcripts:**

All grade 11 and 12 courses and final marks are permanently recorded on a student's transcript. The school transcript provides an ongoing record of high school courses taken and marks obtained. It is the official document

required by post-secondary institutions to verify a student's academic record. Transcripts may be obtained through the JMH Guidance Department.

**Transfer Students:**

Students transferring to JMH from other school systems will have their transcript assessed and graduation requirements adjusted accordingly. Every effort will be made to give credit for acceptable work completed.

**Contact Info:**

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Miramichi, NB E1N 2S2

Phone: (506)778-6078  
Fax: (506)778-6137  
<http://jmh.nbed.nb.ca>

### **FRENCH IMMERSION**

Students who wish to graduate with a French Immersion Certificate are required to take all French Immersion courses offered in grades 11 and 12. French Immersion courses are indicated as FI.

### **CERTIFICATE OF PROFICIENCY**

The Certificate of Oral Proficiency is issued to grade 12 students either in the **Immersion or PIF program** and indicates a student's level of proficiency. This certificate is awarded by the Department of Education after an assessment by professional evaluators. The certificate is presented upon completion at the end of the semester. There is no cost for this assessment.

### **ENROLLMENT GUIDELINES**

All courses are subject to limited enrollment and may be cancelled if numbers do not warrant a place in the timetable. Staffing allocations ultimately determine availability of sections/courses. Administration reserves the right to review section/course numbers each semester.

## GRADUATION REQUIREMENTS

Eighteen (18) credits, all of which are grade 11 and 12 credits (with the exception of NRF 10) are required for graduation. Of the required courses there are including seven (7) compulsory courses. Only TWO local option and ONE Co-Op course may be used for the 18 required credits.

Local option courses include: Early Childhood Services 120, Mindfulness 120, Psychology 120, Advanced Outdoor Pursuits 120.

Grade 9 English Language Proficiency Assessment is a requirement for graduation.

The pass mark for all courses, effective September 2002, is 60%.

### **YEAR 10 COMPULSORY COURSES COMPLETED:**

_____	_____	Math 10 (2 courses: GMF & NRF)	_____	PIF 10/FI Language Arts 10
_____	_____	English 10	_____	FI/Health & Phys Ed 10
_____		FI/Social Studies 10	_____	FI/Music 10
_____		FI/Science 10	_____	Elective (may count toward 11 & 12 compulsory or elective course)

### **YEAR 11 & 12 COMPULSORY COURSES (7):**

\_\_\_\_\_ ENGLISH 111, 112, or 113 (2 credits)  
\_\_\_\_\_ ENGLISH 121, 122 or 123  
\_\_\_\_\_ MATH – Foundations of Math 110 (academic) OR Financial & Workplace Math 110  
\_\_\_\_\_ SCIENCE – ONE COURSE from any of:  
Physics, Biology, Human Physiology 110, Chemistry, Introduction to Environmental Science 120, Automotive Electrical Systems 120  
\_\_\_\_\_ MODERN HISTORY 111, 112, OR 113  
\_\_\_\_\_ FINE ARTS/LIFE ROLE DEVELOPMENT – ONE COURSE from any of:  
Visual Arts 110/120, Individual & Family Dynamics 120, Reading Tutor 120, Music 112/122/120, Physical Education Leadership 120, Theatre Arts 120, Entrepreneurship 110, Graphic Art & Design 110, Outdoor Pursuits 110, Co-Operative Education 120, Wellness Phys Ed 110, Culinary Tech 110/120, Dramatic Arts 120, Framing & Sheathing 110, Power Train & Chassis 110, Internal Combustion Engines 110, Metals Processing 110/120, Metals Fabrication 110, Residential Electric Wiring 110

### **YEAR 11 & 12 – ELECTIVES AND/OR LOCAL OPTIONS:**

8. _____	15. _____
9. _____	16. _____
10. _____	17. _____
11. _____	18. _____
12. _____	19. _____
13. _____	20. _____
14. _____	

**COURSE PLANNING GUIDE**

**GRADE 11:**

1 & 2. English 11 (This is a year-long course, worth two credits – refer to page 5)\_\_\_\_\_

3. Math 11 (refer to page 5)\_\_\_\_\_

4. History 11 (refer to page 5)\_\_\_\_\_

5. Science (refer to list on page 5)\_\_\_\_\_

6. Fine Arts/Life Role Development (refer to list on page 5)\_\_\_\_\_

My selections:

Acceptable Alternatives:

7. \_\_\_\_\_

8. \_\_\_\_\_

9. \_\_\_\_\_

10. \_\_\_\_\_

**GRADE 12:**

1.English 12 (1 credit)\_\_\_\_\_

My selections:

Acceptable Alternatives:

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

6. \_\_\_\_\_

7. \_\_\_\_\_

8. \_\_\_\_\_

9. \_\_\_\_\_

10. \_\_\_\_\_

# **COURSE CATALOG**

## **HUMANITIES**

### **MODERN HISTORY 111**

This is an enriched course for students desiring an in depth approach to history. Beginning with the reasons for the French Revolution and ending with the impact of the Cold War, students will use historical thinking, research and analysis to examine events and their consequences. Extensive use is made of the seminar method and Socratic circles. For the university bound student, for the student who reads avidly and for the student who likes to express himself/herself both orally and in writing, this course should interest you.

### **MODERN HISTORY 112**

#### **FI MODERN HISTORY 112**

This course is designed for students who plan to attend post-secondary institutions. Students will learn about the most significant events and forces in the western world over the last 300 years, which include rights and revolution, nationalism and war. Students will become increasingly proficient in historical thinking, research and analysis and will demonstrate a competence in written and oral expression.

### **MODERN HISTORY 113**

This course will enable the student to examine and become aware of the causes and impact of certain historical events and forces that have shaped the modern world. Topics include the French and Industrial Revolutions, war and nationalism, totalitarianism and total war, crimes against humanity, and war by proxy. Students will practice historical thinking skills and be able to make connections between historical events and the present. This course will appeal to students with various learning styles.

### **POLITICAL SCIENCE 120**

As an introduction to politics, this course teaches basic political theory, structure, and terminology, so students can examine and understand current political issues facing our nation. Students will learn how Canada is governed, democratic rights and responsibilities, and how our nation interacts with the global community. The goal is to promote political awareness of, and personal interaction with, politics. Every Canadian has the right to vote, and should understand how and why we do it. Students will become familiar with the principals of democracy, the Canadian voting process, current political figures, and will learn about political, legal and economic issues facing the nation. By the end of the semester, students are better informed, stronger critical thinkers, and empowered to participate as local, national, and global community members.

### **CANADIAN GEOGRAPHY 122**

This course provides a general introduction to global physical geography. It investigates how Canadian geography affects our lifestyle, and employment. Students will learn about Canadian regions, climate, and population demographics. Further, the course reflects on how Canadian geography relates to our natural resources, and how this affects our trade, both domestic and international. In turn, this course will show how Canadian geography influences our relationships between provinces, and with other nations around the world. Students will explore the challenges that come with living within this country, as well as current and future environmental concerns, and the social and economic challenges facing our country.

## **CANADIAN HISTORY 122**

Beginning prior to Confederation, this course aims cover the first 150 years of our nation's collective history, as we evolved from colonial partner to independent global leader. The course will discuss the foundations of the Canadian constitution, governance, economics, and social and cultural identities. Particular attention will be placed on our historical relationship with Indigenous people, and how Canada is moving forward with the process of truth and reconciliation. Students will complete a short term paper that encompasses higher level historical research and writing, inclusive of primary sources, research, annotated bibliography, and Chicago style format. Critically, we will explore past Canadian historical foundations, while reconciling current Canadian reality, to promote progressive and positive advances in Canadian society.

**Pre-requisite:** Modern History 112 or 111. This is intended to be a university prep course.

## **PSYCHOLOGY 120 (Local Option, see p. 5)**

This is an elective course open to students in grade 11/12. Students will explore psychology as a science that seeks to answer all sorts of questions about human behavior – why we think, feel and act the way we do. Students will explore motivation and emotion, perspectives on personality development, how we learn, memory, the nature of intelligence, stress and health, social relations and treatments for psychological disorders.

## **SOCIOLOGY 120**

This course is an introduction to sociology. Students will develop the ability to both examine and question the world around them. They will explore the links between society and individual experiences. Through various teaching and learning methods, students will learn about such topics as culture, socialization, social control, social movements, and a special interest topic through a seminar presentation. This is an excellent course for anyone interested in social issues, social inequities, and social justice.

## **WORLD ISSUES 120**

World Issues 120 deals with the issues and events that have shaped, and continue to shape, the modern world. The course covers current political, economic, social and environmental concerns such as the Global Village, Peace and Security, Environmental Problems, Demographic Changes, and Global Economics. World Issues 120 is research based and requires the completion of a series of assignments.

## **ECONOMICS 120**

Since economics plays a part in almost all aspects of our lives, economic literacy is critical. Economics 120 provides that basic literacy through learning about the interaction between supply and demand, as well as the fundamentals of money and banking, producing, and trading. This course will provide students with a basic understanding of our Canadian economic system, as well as factors that affect decision-making as individuals and groups.

## **LAW 120**

This course will provide students with a basic knowledge of the Canadian legal system and its operations, as well as an awareness of the impact of the law on their lives. It will offer an introduction to the concepts and principles of civil and criminal law. Major topics include foundations of the legal system, criminal law, human rights, torts, and family law. Students will experience practical exposure to the law through guest speakers, a courtroom visit and daily current event discussions.

## **PERSONAL INTEREST 110 (FORMERLY KNOWN AS A PASSION PROJECT)**

**\*Choose this course if you are want to enter The Block for personalized learning**

**Passion Projects** are intended to recognize and provide credits to students who initiate and assist in the development of courses tailored to their needs, abilities and interests. A Passion Project may include:

- A prescribed course in the Province of New Brunswick (Example: Spanish 110)
- A topic or theme that extends the curriculum of a prescribed course (Example: Grade 12 Physics student may wish to do an in-depth study of quantum mechanics)
- A topic or theme chosen by the student including work that combines a number of subject areas. (Example: A study of Indigenous Issues in Canada, which may include research and study in Canadian History, Canadian Geography, Canadian Politics, Language Arts, Visual Arts and Music)

**ONE** Passion Project credit may count towards graduation requirements including compulsory course requirements.

**STUDENTS must complete a “James M. Hill Independent Study Application Form”, submitted to the office two weeks prior to the beginning of the semester in which the Passion Project course is taking place.**

## **SECOND LANGUAGES**

### **Registration criteria for FI and PIF**

Students who have taken French Immersion courses are not eligible for PIF Courses.

Students who have transferred from a Francophone School District or withdrew from the French Immersion Program are not eligible to take French Immersion Courses or PIF Language Arts courses (with the exception of French Immersion Language Arts).

### **PIF (Post Intensive French) 110**

This course is designed for students who have successfully completed Post-Intensive French in grades 9 and 10. Different themes are explored to improve students' understanding (reading and listening) and production (speaking and writing) of French.

### **PIF (Post Intensive French) 120**

This course is designed for students who have successfully completed Post-Intensive French in grade 11. Different themes are explored to improve students' understanding (reading and listening) and production (speaking and writing) in French.

### **FI LANGUAGE ARTS 110**

This course is designed to maintain and further develop French linguistic skills by taking into consideration the four aspects of the language (reading, writing, listening, speaking).

Oral participation is essential.

**Pre-requisite:** FI Language Arts 10

### **FI LANGUAGE ARTS 120**

This course is designed to maintain and further develop French linguistic skills by taking into consideration the four aspects of language (reading, writing, listening, and speaking). Oral participation is essential.

**Pre-requisite:** FI Language Arts 110

## **SCIENCE**

### **BIOLOGY 112**

Biology 112 explores the unity and diversity of living things. Students study the development of cell theory, cell structure and function, cellular respiration and photosynthesis. The diversity of organisms that make up the world's ecosystems is also examined, including a study of some of the systems that allow multicellular organisms to maintain dynamic equilibrium. Laboratory work and demonstrations will supplement classes.

### **BIOLOGY 122**

This course is recommended for students who intend to study Science at University. Students begin to focus on biology at a molecular level, including how organisms grow and pass on characteristics to future generations. Topics covered include cell reproduction, genetics and inheritance, DNA and gene expression, genetic engineering, the nervous system, the endocrine and reproductive systems, and evolution. Chemistry 112 would be helpful but is not a pre- or co-requisite.

**PHYSICS 112**

An introductory physics course designed for students intending to attend university or college following graduation. In Physics, students will be introduced to the fundamental laws governing the universe. This learning will be both conceptual and mathematical with investigations to reinforce the course topics. Topics include motion, forces, energy and light.

**Pre- or Co-requisite:** Foundations of Mathematics 110

**PHYSICS 122**

Students planning to take science or engineering at university should take this course. This Physics course is an in-depth conceptual and mathematical analysis of the laws of nature. Topics covered include 2-dimensional kinematics and dynamics, circular motion, gravitation, electric and magnetic fields, static and current electricity. It is highly recommended that students considering this course have successfully completed Pre-Calculus/FI Pre-Calculus 110.

**Pre-requisite:** Physics 112 & Foundations of Mathematics 110

**INTRODUCTION TO ENVIRONMENTAL SCIENCE 120**

The objective of this course is for students to develop the knowledge base and skills for investigating and analyzing environmental issues and for communicating their knowledge and analysis to others.

Students will:

1. Identify the impact of personal behaviours on the environment, and recognize that caring for and sustaining natural environments is an element of responsible global citizenship.
2. Investigate, analyze and compare historical to current land and water use in New Brunswick and the factors that impact our sustainable development.
3. Analyze and propose solutions to current environmental issues through research, experimentation and a presentation of their findings with respect to the issue.

**CHEMISTRY 112**

This is an introductory course in chemistry and continues to build upon chemical concepts learned in Science 10. Students planning on taking Nursing, Engineering or Science (pure and applied) should consider taking this course. Topics covered are classification of matter, elements and compounds, chemical bonding, chemical reactions and balancing equations, stoichiometry, and solutions.

**Pre-/ Co-requisite:** Foundations of Mathematics 110

**CHEMISTRY 122**

Students planning on pursuing post-secondary studies in Science, Engineering or Nursing should take this course. It is a continuation of grade 11 Chemistry. Topics covered include organic chemistry, chemical equilibrium, acid-base chemistry and energy changes. A good background in Chemistry 11 and Foundations of Mathematics 110 is an asset.

**Pre-requisites:** Chemistry 112 & Foundations of Mathematics 110

**HUMAN PHYSIOLOGY 110**

The goal of this course is to build an understanding of the physiology of the human body. This course focuses on developing an understanding of the structure and functioning of each human body system, including the causes, symptoms, and treatments of diseases and conditions. This includes the ways in which the health of each system impacts, and is impacted by, the health of the whole body. By the end of the course, students will have developed a holistic personal wellness plan, demonstrating their understanding of overall health, human physiology, and the effects of disease and lifestyle choices.

## **MATHEMATICS**

### **FINANCIAL & WORKPLACE MATH 110**

This course is the first of two courses designed for entry into many trades and technical programs and for direct entry into the work force. Concepts of right triangles, trigonometry, and angles of elevation and depression are applied to contextual problems. Scale models and drawings of 2-D and 3-D objects are constructed from various views and perspectives. Students are challenged to solve problems that involve numerical reasoning. Costs and benefits of renting and leasing and buying are explored, investment portfolios analyzed and personal budgets developed. Students manipulate and apply formulas in a variety of ways and solve problems using proportional reasoning and unit analysis.

**Pre-requisites:** Geometry, Measurement & Finance 10

### **FOUNDATIONS OF MATHEMATICS 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 and leasing and buying are explored and investment portfolios are analyzed.

**Pre-requisites:** Geometry, Measurement and Finance 10 and Number, Relations and Functions 10.

### **PRE-CALCULUS 110**

This course, followed by later courses in Pre-Calculus and Calculus, is designed for entry into post-secondary programs requiring Pre-Calculus. Students demonstrate an understanding of absolute value of real numbers and solve problems that involve radicals, radical expressions, and radical equations. Students determine equivalent forms, simplify rational expressions, and solve problems that involve rational equations. They develop an understanding of angles in standard position ( $0^\circ$  to  $360^\circ$ ) and solve for these angles using the three primary trigonometric ratios. Polynomial expressions are factored and absolute value functions and quadratic functions are analyzed and graphed. Students solve problems that involve quadratic equations and solve, algebraically and graphically, problems that involve systems of linear-quadratic and quadratic-quadratic equations in two variables. They also solve problems that involve linear and quadratic inequalities in two variables, and quadratic inequalities in one variable.

**Pre-requisite:** Foundations of Mathematics 110

### **PRE-CALCULUS B 120**

This course is a pre-requisite for 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, building a function toolkit. Students are introduced to the concept of limits and determine the limit of a function at a point both graphically and analytically. They explore and analyze left and right hand limits as  $x$  approaches a certain value using correct notation, analyze the continuity of a function and explore limits which involve infinity.

**Pre-/Co-requisite:** Pre-Calculus A 120

### **FINANCIAL & WORKPLACE MATH 120**

This is the second of two courses in the Financial and Workplace pathway designed for entry into post-secondary trades and technical programs or for direct entry into the work force. Topics include measuring, sine and cosine laws, properties of polygons, transformations of 2-D and 3-D shapes, small business finance, linear relationships, data interpretation, and probability. Opportunity is given to research and present an historical event or an area of interest that involves mathematics.

**Pre-requisite:** Financial and Workplace Math 110

## **FOUNDATIONS OF MATHEMATICS 120**

This is the second of two courses in the Foundations of Mathematics pathway designed for entry into post-secondary academic programs not requiring pre-calculus. In statistics students are introduced to normal curves, and learn to interpret statistical data, using confidence intervals, confidence levels, and margins of error. To develop logical reasoning, students analyze puzzles and games, and solve problems that involve application of set theory and conditional statements. The validity of odds and probability statements are assessed and problems are solved that involve probability of two events, the fundamental counting principle, permutations, and combinations. The binomial theorem is used to expand powers of a binomial. Data is represented using polynomial functions, exponential and logarithmic functions and sinusoidal functions to solve problems. This course completes the Foundations of Mathematics pathway.

**Pre-requisite:** Foundations of Mathematics 110

## **PRE-CALCULUS A 120**

This course is a pre- or co-requisite for Pre-Calculus B 120. 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-requisite:** Pre-Calculus 110

## **CALCULUS 120**

This is the last course offered in the Pre-Calculus Pathway, and follows *Pre-Calculus B 120*. This course develops the concepts of average and instantaneous rates of change. Derivatives are determined by applying the definition of a derivative and the derivative rules including the Chain Rule, and are determined for trigonometric functions. Limits and derivatives of exponential and logarithmic functions are found. Calculus techniques are used to sketch graphs of functions, and to solve optimization problems. Problems are solved involving inverse trigonometric functions, involving related rates and involving the application of the integral of a function from a variety of fields. The definite integral and the anti-derivative of a function are determined.

**Pre-Requisites:** Pre-Calculus A 120 AND Pre-Calculus B 120.

*This course is recommended for students interested in post-secondary programs in Science, Engineering and Mathematics, though it may not be a required entrance requirement. Students should check entrance requirements for the specific program and institution in which they are interested.*

## **APPLIED TECHNOLOGY**

### **AUTOMOTIVE ELECTRICAL SYSTEMS 120**

This course introduces the student to the theory and operation of automotive electrical systems. Students will study the principles of electricity, including electron theory, magnetism and electrical symbols. Course content progresses to components of the charging, ignition, starting and lighting systems. Study also includes engine management systems, scanning on-board computers and diagnostics. Students exploring career opportunities in the automotive service industry or related trades would benefit from this course. This course may be used as a Science credit for graduation purposes (see Guidance).

**Pre-requisite:** Internal Combustion Eng. 110

### **COMPUTER AIDED BASIC DESIGN 110**

In this introductory course students create technical drawings, with part of the course emphasizing the process of design. Students will spend a great amount of time using the computerized drafting system and AutoCAD software. Students interested in post-secondary technology programs, graphic design and all fields of engineering would benefit from this course.

### **CULINARY TECHNOLOGY 110**

### **CULINARY TECHNOLOGY 120**

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 food knowledge that can be applied to the food industry. Learning experiences include planning, costing, and preparation for food service.

**Culinary Technology 110** has an emphasis on bakeries, baked goods, breads, and pastries. Students enrolled in Cul Tech 110 are responsible for preparing Culinary Café items.

**Culinary Technology 120** has an emphasis on food and meal preparation in a real restaurant environment. Students enrolled in Cul Tech 120 prepare and serve items at a weekly staff restaurant.

### **FRAMING AND SHEATHING 110**

Students in this course will participate in the planning and construction of wooden structures in a large, well-equipped shop. Students will learn the safe operation of carpentry tools and equipment. Emphasis will be placed on the interpretation of the National Building Code, blueprint reading, estimating and material layout. This course will be of interest to students exploring career opportunities in the building construction industry.

### **INTRODUCTION TO APPLIED TECHNOLOGY 110**

This course is designed an introduction to the trades. Students will gain an insight into the following disciplines: woodworking, metals, electrical wiring and automotive. This course is intended for students who intend to take future trades-type courses and enjoy working with their hands and have a mechanical aptitude.

### **HOUSING AND DESIGN 120**

This course explores various aspects of housing and design through knowledge and applications. Students will explore topics such as architecture and housing styles, influence of history on housing, interior design (using the principles and elements of design), and consumer concerns related to housing such as renting vs. buying. This course is designed for students who are going to study further in this field as well as students who have an interest in housing and design.

### **INTERNAL COMBUSTION ENGINES 110**

The content of this course includes the theory and operation of the internal combustion engine. Students learn the safe operation of tools and equipment used to disassemble, diagnose, service and repair engine components and systems. Emphasis is placed on the development of skills essential for persons entering automotive, heavy equipment or related trades.

### **METALS FABRICATION (WELDING) 110**

Students in this welding course develop basic skills in the safe use of arc and MIG welding equipment. Instruction will also be given in oxygen-acetylene and plasma cutting equipment as well as machines and equipment used to cut and form metals. Students work in a well-equipped, modern welding shop to construct or repair products, such as furniture and cargo trailers. This course will appeal to students interested in exploring opportunities in welding, metal working and mechanical servicing, and many other skilled trades.

### **METALS PROCESSING (MACHINE SHOP) 110**

Students in this course develop skills in the operation of lathes, grinders and milling machines. In the lab they learn a variety of processes used to form and repair metal parts for machines and tools. This course would appeal to students considering a career in the mechanic or machinist trades, mechanical engineering or mechanical technology areas.

### **METALS PROCESSING (MACHINE SHOP) 120**

Students will follow an advanced curriculum and must have excelled at Metals Processing 110.

Pre-requisite: Metals Processing 110

### **MILL AND CABINET WORK 120**

Students in this course build a series of wooden products to learn the safe operation of woodworking tools and equipment. They also learn project planning and estimating as well as finishing and installation of cabinets and furniture. This course will be of interest to students exploring career opportunities in the building construction industry as well as those with a general interest in woodworking.

### **POWER TRAIN AND CHASSIS 110**

This course is designed to develop skills and knowledge in the service and maintenance of the automobile power train and chassis. Emphasis is placed on the function, repair and replacement of components. Topics include: brakes, steering, suspension, wheels, tires, transmissions, differentials, drive lines, and spring and shock assemblies. Students exploring career opportunities in the automotive service industry or related trades would benefit from this course.

## **HEALTH & PHYSICAL EDUCATION**

***NOTE: Physical Education Leadership 120, Outdoor Pursuits 110, and Wellness Phys. Ed. 110 are Fine Arts/Life Role Development courses.***

### **MINDFULNESS 120 (Local Option)**

Mindfulness is learning to be in the present moment without judgment. The Learning to Breathe curriculum is designed to teach ways to reduce stress, manage emotions and gain greater control over your thoughts and actions. The curriculum is based on the acronym BREATHE: B=Body; R=Reflections; E=Emotions; A=Attention; T=Tenderness; H=Habits; E= Empower.

### **NUTRITION FOR HEALTHY LIVING 120**

This course will provide students the opportunity to design and implement both a workout plan, as well as a nutrition plan, in order to promote healthy living practices. Students will look into different nutrition and training programs to build and maintain a schedule that fits their personal fitness needs. Nutrition specialists within the community will be consulted in order to advise each student's nutrition choices. Much of this course will be carried out in the fitness room.

### **OUTDOOR PURSUITS 110**

The focus of this course is to develop personal outdoor recreation skills based on environmental ethics. Class outings are compulsory and may take place during class or for an extended period of time. The class will participate in various half day and full day outings as well as a mandatory overnight camping excursion. The course will take advantage of local outdoor adventure areas; activities may include hiking, canoeing, rock climbing, and swimming. (Many of these activities have a high risk of injury when safety guidelines are not followed.) Students must be prepared to plan, lead and evaluate outing experiences from a personal and group perspective.

Students are admitted to the course based on:

1. Strong attendance during the previous academic year.
2. Ability to work independently and collaboratively with minimal supervision.
3. Mature and responsible work ethic.

Students must also be recommended by two teachers who have taught them in the past and know them well enough to comment on the qualities indicated on the application form.

**Application and recommendation forms are available from the PE Department**

### **ADVANCED OUTDOOR PURSUITS 120**

Students will follow an advanced curriculum and must have excelled at Outdoor Pursuits 110.

Pre-requisite: Outdoor Pursuits 110

**Application and recommendation forms are available from the PE Department**

### **PHYSICAL EDUCATION LEADERSHIP 120**

The focus of this course is to develop leadership skills through the medium of physical education and recreation. The following inter-related units will be considered throughout the semester: Leadership Theory, Sports Administration, Teaching, Officiating, Coaching and Sports Medicine. Students will also be required to teach specific lessons/skills as part of their developmental experience. Students will be expected to participate in public speaking and frequently conduct presentations to the class. In addition to the academic requirements in the classroom, students must also commit to volunteering 30 hours of extracurricular involvement outside the normal classroom setting. Some of this time may be assigned at lunch time (extra-murals, Cat Shack, etc.) or after school. Students failing to complete this mandatory component of the course will not receive the credit.

Students are admitted to the course based on:

1. Strong attendance during the previous academic year.
2. Ability to work independently and collaboratively with minimal supervision.
3. Mature and responsible work ethic.

Students must also be recommended by two teachers who have taught them in the past and know them well enough to comment on the qualities indicated on the application form.

**Application and Recommendation forms are available from the PE Department**

### **WELLNESS PHYS ED 110**

This course is intended to allow students an opportunity to be active, while further enhancing their decision-making skills towards personal wellness. This course will be offered to grade 11 and 12 students only. 40% of the course will be theoretical in a classroom setting with the remaining 60% spent on practical work in an active setting. This course will help students increase their awareness of the role of physical activity towards a healthy, active lifestyle.

## **FINE ARTS**

### **GRAPHIC ART AND DESIGN 110**

If you find logos, sign designs or illustrations interesting and would like to learn how to successfully create them, then Graphic Art and Design 110 will prove both enjoyable and useful. You will learn the technical side of the graphic process, along with how to communicate with targeted intent. Images will be created by hand and then transferred to a computer via Photoshop.

### **MUSIC 112 (Instrumental/Voice/Guitar/Piano)**

This course is for anyone who has successfully completed Music 10, or for anyone who is currently studying voice, guitar, or piano and has a strong sight-reading ability. Approximately 50% of class time is spent on developing playing technique and in performing a varied repertoire. The balance of the time is spent on theory, history and music appreciation.

**MUSIC 122 (Instrumental Composition)**

Students enrolling in this course must have successfully completed Music 112 or have private music study equivalent to grade 6 instrumental or voice, offered by The Royal Conservatory of Music. The music 112 course is constructed in a style that can be described as a “guided independent study”. The course is comprised of units which are designed to encourage students to research, analyze, and create music. Students will also learn to compose and use recording equipment.

**DRAMATIC ARTS 110/120**

This course will focus on developing and improving upon performance skills, namely acting, singing, and dancing. Students will be expected to contribute significantly each day through discussions, individual and group performances and critiques, and productions. For this reason, a good attendance record is expected.

**Pre-requisite:** Dramatic Arts 110

**THEATRE ARTS 120**

This course will introduce the grade 11/12 students to a cross-sectional study of theatre and various approaches to theatre. Emphasis will be placed upon the study of theatre from a practical perspective. Other areas of interest will involve props, costumes, make-up, lighting design, stage structure, play writing and production. Students are expected to contribute significantly each day to group discussions, projects and productions. As well, a good attendance record is expected.

**Note:** *Fine Art/Life Role Development credit.*

**VISUAL ARTS 110**

The student will be working towards an emphasis on personal expression and individual style. This course focuses on drawing, painting, print making, sculpture, art appreciation and art history.

**VISUAL ARTS 120**

This is the second course of the Visual Arts program. Many of the same areas as in the Visual Arts 110 will be covered, but in much greater depth with an emphasis on further developing one’s personal style. A presentation portfolio of student artwork will also be developed.

**Pre-requisite:** Visual Arts 110

**CHILD STUDIES 120**

This course is designed for students who are interested in pursuing post-secondary education in early childhood education, pediatric medicine, nursing, child psychology or social work. Topics include heredity, conception, prenatal development, pregnancy and childbirth, as well as child growth and development.

**COMPUTER SCIENCE 110**

This is an introductory course in structured programming in PYTHON language. The theory component is limited to programming applications. Topics include a variety of programming statements (print, if, for, while, etc.), entering data, decision making, loops, graphical user interface, and functions. Students selecting this course should be able to work independently and have good mathematics skills (70%+). Students use the computer as a problem-solving tool and will find this course of value in future studies or careers in Engineering, Business Administration, Technology and Science.

**COMPUTER SCIENCE 120**

This course will include a study of high-level languages (mostly JAVA). Advanced concepts and procedures are presented to provide a more comprehensive understanding of computer usage and applications. This is a desirable course for students intending to follow a computer science or data analysis program at a post-secondary institution. Computer Science 110, although recommended, is not a requirement.

## **DIGITAL PRODUCTION 120**

Are you interested in digital imaging, simple animation or digital audio? If so, Digital Technologies 120 can offer you the skills which will allow you to create multimedia and web pages. This class is a skill-based course designed for those who are motivated to learn more about web design, editing images, animation and audio recording.

## **EARLY CHILDHOOD SERVICES 110**

### **EARLY CHILDHOOD SERVICES 120 (*Local Option, see p. 5*)**

The Early Childhood Services Courses are designed to enable students to develop personally as they plan strategies and programs to build understanding of child development as it relates to children's enthusiasm for life-long learning. Preschoolers (3-4 years old) will attend a Playschool program organized by the students for 15 weeks during the semester.

The courses focus on the skills to prepare students to work with preschoolers. It is a "how to" program, applying basic theory to hands-on activities. It will enable students to develop skills in: self-assessment, personal discipline, goal setting, decision making, problem solving, communication and conflict resolution.

Early Childhood Services 110 has emphasis on the development of children from infancy to 5 years old. Some of the topics include: Daily Routines, Guidance, Arranging Space, Nutrition, and Types of Childcare Programs.

Early Childhood Services 120 has emphasis on identifying roles and responsibilities of the ECE. Some of the topics include: provincial standards, identifying personal awareness strategies, gaining knowledge and understanding of the profession, and creating safe and healthy environments.

## **ENTREPRENEURSHIP 110**

An exploratory course for students interested in the world of small business, this course is designed to involve students in the development of ideas and skills necessary to bring business ideas to the marketplace. This course allows

students to see themselves as business people

and appreciate the wide range of opportunities available to creators of an idea, owner-operator of a business, or employer-manager of a small business in today's global economy. There is a written business plan component and several in-class presentations. If you want to start your own business or are interested in how business works—this course is for you.

**Note: Fine Art/Life Role Development credit.**

## **FASHION TECHNOLOGY 110**

### **FASHION TECHNOLOGY 120 (*Local Option, see p. 5*)**

#### **Pre-requisite: Fashion Technology 110**

The Fashion Technology courses are designed to explore the various techniques and equipment used in the Fashion Industry to construct and assemble various garments and products within the Industry. Learning involves basic construction techniques, small projects and completion of a personal garment. Students will learn the basic operation of a sewing machine and serger.

Fashion Technology 110 has emphasis on such skills as: casing, centered zipper, buttonhole, facing, interfacing, machine hemming, seam finishes, gathering, hand-stitching and single dart.

Fashion Technology 120 has emphasis on such skills as: those listed in grade 11 plus a lapped zipper, double dart, waistband, sleeve, collar, cuff, hem (blind-stitch) and lining.

### **FASHION DESIGN 120**

This course is designed to give students the opportunity to create, learn, and explore in the field of fashion. Designer studies, the clothing industry, fashion promoting and marketing, textile identification, product knowledge, elements and principles of design are all a part of Fashion Design. In addition to theory, the hands-on work includes designing a basic accessory, fashion sketching, construction of a garment, creating a project from recycled clothing, and an introduction to basic knitting and crocheting. Basic sewing will NOT be taught.

**Pre-requisite:** Fashion Technology 110 or demonstration of basic sewing skills.

### **HOSPITALITY AND TOURISM 110**

Students will explore the sectors of the Travel Industry including accommodations, food and beverage, adventure tourism, and transportation. Students will have the opportunity to create and evaluate Hospitality and Tourism through its past and into the future. Students will learn valuable customer service skills and create a dream vacation for themselves through a term project. The skills learned will benefit the students with transferable skills for future employment opportunities. This course will explore areas of travel and tourism opportunities around the globe.

### **HUMAN SERVICES 110**

The overall aim of Human Services is to increase students' awareness of the importance of human service work. Inclusive communities and an aging population are creating many opportunities in the human service field. This course will develop work-related competencies and explore post-secondary learning, innovations and careers in the human service industry.

### **FI/INDIVIDUAL AND FAMILY DYNAMICS 120**

Students will explore their own personal development through the study of themselves and their relationships with others. Topics such as personality development, relationships, dating, love, marriage and family, sexuality, reproductive systems, birth control and sexually transmitted diseases, wellness and aging, will be studied. This course is an excellent introduction to studies in Sociology, Psychology, Teaching, Social Work and Family Life Education.

**Note:** Fine Art/Life Role Development credit.

### **INTRODUCTION TO ACCOUNTING 120**

This course introduces grade 11 and/or grade 12 students to the procedures, concepts and applications of accounting. Topics which will be covered include the nature of business, accounting as a possible career, bookkeeping procedures, accounting theory, and the entire accounting cycle. In addition, we will look at various forms of business enterprises such as sole proprietorships, partnerships and corporations. This course is designed for students who intend to pursue studies in business at a post-secondary institution.

## **ENGLISH**

### **ENGLISH LANGUAGE ARTS 111**

**(2 credits--full year)**

This enriched course is recommended for students who excelled in grade 10 English and who enjoy literature. Students will be expected to think critically and independently, engage in meaningful academic conversation, and devote the required time and energy to the production of engaging texts. Regular attendance is important since students will be required to work in groups to prepare seminars and projects.

**Pre-requisite:** English 10

**ENGLISH LANGUAGE ARTS 112****(2 credits--full year)**

This course is designed for students whose future plans may include university study. The areas of study focus on formal and informal composition, oral communication to convey ideas, analysis of various literary texts, and exploration of literary theories and perspectives. Students will work independently and collaboratively; regular attendance is very important.

**Pre-requisite:** English 10**ENGLISH LANGUAGE ARTS 113****(2 credits--full year)**

This course is designed for students whose immediate future plans include the applied technologies. The areas of study focus on practical reading, writing, and speaking skills. Students will engage in a variety of activities geared toward improving technical literacy skills. Most work is done in class and students are expected to work well in groups. Regular attendance is expected.

**Pre-requisite:** English 10**ENGLISH LANGUAGE ARTS 121****(1 credit)**

This advanced level course is designed for students who excelled in English 111/112. It provides opportunity for the student to appreciate, experience, and interpret literature through group discussion and an application of literary theory and criticism. Class members are expected to contribute to guided discussions and are urged to develop an independent and critical understanding of material (print, visual, and audio).

**Pre-requisite:** English 111/112**ENGLISH LANGUAGE ARTS 122****(1 credit)**

This course is designed for students whose future plans may include university study. Students are expected to exercise independent and critical thinking as textual material is studied as a class, in groups, and individually. Increasingly challenging materials will be presented to students to guide them along the continuum of text complexity.

**Pre-requisite:** English 111/112**WRITING 110**

This is an elective course for grade 11/12 students who wish to improve and enrich their writing skills. The focus will be on writing as a process: brainstorming, outlining, drafting, polishing, and publishing. Many formats will be explored, such as free writing, exposition, description, process analysis, narration, book/movie reviews. Within the course structure there is opportunity for creative expression. Assessment will be frequent and will include portfolio assessment, tests, term projects or publishing assignments.

**ENGLISH LANGUAGE ARTS 123****(1 credit)**

This course is designed for students whose immediate future plans include the applied technologies. The emphasis is placed on clear communication, through both the written and spoken word. Students will continue their study of fiction, nonfiction and all types of text. Guided assignments will provide ample opportunity for students to demonstrate their literacy skills.

**Pre-requisite:** English 113**JOURNALISM 120**

An elective course open to students in grade 11/12. Journalism 120 is intended for those who wish to explore Journalism as a career or field of study following high school. Students who have taken Writing 110 or who have done well in English or History courses might be interested in Journalism 120. Participants will be involved in the intensive practice of writing stories and articles in various journalistic styles. This course is for writers, not just critics of writing. Students must commit to practical outcomes and work towards publication of their work.

**MEDIA STUDIES 120**

Media Studies 120 is an elective course for grade 11/12 students. In a world dominated by the mass media, this course is designed to help students become media literate and understand the impact of mass media on society and culture. Students learn by experiment and exploration from this activity based course. Areas of focus will include popular culture, television/video/film, advertising, and media and the internet. Students enrolling in Media Studies must be mature enough to meet the high level of independence, reliability and responsibility required of them.

**EAL ESSENTIAL 110/EAL CONNECT 120**

Within a climate of trust and respect, teachers promote language learner agency through intentional instructional and ongoing assessment opportunities from a strength-based perspective. Learners engage in meaningful communicative tasks and are provided the scaffolds to set goals and assess their progress over time, based on “can do” statements. The goal of this class is to engage new English language learners with the skills to communicate effectively with the English speaking community.

**READING TUTOR 120**

This course is a unique opportunity for tutors to work on a one-to-one basis with elementary students who are seeking to raise their reading level and to improve their writing skills. Tutors learn basic reading theory and teaching techniques, and are assigned one student at a local feeder to work with for the term. This course is recommended for those planning careers in education, guidance or the social services.

**Note: Fine Arts/Life Role Development credit**

**Pre-requisite: English 111/112**