

# Bernice MacNaughton High School



## Course Selection Handbook

2020-2021

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\*\*\*Disclaimer: The availability of courses will depend on student enrollment and teacher availability. \*\*\*



# New Brunswick High School Graduation Requirements 2020 – 2021

**Minimum 18 credits which include the following 8 compulsory courses:**

- English grade 11 (2 credits)**
  - English grade 12 (1 credit)**
  - Mathematics (2 credits) from:**
    - Numbers, Functions Relations 10
    - Financial Workplace Math 11
    - Foundations of Mathematics 11
  - Modern History grade 11 (1 credit)**
  - Science (1 credit) from:**
    - Automotive Electrical Systems 120
    - Biology 112
    - Chemistry 111/112
    - Human Physiology 110
    - Introduction to Environmental Science 120
    - Physics 111/112
    - Physical Geography 110
    - Robotics Automated Technology 120
- A 3D rendering of a black graduation cap (mortarboard) with a tassel, and a rolled-up white diploma tied with a red ribbon, resting on a white surface.
- Fine Arts/Life Role Development (1 credit)**

<ul style="list-style-type: none"> <li>Auto Electric Systems 120</li> <li>Coop Education 120</li> <li>Culinary Technology 11/12</li> <li>Dramatic Arts 110/120</li> <li>Entrepreneurship 110</li> <li>Graphic Art and Design 110</li> <li>Growth, Goals and Grit 120</li> <li>Housing and Design 120</li> <li>Individual &amp; Family Dynamics 120</li> <li>Internal Combustion Engine 110</li> <li>Introduction to Applied Technology 110</li> <li>Music 112/122/120</li> </ul>	<ul style="list-style-type: none"> <li>Nutrition for Healthy Living 120</li> <li>Outdoor Pursuits/Education 110</li> <li>Power Train and Chassis 110</li> <li>Tune Up and Emissions 120</li> <li>Visual Arts 110</li> <li>Wellness Through Phys Ed 110</li> <li>Woodshop: Framing &amp; Sheathing 110</li> <li>Woodshop: Site Layout &amp; Foundation 110</li> <li>Woodshop: Mill &amp; Cabinet 120</li> <li>Woodshop: Residential Finish 110</li> <li>Metals Process 110</li> </ul>
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- Students must have an English 12 and a minimum of four other credits at the grade 12 level.**
  - Students must meet the requirements of the prescribed common curriculum of the 9/10 program as outlined in the Grades 9/10 Companion Document (completing Information Technology outcomes satisfies the Computer Literacy requirement).**
  - Success on the English Language Proficiency Assessment (ELPA) is required.**

Students must acquire a literacy credential by achieving acceptable or better on the ELPA in grade 9. Students who are unsuccessful have the opportunity to rewrite in their grade 11 and 12 year. Candidates are provided further support in grade 10.
  - Students must successfully complete either the Post Intensive French (PIF) or French Immersion Language Arts (FILA) course at the grade 10 level.**

Bernice MacNaughton High School



Title: Attendance Exemption Policy

revised: Fall 2018

**1.0 Objective**

To improve student attendance.

**2.0 Responsibility**

School staff and students

**3.0 Policy**

In recognition of the impact attendance has on learning, Bernice MacNaughton High School students will have the opportunity to apply to exempt one exam during final assessment week.

***Students must meet the following criteria:***

1. Students must have 7 or fewer absences (excused or unexcused) in all classes per semester. School sanctioned activities will not count toward their 7-day absences.
2. Students can only exempt a course that has a final exam and all essential work/assignments must be complete in that course.
3. Students who serve an out of school suspension are disqualified from the exemption policy for that semester.

**4.0 Procedure**

Students will have to apply for the exemption through their homerooms and classroom teacher.

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***"Student Name" is applying for a final exam attendance exemption in "course". If the exemption is taken, the final mark or potential range of mark(s) in this course would be "final mark". Please sign below if you support this final exam exemption request. This form must be returned to the subject teacher granting the exemption.***

**Parent Signature:** \_\_\_\_\_

**2020-2021 COURSE SELECTION SHEET FOR STUDENTS ENTERING GRADE 10**

Last Name \_\_\_\_\_

HR Teacher \_\_\_\_\_

First Name \_\_\_\_\_

HR Room # \_\_\_\_\_

Student NBSS Username: \_\_\_\_\_

I know my password:  Yes  No

**GENERAL INFORMATION ABOUT GRADE 10**

- ✓ Students will take five classes per semester.
- ✓ Students are enrolled in the English Prime Program OR the French Immersion Program. Students ***CANNOT*** change their program without completing the application process with the guidance department in consultation with District.
- ✓ The schedule for each program is listed below.
- ✓ English 10 is a FULL YEAR course. All of the other courses are one semester in length.
- ✓ Students are required to complete 18 credits for graduation. Grade 11 and 12 courses and Numbers Relations and Functions 10 are credited courses.
- ✓ **All students must have two math credits to graduate. (See below for math pathways)**
- ✓ Students have a choice of one grade 11 elective credit. (Options are listed below)

**Mandatory Grade 10 Courses**

English Program	French Immersion Program
English 10 (full year)	English 10 (full year)
Geometry, Measurement, and Finance 10	F.I. Geometry, Measurement, and Finance 10
Science 10	F.I. Science 10
Social Studies 10	F.I. Social Studies 10
Post Intensive French 10	French Immersion Language Arts 10
PDCP 10/Broad Based Technology 10	PDCP 10/Broad Based Technology 10
Visual Arts 10	Visual Arts 10
1 Grade 11 Credit Course	1 Grade 11 Credit Course

**To acquire the minimum of two credited math courses every student must complete Mathematics 9 and Geometry, Measurement and Finance 10. Students have a choice of the following math pathways to earn the minimum two math credits for graduation:**

	MINIMUM MATH GRADUATION REQUIREMENT		Optional Math Courses after Completing Minimum Requirement
Path A:	<ul style="list-style-type: none"> <li>•Financial Math 110 (1 credit)</li> <li>•Financial Math 120 (1 credit)</li> </ul>	⇒	No More Math Possibilities
Path B:	<ul style="list-style-type: none"> <li>•Numbers, Relations and Functions 10 /FI Numbers, Relations and Functions 10 (1 credit)</li> <li>•Financial Math 110 (1 credit)</li> </ul>	⇒	Foundations Math 110
Path C:	<ul style="list-style-type: none"> <li>•Numbers, Relations and Functions 10 (1 credit)</li> <li>•Foundations Math 110 /FI Foundations Math 110(1 credit)</li> </ul>	⇒	Pre-Calculus 110, Pre-Calculus 120A, Pre-Calculus 120B Calculus 120

**Select the Math Course(s) You Require with an "X"**

Numbers Relations and Functions 10	FI Numbers Relations and Functions 10	Financial Mathematics 110
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**2020-2021 COURSE SELECTION SHEET FOR STUDENTS ENTERING GRADE 10**

**CHOOSE ONE GRADE 11 ELECTIVE COURSE & TWO ALTERNATES. (P=Prerequisite Course) (L.O. = Local Option)**

<b>Grade 11 Elective Courses</b>	<b>Elective</b>	<b>1<sup>st</sup> Alternate</b>	<b>2<sup>nd</sup> Alternate</b>
Biology 112 (P = Science 10)			
F.I. Biology 112 (P = F.I. Science 10)			
Chemistry 111 (P = Science 10)			
Chemistry 112 (P = Science 10)			
Computer Science 110			
Culinary Technology 110			
Dramatic Arts 110			
Early Childhood Services 110			
Entrepreneurship 110			
Hospitality and Tourism 110			
Human Physiology 110 (P = Science 10)			
Introduction to Applied Technology 110			
Modern History 112 (P = Social Studies 10)			
Modern History 113 (P = Social Studies 10)			
F.I. Modern History 112 (P = F.I. Social Studies 10)			
Music – Guitar/Piano = <i>Choose Music 112</i>			
Music – Orchestra = <i>Choose Music 120</i>			
Music – Vocal = <i>Choose Music 122</i>			
Outdoor Pursuits 110 (P= HPE10)			
Spanish 110			
Wellness Through Phys Ed 110 (P = HPE 10)			
F.I. Wellness Through Phys Ed (P= HPE 10)			
Writing 110			

**It is extremely important** that you **choose your courses carefully** based on your future plans and interests. We will do our best to fill your requests, however, course conflicts may occur. As a result, it is **critical that alternate selections be made.**

Student Signature: \_\_\_\_\_

Parent/Guardian Signature: \_\_\_\_\_

HR Teacher Signature: \_\_\_\_\_

Telephone #: \_\_\_\_\_ Date: \_\_\_\_\_

## Grade 11 Course Request Sheet – 2020-2021

Mark an “X” beside your selections and then **build your schedule** on the back by indicating course name and level.

Graduation Requirement Groupings				
<b>English Language Arts 11 (Only one of)</b>		<b>Mathematics (At least one of)</b>	<b>Modern History (Only one of)</b>	
English 111 Full Year (2 credits)		Financial & Workplace Math 110	FI Modern History 112	
English 112 Full Year (2 credits)		FI Foundations of Math 110	Modern History 112	
English 113 Full Year (2 credits)		Foundations of Math 110	Modern History 113	
Science (At least one of)				
Auto Electric Systems 120 (P)		Chemistry 111	Physics 111	
Biology 112		Chemistry 112	Physics 112	
FI Biology 112		Human Physiology 110	Robotics & Automated Technology 120	
		Intro to Environmental Science 120		
Fine Art/Life Role Develop (at least one of)				
Autoshop 11 – Internal Combustion Engine 110		Individual & Family Dynamics 120	Visual Arts 110 (P)	
Autoshop 11 - Power Train and Chassis 110		FI Individual & Family Dynamics 120	Wellness Through Phys Ed 110	
Autoshop 12 - Auto Electric Systems 120 (P)		Music – Guitar/Piano = Choose Music 112	FI Wellness Through Phys Ed 110	
Autoshop 12 - Tune Up and Emissions 120 (P)		Music – Orchestra = Choose Music 120	Woodshop 11 - Framing & Sheathing 110	
Culinary Technology 110		Music – Vocal = Choose Music 122	Woodshop 11 - Site Layout and Foundation 110 (LO)	
Culinary Technology 120 (P)		Nutrition for Healthy Living 120	Woodshop 12 - Mill & Cabinet 120	
Entrepreneurship 110		Outdoor Pursuits/Education 110	Woodshop 12 - Residential Finish 120	
Graphic Art and Design 110 (P)		Dramatic Arts 110	Introduction to Applied Technology 110	
Growth, Goals, and Grit 120		Dramatic Arts 120	Metals Process 110	
Housing and Design 120				
Elective Courses				
Biology 121 (P)		Hospitality and Tourism 110	<b>Local Option Electives (No more than two of these courses can count towards the 17 credits required for graduation)</b>	
Biology 122 (P)		Indigenous Studies 120		
FI Biology 122 (P)		Intro to Accounting 120		
Business Org & Management 120		Journalism 120		
Canadian History 122 (P)		Law 120		
Chemistry 121 (P)		Media Studies 120		
Chemistry 122 (P)		Physics 121 (P)		
Child Studies 120		Physics 122 (P)		
Computer Aided Design 110		Political Science 120		
Computer Science 110		Post Intensive French 110		
Computer Science 120 (P)		Pre-Calculus 110 (P)	<b>Sustainability Block</b> A block of two periods for students to complete two credit courses that will examine real world issues through outcome/self-directed/project based learning. If you select this block, you will be asked to attend a mandatory information session.	
Digital Production 120		Sociology 120		
Early Childhood Services 110		Spanish 110		
Economics 120		Spanish 120 (P)		
FI Language Arts 110		World Issues 120 (P)		
FI Language Arts 120 (P)		FI World Issues 120		
Financial & Workplace Math 120 (P)		Writing 110		
Foundations of Math 120 (P)				
				Sustainability Block

### Math Pathways for Institutions that Require a Grade 12 Math Credit

Select the pathway that best suits your abilities, interests, and needs for your post-secondary program of study.

**1) Financial and Workplace Math Pathway**

Grade 11- Financial & Workplace Math 110

Grade 12 - Financial & Workplace Math 120

**2) Foundations of Math Pathway**

Grade 11 - Foundations of Math 110 *OR* FI Foundations of Math 110

Grade 12 - Foundations of Math 120

**3) Pre-Calculus Pathway**

Grade 11 - Foundations of Math 110 *OR* FI Foundations of Math 110 + Pre-Calculus 110

Grade 12- Pre-Calculus 120A (and Pre-Calculus 120B if required)

**4) Calculus 120 Pathway**

Grade 11 - Foundations of Math *OR* FI Foundations of Math 110 + Pre-Calculus 110

Grade 12- Pre-Calculus 120A + Pre-Calculus 120B + Calculus 120

*It is recommended that students who choose the Pre-Calculus or the Calculus pathways have achieved a minimum of 80% in Numbers, Relations and Functions 10*



**Graduation Requirements**

**General Points**

- Students must attain 17 credits (including the 7 compulsory credits).
- 5 credits must be from grade 12 courses. (English 12 + 4 more credits.)
- Successful completion of the English Language Proficiency Assessment.
- Successful completion of both Math 10 courses.
- Successful completion of Post Intensive French 10 or FILA 10.
- No more than two Local Option courses can count towards the 17 credits required for graduation.

**7 Compulsory Credits**

- English Language Arts 11 (**2 credits**)
- English Language Arts 12 (**1 credit**)
- Financial & Workplace Math 11 or Foundations in Math 11 (**1 credit**)
- Modern History 11 (**1 credit**)
- One Science Credit (**1 credit**)
- One Fine Art/Life Role Development Grouping credit (**1 credit**)

**It is extremely important** that you **request your courses carefully** based on your future plans and interests. We will do our best to fill your requests, however, course conflicts may occur. It is **critical that you request alternates**.

Student Signature \_\_\_\_\_

Date \_\_\_\_\_

Parent Signature \_\_\_\_\_

Telephone # \_\_\_\_\_

HR Teacher Signature \_\_\_\_\_

Date \_\_\_\_\_

## Grade 12 Course Request Sheet – 2020-2021

Mark an “X” beside your selections and then **build your schedule** on the back by indicating course name and level.

<b>Graduation Requirement Groupings (P) - Prerequisite</b>		
<b>English Language Arts 11 (Only one of)</b>	<b>Mathematics (At least one of)</b>	<b>Science (At least one of)</b>
English 111 Full Year (2 credits)	Financial & Workplace Math 110	Automotive Electrical Systems 120 (P)
English 112 Full Year (2 credits)	FI Foundations of Math 110	Biology 112
English 113 Full Year (2 credits)	Foundations of Math 110	FI Biology 112
<b>English Language Arts 12 (One of)</b>	<b>Modern History (Only one of)</b>	Chemistry 111
English 121 (P)	FI Modern History 112	Chemistry 112
English 122 (P)	Modern History 112	Human Physiology 110
English 123 (P)	Modern History 113	Intro to Environmental Science 120
		Physics 111
		Physics 112
		Robotics & Automated Technology 120
<b>Fine Art/Life Role Develop (At least one of)</b>		
Auto shop 11 – Internal Combustion Engines 110	Graphic Art and Design 110 (P)	Visual Arts 110 (P)
Auto shop 11 - Power Train and Chassis 110	Growth, Goals, and Grit 120	Theatre/Dramatic Arts 120
Auto shop 12 - Auto Electric Systems 120 (P)	Housing and Design 120	Wellness Through Phys Ed 110
Auto shop 12 - Tune Up and Emissions 120 (P)	Individual & Family Dynamics 120	FI Wellness Through Phys Ed 110
Coop Ed 120 (2 Credit) (Pre Approval Required)	FI Individual & Family Dynamics 120	Woodshop 11 - Framing & Sheathing 110
FI Coop Ed 120 (2 Credit) (Pre Approval Required)	Music – Guitar/Piano = Choose Music 112	Woodshop 11 - Site Layout and Foundation 110 (LO)
Culinary Technology 110	Music – Orchestra = Choose Music 120	Woodshop 12 - Mill & Cabinet 120
Culinary Technology 120 (P)	Music – Vocal = Choose Music 122	Woodshop 12 - Residential Finish 120
Dramatic Arts 110	Nutrition for Healthy Living 120	Introduction to Applied Technology 110
Entrepreneurship 110	Outdoor Pursuits/Education 110 (P)	Metals Process 110
	Phys Ed. Leadership 120	
<b>Elective Courses (P) = Prerequisite</b>		<b>Local Option Electives (No more than two of these courses can count towards the 17 credits required for graduation)</b>
AP Chemistry 120 (P-Chem 121)	Hospitality and Tourism 110	Advanced Outdoor Pursuits 120 (LO)
AP English 120 (P-Eng 121)	Indigenous Studies 120	Advanced Theatre Arts 120 (LO) (P)
AP Psych. 120	Intro to Accounting 120	Advanced Training Principles 120 (LO) (P)
Biology 121 (P)	Journalism 120	Mandarin 120 (LO)
Biology 122 (P)	Law 120	Pathology 120 (LO) (P)
FI Biology 122 (P)	Media Studies 120	Yoga 110 (LO)
Business Org & Management 120	Physics 121 (P)	<b>Sustainability Block</b>
Calculus 120 (P)	Physics 122 (P)	A block of two periods for students to complete two credit courses that will examine real world issues through outcome/self-directed/project-based learning. If you select this block, you will be asked to attend a mandatory information session.
Canadian History 122 (P)	Political Science 120	Sustainability Block
Chemistry 121 (P)	Post Intensive French 110 (P)	
Chemistry 122 (P)	Post Intensive French 120 (P)	
Child Studies 120	Pre-Calculus 110 (P)	
Computer Aided Design 110	Pre-Calculus 120 A (P)	
Computer Science 110	Pre-Calculus 120 B (P)	
Computer Science 120 (P)	Sociology 120	
	Spanish 110	
Digital Production 120	Spanish 120 (P)	
Early Childhood Services 110	Visual Arts 120 (P)	
Economics 120	World Issues 120 (P)	
FI Language Arts 110	FI World Issues 120 (P)	
FI Language Arts 120 (P)	Writing 110	
Financial & Workplace Math 120 (P)		
Foundations of Math 120 (P)		

### Graduation Requirements

#### General Points

- Students must attain 17 credits (including the 7 compulsory credits).
- 5 credits must be from grade 12 courses. (English 12 + 4 more credits.)
- Successful completion of the English Language Proficiency Assessment.
- Successful completion of both Math 10 courses.
- Successful completion of Post Intensive French 10 or FILA 10.
- No more than two local option courses can count towards the 17 credits required for graduation.

#### 7 Compulsory Credits

- English Language Arts 11 (**2 credits**)
- English Language Arts 12 (**1 credit**)
- Financial & Workplace Math 11 **OR** Foundations in Math 11 (**1 credit**)
- Modern History 11 (**1 credit**)
- One Science Credit (**1 credit**)
- One Fine Art/Life Role Development Grouping credit (**1 credit**)

**It is extremely important** that you **request your courses carefully** based on your future plans and interests. We will do our best to fill your requests, however, course conflicts in scheduling will occur. It is **critical that you request alternates**.

Student Signature \_\_\_\_\_

Date \_\_\_\_\_

Parent Signature \_\_\_\_\_

Telephone # \_\_\_\_\_

HR Teacher Signature \_\_\_\_\_

Date \_\_\_\_\_



**COURSE CHANGE REQUEST FORM 2020-2021**

Please return the completed form to your homeroom by 3:30 (date listed).

**Time table changes will ONLY be considered for the following reasons:**

- The student failed a compulsory course.
- The student requires a course for post-secondary education.
- The student already successfully passed a course listed on their schedule.
- The student does not have the pre-requisite course required to take the one listed on their schedule.

**Course(s) needed to be dropped:**

**Course(s) that need to be added:**

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Name of student: \_\_\_\_\_

Grade: \_\_\_\_\_

Homeroom teacher signature: \_\_\_\_\_

Date: \_\_\_\_\_

\*\*Students will only be called down ONLY if there are difficulties in meeting the change request.

\*\*Guidance will provide the student with a new schedule.

## ***Courses and their Pre-Requisites***

<b>Course</b>	<b>Pre-Requisite</b>
Advanced Placement Chemistry 120	Chemistry 121
Advanced Placement English 120	English 121
Advanced Placement Psychology 120	No Pre-Req but strong recommendation of 80%+ in English 111/2
Advanced Outdoor Pursuits 120	Outdoor Pursuits 110
Advanced Theatre Arts 120	Theatre Arts 120
Automotive Electrical Systems 120	Internal Combustion Engines 110
Biology 121/122	Biology 111/112 or FI Biology 111/2
Calculus 120	Pre-Calculus 120A and 120B
Canadian Literature 120	No Pre-Req but strong recommendation of 80%+ in English 111/2
Canadian History 122	Modern History 112 or FI Modern History 112
Chemistry 122	Chemistry 112
Computer Science 120	Computer Science 110
Co-op Education 120	Must apply and interview with Co-op teacher.
Culinary Technology 120	Culinary Technology 110
French Immersion Biology 122	French Immersion Biology 112
French Immersion Language Arts 120	French Immersion Language Arts 110
Financial and Workplace Math 110	Geometry, Measurement and Finance 10
Financial and Workplace Math 120	Financial and Workplace Math 110 or Foundations of Math 110
Foundations of Math 110	Geometry, Measurement and Finance 10 and Number, Relations and Functions 10
Foundations of Math 120	Foundations of Math 110
Graphic Art and Design 110	Visual Arts 9/10
Music 112	Music 10
Music 122	Music 112
Outdoor Pursuits 110	Health and Physical Education 9/10
Physics 121	Physics 111
Physics 122	Physics 111; Physics 112
Post-Intensive French 112	Post-Intensive French 10
Post-Intensive French 122	Post-Intensive French 112
Pre-Calculus 110	Foundations on Math 110 <b>(*or co-requisite)</b>
Pre-Calculus 120A	Pre-Calculus 110
Pre-Calculus 120B	Pre-Calculus 120A <b>(*or co-requisite)</b>
Spanish 120	Spanish 110
Tune-up and Emissions 120	Internal Combustion Engines 110
Visual Arts 110	Visual Arts 10
Visual Arts 120	Visual Arts 110
Wellness through Physical Education 110	Health and Physical Education 9/10
World Issues 120	Modern History 11 or FI Modern History 11

## BMHS Course Descriptions 2020-2021

### COMPULSORY COURSES:

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#### ENGLISH LANGUAGE ARTS

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##### **ENGLISH 9**

The grade 9 English program is based upon the three outcomes; speaking and listening, reading and viewing, writing and representing. Various texts may include short stories, both fiction and non-fiction, articles, poetry and novels. Students will be evaluated through conversations, observations and by products. Some products may include: book club discussion, panel discussion, debate, essay, narrative, personal and critical responses. \*All grade nine students will write the English Language Provincial Assessment (ELPA). It is a requirement for graduation from high school.

##### **ENGLISH 10**

The Grade 10 English program is outcome-directed. The High School English Curriculum Guide divides these outcomes into three strands. Students will read and view, speak and listen, write and represent independently, in pairs, in small groups and in student-teacher conferences. Some products may include the following: book club, panel discussion, speech, photo essay, spoken-word poetry, debate, primary source essay, creative writing and personal and critical responses. Various texts will be used to explore inquiry-based questions. Shorter texts (short story, poetry, essays and popular non-fiction, visual and multi-media etc.) extended texts (a book length narrative, modern play) will be studied. Students are asked to collect evidence of their learning and reflect on their success throughout the year.

##### **ENGLISH 111/112**

**2 credits**

This full-year English course has an academic focus, preparing students eventually for a post-secondary education and equipping them with valuable reading, writing and speaking skills and strategies. In the first semester, you will explore fiction and non-fiction, reading and viewing a variety of texts including short stories, essays, visual media, poetry and at least one novel. Texts will include Canadian content so that students can make meaningful and personal connections to their reading and viewing. You will explore writing this semester, with a multi-genre study that will provide both creative and academic writing opportunities. Informal and formal speaking opportunities will also come up during the semester in a variety of forms such as classroom or small group discussion, debate or panel discussion, reader's theater, book presentations and more.

##### **ENGLISH 113/ ENGLISH 123**

**2 credits**

**1 credit**

English 113–123 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 and written and other communication. Students will concentrate on improving strategies for learning from literary, technical and media texts; practical and personal writing is stressed.

**ENGLISH 121/122****1 credit**

This one-semester course, primarily intended for students whose academic goals include post-secondary education, is a merging of literacy, communication, critical and creative thinking skills necessary in both academia and life. Students will be expected to read, and critically and personally respond to a variety of grade-appropriate literary and informational texts. This course also places an emphasis on writing, note-taking and the use of effective language choices to enhance meaning. Students will additionally be expected to use technology for both research and communication. Finally, this course also contains an oral communication element, requiring students communicate clearly and effectively by speaking and listening with sensitivity and purpose.

**MATHEMATICS****MATHEMATICS 9**

This course is a full year in length. Units include rational numbers, square roots, powers and exponent laws, polynomials, linear equations and inequalities, linear relations, similarity and transformations, circle geometry, probability and statistics and surface area.

**GEOMETRY MEASUREMENT and FINANCE 10**

This course is one semester in length. Students will learn practical applications of geometry, measurement and finance in real-life situations. Units of study include: unit pricing and currency exchange, earning an income, financial services, angles and parallel lines, trigonometry of right triangles, systems of measurements and conversions and surface area and volume.

**NUMBERS RELATIONS AND FUNCTIONS 10****1 credit**

This course is one semester in length. Students will learn about powers, roots, functions and linear relations. Units explored include: factors and products, roots and powers, relations and functions, linear functions and systems of linear equations.

**FOUNDATIONS OF MATHEMATICS 110****1 credit**

This course provides a pathway designed for entry into academic programs not requiring pre-calculus. 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. This course is a pre-requisite or co-requisite for Pre-Calculus 110. Students must take either Foundations 11 or Financial and Workplace 11 to fulfill the grade 11 math requirement for graduation.

**FINANCIAL AND WORKPLACE MATHEMATICS 110****1 credit**

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, 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. Students must take either Foundations 11 or Financial and Workplace 11 to fulfill the grade 11 math requirement for graduation.

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**SOCIAL STUDIES**

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**SOCIAL STUDIES 9**

This course will explore: Canadian identity, Geography, Immigration History, Indigenous history and reconciliation, current events and challenges/opportunities.

**SOCIAL STUDIES 10**

This course will explore events throughout Ancient Medieval History, such as the Early Man, First civilizations: Mesopotamia, Egypt, Rome, Greece, Middle Ages and the Emergence of the Modern Era.

**MODERN HISTORY 112/113 or FI MODERN HISTORY (pre-requisite SS 10) 1 credit**

This course involves a study of events and concepts, such as social conflicts of Europe circa 1750, the French Revolution, the Industrial Revolution, World War I & Nationalism, World War II & and the Rise of Totalitarianism, the Cold War; the Post-Cold War and the 21<sup>st</sup> century; terms such as Absolutism, Conscription, Nationalism, and Nazism; and people such as Napoleon, Karl Marx, Kaiser Wilhelm, Adolph Hitler and Neville Chamberlain.

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**SCIENCE – Must choose ONE science at the grade 11 or 12 level to graduate**

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**SCIENCE 9**

This is a one semester course that focuses on living systems. Units include: science skills whereby students learn to create scientific questions, make predictions, conduct an investigation, make a conclusion and apply it to their learning; the organization of living things and ecology and ecosystems.

**SCIENCE 10**

This is a one semester course that focuses on matter and motion. Units include science skills, properties of structure and matter and motion. Students will become familiar with the periodic table, compounds and elements and their relationship to each other. They will also explore and explain physical changes and chemical reactions.

**AUTOMOTIVE ELECTRICAL SYSTEMS 120 (prerequisite: Int. Combustion Engines 110) 1 credit**

This course provides an introduction to 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 maintenance in the automotive, aircraft and marine industries.

**BIOLOGY or FI BIOLOGY 111/112 1 credit**

Biology 111/112 emphasizes the nature of life. Student's study the cell as the basic unit of life and the diversity of organisms that make up the planet's ecosystems. Students also study some of the systems that allow multicellular organisms to maintain equilibrium as they interact with the outside environment. Topics explored are; cells, human body systems and biodiversity and classification. Biology 111 offers the same content as Biology 112. Topics will be covered to a greater depth. Biology 111/112 are prerequisites for Biology 121/122.

**CHEMISTRY 111/112 1 credit**

Chemistry 112 emphasizes learning chemistry through the scientific method. 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. Chemistry 111 is recommended for students who may be pursuing science or engineering at the university level.



**HUMAN PHYSIOLOGY 110****1 credit**

The goal of this course is to build an understanding of the physiology of the human body. Emphasis is placed on the body in the context of overall health and in the interaction between mental, social and physical wellness. There is a focus on structure and function of each body system and how they relate to other systems. Healthy and diseased body systems will be explored. Students will develop a personal wellness plan which reflects their learning and understanding of overall health, human physiology and the effect of disease and lifestyle choices.

**INTRODUCTION TO ENVIRONMENTAL SCIENCE 120****1 credit**

The objective of this introductory course is for students to develop the knowledge base and skills for investigating and analyzing environmental issues and for communicating their knowledge to others. Students will investigate population growth and resource limitations, ecology of natural systems, historical and current approaches to the environment from various worldviews, and sustainability of natural environments. Students will complete and present a research project on a current issue.

**PHYSICAL GEOGRAPHY 110****1 credit**

Physical Geography 110 is the study of the physical features of the earth and their effects on humankind. It examines the interaction among all components of the environment and emphasizes the relationship between the land and humanity. It examines climatology and meteorology and their impact on people. It is designed to develop an understanding of the basic principles of the geographic method, which will enhance transferable skills.

**PHYSICS 111****1 credit**

Physics 111 utilizes the discovery approach. Students who choose this course must have a genuine interest in science and a better than average achievement in both science and mathematics. The student employs the scientific method in gathering experimental data. Laboratory work is the core of this course. Topics covered will be the same as those in Physics 112, but the depth of coverage will be greater.

**PHYSICS 112****1 credit**

This course is structured with the intention of preparing students for future studies in science. As such, it is designed for serious, hard-working students who have an interest in the subject. Learning will be emphasized through experimentation and observation. Course topics include: wave motion, kinematics, dynamics, work and energy.

**ROBOTICS AND AUTOMATED TECHNOLOGY 120****1 credit**

Through the use of experimentation labs, students will learn and apply various automation concepts such as logic programming and the integration of technologies including pneumatic, electrical, mechanical, and computer. Students will develop valuable technology skills in the areas of design, technical writing and communication, and systematic approaches to problem solving and troubleshooting. Students in this course will construct simulations and models of robot and automation processes using industrial types of equipment and computer simulation software. The knowledge and skills developed in this course would be an asset to any student who will at some point become involved in processing or manufacturing whether at the entrepreneurial, administration, engineer, technologist, or technician level.

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**FRENCH**


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**POST-INTENSIVE FRENCH 9 (PIF9)**

PIF is a one-semester course where students must try to speak French during class, participate, and be a careful listener. Topics include : review/révisions de bases, music/la musique, the small screen : T.V. / Le petit écran: télévision, social responsibility/ La responsabilité sociale.

**POST-INTENSIVE FRENCH 10 (PIF10)**

PIF 10 is a one-semester course where students must try their best to speak French during class, participate in conversation activities and be a careful listener. Topics explored include: introductions, the big screen and means of travel.

**FRENCH IMMERSION LANGUAGE ARTS 9**

This course has seven components: the oral comprehension, production and interaction, written comprehension and production, grammar and culture. Students will build on the skills already acquired in immersion. Students will work independently and in small groups. Themes may include: a personal story of courage, technology article and a book of your choice.

**FRENCH IMMERSION LANGUAGE ARTS 10**

This course has seven components: the oral comprehension, production and interaction, written comprehension and production, grammar and culture. Students will build on the skills already acquired in immersion. Students will work independently and in small groups. Texts to explore include: your experiences, your world and an opinion text.

**GRADE 9/10 PROGRAM COURSES****HEALTH AND PHYSICAL EDUCATION 10**

The overall objective of this course is to continue providing physical fitness experiences which enables the student, to make personal decisions about lifetime fitness and exercise. Opportunities will be provided for each student to acquire and refine motor skills in selected physical activities. The major emphasis is on long term physical recreation interests and the role of daily physical activity.

**MUSIC 9/10**

Music 9 and 10 focus on demonstrating skills in the area of performing, listening and writing. Students will explore nine units including: clefs, half beat rhythms, scales and key signatures, chords and intervals. Evidence of learning will be collected through performances, written assessments, conversations and observations.

**PERSONAL DEVELOPMENT CAREER PLANNING 10**

The goal is for students to gain the knowledge, skills and attitudes necessary to effectively negotiate the life/work process. Students will learn how to make informed decisions about their future personal and educational goals. Topics include: the promotion of positive self-image, value identification as well as strategies to effectively manage physical, mental/emotional, intellectual and social change.

**VISUAL ARTS 10**

This course alternates between two sections: Studio and Art History. Some topics that will be covered in the Studio section will be portrait drawing, methods of descriptive painting and an introduction to digital photography. In the Art History section, there will be a general overview of works from the Renaissance (1400-1550) to the Modernist period (1870-1970) including architecture, painting, and sculpture.

**FINE ART/LIFE ROLE DEVELOPMENT** (*Must have at least one to graduate*)**AUTOSHOP – AUTO ELECTRIC SYSTEMS 120** (prerequisite: Int. Comb. Engine 110) **1 credit**

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.

**AUTOSHOP – INTERNAL COMBUSTION ENGINE 110****1 credit**

This course is a study of the operation of the internal combustion engine including the construction, theory of operation and function of its systems. Students disassemble and assemble engines, checking, servicing and repairing components and systems. Emphasis is placed on the development of basic skills essential for persons entering the motor vehicle service trades and other allied occupations.

**AUTOSHOP – POWER TRAIN AND CHASSIS 110****1 credit**

This course is designed to develop skill and knowledge in the service and maintenance of the automobile chassis and power train. Emphasis is placed on the function, repair and replacement of components. Topics include spring and shock assemblies, brakes, steering, wheel bearings, tires, transmissions, differential and drive lines.

**AUTOSHOP – TUNE UP AND EMISSIONS 120 (prerequisite: Power Train 110)****1 credit**

This course is designed to provide students with a practical approach to diagnosing, servicing, and repairing of automobile fuel and emission systems and to performing engine tune-ups.

**CO-OP 120 (requires an application and interview for admission)****2 credits**

Co-operative Education is a program offered to Grade 12 students who meet specific minimum requirements for graduation. It serves to enhance practical curriculum instruction by exposing students to the responsibilities and critical employability skills necessary in a professional and real working environment. Students identify key academic, personal management and teamwork skills required of them as they prepare for the global workforce of the 21<sup>st</sup> century. The ultimate goal of co-operative education is to extend and build upon positive learning experiences.

**CULINARY TECHNOLOGY 110****1 credit**

The primary goal of Culinary 11 is to prepare students with the basic cooking skills and knowledge base necessary for Culinary 12. The goal of the course is to foster a love for cooking quality food, as well as, to develop an understanding for how it is culturally relevant. There will be a focus on the nutritional aspect of food science and how 'quality food' relates to a person's overall health and well-being.

**CULINARY TECHNOLOGY 120 (pre-requisite Culinary Tech 110)****1 credit**

The primary goal of Culinary 12 is to build on the content mastered in Culinary 110. In addition, students will be exposed to: food art, different cooking techniques, different cuts and grades of meat, chicken and pork, cultural diets and how to cook on a budget.

**DRAMATIC ARTS 110****1 credit**

This course is an introduction to the basic elements of drama. Students learn and practice various theatre conventions and terminology. Some topics of study will include: pantomime, voice and diction, improvisation, character development, monologues, blocking, collective creations, and scene development.

**DRAMATIC ARTS 120****1 credit**

This course deals with the major aspects of theatre performance, including acting and interpretation, stagecraft, play management, and theatre history. The course offers students an opportunity to deal with both practical and theoretical issues as they relate to drama and theatre arts.

**ENTREPRENEURSHIP 110****1 credit**

Entrepreneurship education provides learning with experiences that accelerate the need for students to accept greater responsibility to acquire knowledge, skills, and attitudes that will contribute to their future success. The entrepreneurial process encourages a strong connection between theory and action.

**GRAPHIC ART AND DESIGN 110 (pre-requisite: Visual Arts 10) 1 credit**

Graphic design is the creative planning and presentation of visual communication to attract attention or communicate effectively. The course promotes the skills and knowledge that are necessary to understand and develop images, signs, symbols, logos, etc. that communicate a message or value. The development of visual communication skills assisted by technology.

**GOALS, GROWTH AND GRIT 120 1 credit**

This course will provide students with skills in three main areas - positive and productive mindsets and behaviours, organizational patterns, as well as functional and critical literacy.

**INDIVIDUAL FAMILY DYNAMICS 120 / FI RELATIONS FAMILIALES 120 1 credit**

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.

**INTRODUCTION TO APPLIED TECHNOLOGY 110 1 credit**

Students will complete a series of projects from the areas of Woodworking, Motor Mechanics, Plumbing, Drywall Repair, Electrical, Manufacturing and Construction. All projects will be done in groups except for woodworking. There will be a series of tests, a mid-term and an exam. Evaluation will consist of 70% hands on and 30% tests and exams.

**MUSIC 112 (Orchestra, Guitar/Keyboard or Vocal Methods) (pre-requisite Music 10) 1 credit**

Music 11 focuses on demonstrating skills in the area of performing, listening and writing. Students will explore six units including: rhythms and chords, minor scales, chord progressions, harmonizing and composing and analyzing music. Evidence of learning will be collected through performances, written assessments, conversations and observations.

**METALS PROCESSING 110 1 credit**

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.

**NUTRITION FOR HEALTHY LIVING 120 1 credit**

This course is designed to teach you about food, what is not food, how your body reacts to what you consume and the industry behind the products that we eat. The intent is to educate and make you aware of healthy versus unhealthy choices and thereby equip you to lead a life where your mind, body and soul will flourish. Current issues relating to chronic diseases, lifestyles and food technologies will also be discussed.

**OUTDOOR PURSUITS/ EDUCATION 110 (prerequisite: Phys. Ed 9/10) 1 credit**

This course will develop personal outdoor recreation skills based on environmental ethics. Students must satisfy a requirement to complete a series of out-trips that may be daytrips, overnight excursions or extended trips. The course will take advantage of local outdoor access and could include camping, hiking, canoeing and other outdoor adventure activities.

**PHYSICAL EDUCATION LEADERSHIP 120 (requires pre-approval for admission) 1 credit**

This course develops leadership skills through involvement in physical activities. A minimum of 30 volunteer hours in the area of leadership is required. Themes include leadership, sports administration, teaching, coaching and officiating.

**VISUAL ARTS 110 (pre-requisite Visual Arts 10) 1 credit**

Visual Arts 110 builds on the experience and knowledge gained in Visual Arts 9/10. The studio work remains in the areas of drawing, painting, printmaking and 3-dimensional work and stresses personal expression and the development of individual imagery, and there are further requirements in art criticism and art history.

**(FI) WELLNESS THROUGH PHYSICAL EDUCATION 110 (pre-requisite Phys. Ed 10) 1 credit**

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%). Students must have completed Grade 9/10 Physical Education and Health.

**WOODSHOP – FRAMING AND SHEATHING 110 1 credit**

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.

**WOODSHOP – SITE LAYOUT AND FOUNDATION (Local Option) 1 credit**

This course is designed to introduce students to the methods, tools, equipment and skills of locating a building foundation. Through hands-on experience, building locations and elevations are established followed by the construction of various footing and wall-form systems and by mixing concrete to pour in forms.

**WOODSHOP – MILL AND CABINET 120 1 credit**

This is a finish woodworking course in which students will develop the necessary skills, knowledge and work habits required to construct cabinets and other miscellaneous mill work typically found in residential dwellings. Students, through a series of projects, will be involved with all aspects of mill work including planning, estimating, operation of woodworking equipment and machines and finish operations.

**WOODSHOP – RESIDENTIAL FINISH 120 1 credit**

This course examines the work required to finish a family dwelling once it is framed in. Topics covered include insulation, wall cladding, doors, windows, cornice trim and roof covering. Students will study these topics both in theory and through practical project work. This course should be of interest and value to those students interested in pursuing a career related to the residential construction industry.

**ELECTIVES****AP CHEMISTRY 120 (prerequisite: Chemistry 121) 1 credit**

The Advanced Placement Chemistry course is a first-year university-level course. Curricular outcomes include; atomic theory, quantitative chemistry, chemical bonding, aqueous solutions, solutions and chemical reactions, thermodynamics, equilibrium, gases, acids, bases and kinetics. Students who are successful in the final exam may have the option of applying their credit at various universities or may opt for advanced placement at university.

**AP ENGLISH 120 (prerequisite: English 121)****1 credit**

The Advanced Placement English Literature and Composition course is a university-level course with university-level expectations. Students entering the AP English Literature and Composition course are assumed to have completed the 121 English Language Arts curriculum during the first semester. The AP student will study works in a variety of genres (fiction, nonfiction, poetry and drama) by representative authors from Great Britain, America, Ireland and Canada. Units include: The Metaphysical Poets, The Victorians, North America Finds Its Voice, The Importance of Being Earnest, Heart of Darkness, Modernism, WWII and After, The Novel and A Streetcar Named Desire. Students who are successful in the final exam may have the option of applying their credit at various universities or may opt for advanced placement at university.

**AP PSYCHOLOGY 120 (pre-requisite 80% in English 11)****1 credit**

Advanced Placement Psychology is a first-year university course offered during semester two. This course explores psychology as a science. Topics include cognition, memory and learning, and various theories related to motivation, personality and emotion. Students will also become familiar with the characteristics of maladaptive behaviors as well as methods of amelioration. Students will gain an understanding of empirical research, interpretation of research findings and valid and ethical psychological experimentation along with the eight unifying themes of psychology. Students enrolled in AP Psychology need to be strong independent thinkers and learners. Students who are successful in the final exam may have the option of applying their credit at various universities or may opt for advanced placement at university.

**BIOLOGY 121/122 (prerequisite(s): Biology 111/112)****1 credit**

Biology 121/122 are challenging one-semester courses designed to give students a better understanding of cell structure, function and control at the molecular level. Topics include; macromolecules, the cell cycle, genomics, genetics, the physiology and anatomy of the nervous system, reproductive and endocrine systems and evolution as well as an overview of some new developments in biology. Biology 121 includes a greater emphasis on scientific research, advanced topics and more fieldwork.

**BUSINESS ORGANIZATION and MANAGEMENT 120****1 credit**

This is an introductory course in business organization, operation and management designed for those students intending to pursue further study in Business Administration or Economics at a post-secondary institution. The understanding of business operations as practiced in Canada is a major objective of the course including legal forms of ownership, marketing, finance, set up and operation of a small business, and labor/management relations.

**CALCULUS 120 (pre-requisites Pre-Calculus 12A & 12B)****1 credit**

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, related rates, and 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. This course is recommended for students interested in postsecondary 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.

**CANADIAN HISTORY 122 (pre-requisite Modern History 112 or Canadian History 120)****1 credit**

Canadian History 122 is a study of Post-Confederation with an emphasis on the 20th Century. The curriculum is organized by outcomes in four units: MacDonal Era: Expansion and Consolidation; 1867-1896, Canada's Century Begins: 1896- 1920, New Challenges and New Ideas: 1920-1945, Canada and the Global Community; 1945 - Present. There is an emphasis on a selection of themes including English French relations, First Nations, Continentalism, Regionalism, Canadian Identity and social themes. The roots of these themes should be woven into the Post-Confederation study.

**CANADIAN LITERATURE 120****1 credit**

This is an advanced English course. Students in this course encounter the characters, ideas, values and experiences that contribute to Canada's unique and global nature. The foundation of the course series of seven units, four which are compulsory: Canadian Identity; Historical and Literary Highlights; The Canadian Novel; Publication of a Class Literary Magazine.

**CHEMISTRY 121/122 (pre-requisite(s): Chemistry 111/112)****1 credit**

These courses consist of four main units 1) Organic Chemistry which studies carbon and organic compounds, applications and equations and the polymerization 2) Thermochemistry 3) Solutions, Kinetics and Equilibrium 4) Acids and Bases. Students will be evaluated through quizzes, assignments, tests, lab reports and an exam. Chemistry 121 students must complete/conduct a research project.

**CHILD STUDIES 120****1 credit**

This course explores how children develop physically, socially, emotionally, and intellectually. Issues are discussed regarding the "quality of life" and human development, "society's basic unit", the family plus parenting skills in our complex, consuming, and technological society. Child Studies 120 includes a variety of human centered experiences from conception through to the development of the school age child. Thus, ongoing observations and experiences with children is an essential part of this program.

**COMPUTER AIDED DESIGN 110****1 credit**

Primarily, this is an architectural drafting course with emphasis placed on the skills and techniques involved with Computer Aided Drafting. As well as spending considerable time on task at CAD stations, students will be involved with developing their planning, sketching, instrument drawing, and work organizational skills. Course content includes plot plans, floor plans, elevations and wall sections. Also included are an electrical and survey drawing unit. Students who seek employment in the drafting industry or who plan to study in post-secondary technology/engineering will benefit from this course.

**COMPUTER SCIENCE 110****1 credit**

This course is an introduction to the basic concepts for computer science. Programming languages to support learning concepts are Python and Visual Basic (VB 6). Three main units will be explored: computing environments and systems, programming concepts and skills and software development.

**COMPUTER SCIENCE 120 (pre-requisite: Computer Science 110)****1 credit**

In this course, methods of data handling are integrated with systems analysis and design. Advanced concepts and procedures are presented to provide a more comprehensive understanding of microcomputer usage and applications. The course will include a study of high-level languages, the use of electronic spreadsheets, data base applications and other appropriate computer software.

**DIGITAL PRODUCTION 120****1 credit**

This is a performance-based course that focuses on the applied use of digital media and explores the appropriate legal and ethical dealings. It is intended to develop digital literacy through a skills-based approach, challenging in terms of its requirements but flexible enough to accommodate students with a wide range of interests and abilities.

**EARLY CHILDHOOD SERVICES 110****1 credit**

This course helps students understand the role of the caregiver as well as the parents in a child's development. The theory in Early Childhood Services 110 best applies to the age group infancy to two years old.

**ECONOMICS 120****1 credit**

Economics 120 provides students with a basic understanding of our economic system and how it works. It will explore the various factors that affect our economic decision making whether they be individual or group decisions. It is a course that requires a good deal of study and effort in order to be successful.

**FI BIOLOGY 122 (pre-requisite: Biology 112)****1 credit**

This course is designed to give the students a better understanding of cell structure, function and control at the molecular level. Topics include; macromolecules, the cell cycle, genomics, genetics, the physiology and anatomy of the nervous, reproductive and endocrine systems and evolution as well as an overview of some new developments in biology.

**FI LANGUAGE ARTS 110****1 credit**

This course has seven components: the oral comprehension, production and interaction, written comprehension and production, grammar and culture. Students will build on the skills already acquired in immersion. Students will work independently and in small groups.

**FI LANGUAGE ARTS 120 (prerequisite: FILA 110)****1 credit**

This course is based largely on preparation for the **mandatory oral interview**. Students will practice the French language through scenarios, oral activities and answers to a multitude of texts and media. The goal is for students to improve their fluency in French and that in the future, will continue to explore the French language and culture.

**FI WORLD ISSUES 120****1 credit**

This course examines various issues that are global in nature and that require a global solution. The concept of the global village is studied, as are the players in the global community and future of the global community.

**FINANCIAL AND WORKPLACE MATH 120 (pre-requisite FIN 110 or Found.110)****1 credit**

Students explore the limitations of measuring instruments, and solve problems using sine and cosine laws and the properties of triangles, quadrilateral, and regular polygons as they relate to construction, industrial, commercial and artistic applications. Transformations of 2-D and 3-D shapes are identified, drawn with and without technology, and used to create, analyze and describe designs and to solve contextual problems. The viability of small business options are explored including expenses, feasibility, and factors that could impact on profitability. Linear relations are studied, including patterns and trends, graphing, creating tables of values, writing equations, interpolating and extrapolating, and solving problems. Students gain an understanding of mean, weighted and trimmed mean, median and mode, and explore the impact of outliers. They also compare percent and percentile and explore probability.

**FOUNDATIONS OF MATHEMATICS 120 (pre-requisite Foundations 110)****1 credit**

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.

**HOSPITALITY AND TOURISM 110****1 credit**

This course will provide students with lifelong learning skills that are transferable to future learning and/or the hospitality and tourism industry. The student will acquire career information, skill development and the talents for employment. This course relies on resource based learning, practical experiences, and access to resource people and information that will help the individual in his/her career choice. Topics include the four main sectors of the tourism industry, influences on the tourism industry, personal and interpersonal skills regarding career opportunities available, travel industry and marketing strategies.



**HOUSING AND DESIGN 120****1 credit**

This course is designed to show the relationship between different types of housing and the housing needs of individuals, families and communities. The influences of cultural, psychological and aesthetic aspects of housing are examined. The value of creativity and individuality in a living environment is an important element of the course. Course topics span factors including housing in various cultures, historical and modern trends in housing and lifestyles needs, financial and legal costs and requirements, basic floor plans and arrangements, plus the principles and elements of design. This course would be of interest to students interested in the field of architectural design, drafting or Home Economics.

**INDIGENOUS STUDIES 120****1 credit**

Indigenous Studies 120 give participants an opportunity to both expand understandings of First Nations peoples' experiences within the Atlantic Maritime region and to highlight First Nations' rich history, culture, language, and knowledge. As a result, students will have an opportunity to demonstrate First Nation perspectives and understandings of Canadian and Maritime heritage and culture.

**INTRO. TO ACCOUNTING 120****1 credit**

This course 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.

**JOURNALISM 120****1 credit**

This course 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.

**LAW 120****1 credit**

This course is designed to present students with a common introduction to the foundations of Canadian law. The aim is to provide students with the essential skills required not only for the study of law, but also of the humanities in general. Topics explored include: The History of Law; Human Rights and the Charter; Criminal Law and Civil Law.

**MEDIA STUDIES 120****1 credit**

This course offers an introduction to the evolution and impact of mass media on the individual and society. The television/video unit is compulsory, accompanied by a choice of three additional units on advertising, film, print and electronic journalism, photography, drama, radio/sound communication, as local circumstances permit. The primary purpose of the course is to have students learn through experiment and exploration; the course is practical and activity based. Students enrolled in Media Studies 120 must be mature enough to meet the high level of independence, reliability and responsibility required of them.

**MUSIC 122/120 (Orchestra, Guitar/Keyboard or Vocal Methods) (pre-requisite Music 11) 1 credit**

Music 12 focuses on demonstrating skills in the area of performing, listening and writing. Students will explore five units including: alto and tenor clefs, harmonizing and composing, analyzing, arranging and transposition. Evidence of learning will be collected through performances, written assessments, conversations and observations.

**PHYSICS 121 (pre-requisite: Physics 111/112)****1 credit**

This course utilizes the discovery approach. Students who choose this course must have a genuine interest in science and a better than average achievement in both science and mathematics. The student employs the scientific method in gathering experimental data. Laboratory work is the core of this course. Topics covered will be the same as Physics 122 but the depth of coverage will be greater

**PHYSICS 122 (pre-requisite: Physics 112)****1 credit**

This course consists of three main units 1) Dynamics Extension which studies factors that cause objects to move as they do 2) Projectiles, Circular Motion and Universal Gravitation explores concepts of force, momentum and energy 3) Fields remains one of the major concepts of physics. It includes: magnetic electric and gravitational fields and electric circuits.

**POLITICAL SCIENCE 120****1 credit**

This course is an introductory political science course designed to develop an understanding of various political ideologies and systems, as well as the ability to assess the merits of each and to make comparisons, particularly with respect to Canadian systems.

**POST INTENSIVE FRENCH 110, 120 (pre-requisite: Post Intensive French 10)****1 credit**

The Post Intensive French Language program offers a multi-dimensional approach to the teaching and learning of a second language. These courses cover the language skills necessary for effective communication in French in daily situations. They are designed for students who wish to broaden their communicative ability in the second language. Post Intensive French 112 and 122 are not appropriate for students with a background in French Immersion. **Post Intensive French 112 is a pre-requisite for PIF 122.**

**PRE-CALCULUS 110****1 credit**

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, 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 and solve problems 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-CALCULUS 120A (pre-requisite Pre-Calculus 110)****1 credit**

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 120B (pre-requisite or co-requisite Pre-Calculus 120A)****1 credit**

Students will 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 which involve infinity are also investigated.

**SOCIOLOGY 120****1 credit**

This course gives students a concrete examination of Canadian society from a sociological perspective. Students will be better able to understand the society in which they live with regards to human relationships, how individuals act, react and interact within social contexts, as well as compare other societies.

**SPANISH 110****1 credit**

Students learn the basic elements of the language and Hispanic culture through an interactive tutorial. They have the opportunity to practice and expand on this knowledge through live, online group sessions. The themes of this course have been selected with the interests of the young adult learner in mind. A term project is completed with the help of a virtual partner.

**SPANISH 120****1 credit**

Spanish 120 will require students to improve their knowledge and ability level in the language. This will be accomplished by engaging students in the exploration of the Hispanic culture through the areas of travel, fashion and music. Over the course of the term, students will be required to engage in various online group sessions and be expected to complete projects with a virtual partner.

**VISUAL ARTS 120 (pre-requisite Visual Arts 110)****1 credit**

This is an advanced course of study that requires students to be able to work independently to develop a sophisticated portfolio of studio work. In addition to required studio assignments students will be expected to develop themes through the semester that will culminate in a final term project. Students are expected to be able to explain and defend their work in written form as well as orally. Students will be exposed to a variety of contemporary approaches to the creation of visual art. In art criticism students will be asked to create written responses to the works of contemporary artists.

**WORLD ISSUES 120****1 credit**

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 are the players in the global community and future of the global community.

**WRITING 110****1 credit**

This course will follow a workshop format with an emphasis on the writing process, which will eventually lead to a number of written products to share with the teacher, class, or the public. Students will be expected to try to write a number of different genres of writing including: short fiction, spoken word, script writing, persuasive writing, etc. Students will be evaluated through writing conferences, a portfolio, evidence of daily work and self-evaluation/interview.

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## SUSTAINABILITY BLOCK

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### SUSTAINABILITY BLOCK

**1 credit**

A block of two periods for students to complete two credit courses that will examine real-world issues through outcome/self-directed/project-based learning. If you select this block, you will be asked to attend a mandatory information session.

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## LOCAL OPTIONS

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### ADVANCED OUTDOOR PURSUITS 120 (pre-requisite Outdoor Pursuits 110)

**1 credit**

This course will develop personal outdoor recreation skills based on environmental ethics, sound judgement and decision making. Students must satisfy a requirement to complete a series of field trips that may include day, overnight or extended trips. The course will take advantage of local outdoor access (Centennial Park) and will include hiking, backpacking, camping, nordic skiing, canoeing, navigation, climbing and wilderness first aid. Students may be required to plan, lead and evaluate field trip experiences.

### ADVANCED THEATRE ARTS 120 (pre-requisite Theatre Arts 120)

**1 credit**

This class is for serious and experienced drama students to have a further opportunity to develop artistically in a class setting. Students will be expected to demonstrate the creative growth they have accumulated throughout their years of practicing high school theatre. Students will demonstrate a strong command of physical theatre, characterization, blocking, and voice work. During the creative process students will be expected to take on the multiple roles of writer, director and actor.

### ADVANCED TRAINING PRINCIPLES 120

**1 credit**

ATP (Advanced Training Principles) focuses on the study of human movement and of systems, factors, and principles involved in human movement. Students will learn about the effects of physical activity on health and performance, the evolution of physical activity and sports, and the factors that influence an individual's participation in physical activity.

### MANDARIN 120

**1 credit**

This course helps students develop the four language skills (speaking, listening, reading, and writing) in a cultural context with a focus on communicative performance and comparison of cultures. Students will learn to understand common everyday phrases, sentences and questions about yourself, personal experiences, and surroundings with fundamentals of conversational Chinese; use lists, phrases and short sentences to provide basic information on familiar topics, such as self-introduction, family, and daily activities; interact with language substitutions and extensions on given topics; and prepare for further Chinese language studies in the future.

### PATHOLOGY 120 (pre-requisite: Biology 112)

**1 credit**

This course is intended for students who are thinking about pursuing careers in the medical field or have a higher interest in Biology. Students will study the immune system in depth indicating how various diseases affect the human body, and how diseases are diagnosed and treated. There is also a lab component.

### WOODSHOP – SITE LAYOUT AND FOUNDATION 110

**1 credit**

This course is designed to introduce students to the methods, tools, equipment and skills of locating a building foundation. Through hands-on experience, building locations and elevations are established followed by the construction of various footing and wall-form systems and by mixing concrete to pour in forms.

**YOGA 110**

**1 credit**

Yoga 110 introduces students to the ancient tradition of yoga in its various forms and styles. With its vast capacity to bring vibrant health to body, mind and emotions, the main outcome for Yoga 110 is to develop healthy relationships with self, others and the earth.