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Leo Hayes High School

Introduction

This guide is for students entering grades 11 and/or 12 and is designed to help you choose courses that will meet the New Brunswick High School Graduation requirements.

Homeroom teachers and guidance counselors will provide you with direction and information, and counsellors will assist you with the course planning and selection process. Students should take every opportunity to discuss course options and post-secondary learning and career plans with their parents, guardians, teachers and guidance counselors. We are here to help you, but ***it is ultimately up to the student and his/her/their parents or guardians to ensure courses are selected to meet post-secondary entrance requirements.***

General Information

Personalized Learning Educational Plan

Students who require an Adjusted Curriculum or Individual Personal Learning Plan (PLP) are eligible to have course content adjusted to meet their learning needs. The student's course selections should be done in consultation with the Resource Teacher, Guidance Counselors and Parents.

Course Levels

All courses have a name and number. The first two digits indicate grade and the third digit indicates the level.

Open or "0" courses are offered to all at one level only; ex: Entrepreneurship 110

Level 2 courses are academic/university/college preparatory. ex: Music 112, Biology 122

Level 3 courses are general/college preparatory. ex: Modern History 113, English 123

Level 1 courses are enriched university preparatory. ex: English 111, Physics 121

Many electives are open to both grades 11 and 12; read descriptions and pre-requisites carefully.

Prerequisites

Many courses have required or recommended prerequisites or co-requisites. Please read the course descriptions carefully prior to course selection. Students without the required prerequisites will not be allowed to enroll in the course. **See page 28 for a listing of courses requiring prerequisites.**

Prerequisite: A course that must have been successfully completed prior to enrolling in the course.

Co-requisite: A course that, if not previously completed, must be taken during the same semester as the course.

Course Fees and Applications:

Please note that some courses require additional supplies and/or payment of lab, studio or other fees. Some courses require applications **-due March 18th to the guidance department- See page 28.**

Student Timetables:

Timetables are computer-generated to best match the maximum number of student requests and therefore courses fall by chance into either semester.

When all timetables are deemed ready and the school schedule and staffing are settled, timetables will be distributed for the upcoming school year to all students at the same time typically the first day of school.

We are unable to entertain requests for early access to your timetable.

Leo Hayes High School Special Programs

In addition to the range of compulsory and elective courses available to you, the following programs offer students the opportunity to enroll in courses that support their special interests and/or career goals.

Career and Transition Planning

A variety of elective courses are offered to support the career interests of students. In addition, specific interests may also be explored through on-the-job work placements in both Career Exploration 110 and Cooperative Education 120 courses. These courses provide opportunities to gain work experience and develop workplace skills as part of your high school program. Workplace opportunities exist in many different areas. **Additionally, placements in trades related areas may be used as hours credited towards apprenticeship.**

**Two new career specific co-op programs are being offered now: Long-term Care Co-op and Introduction to Early Childhood 120 Co-op. See your guidance counselor for more information.

Trades Course Option at FHS

This program provides the opportunity to enroll in two trades related courses per semester held at FHS in the afternoon while attending LHHS in the morning. Students must enroll in both courses. Transportation by bus from LHHS to FHS and return is expected and provided for students in this program. **NOTE: Enrolment is limited and competitive.** Priority will be given to students that can demonstrate a commitment to regular attendance and appropriate, respectful behaviours.

Essential Skills Achievement Pathway (ESAP) Program

The Essential Skills Achievement Pathway (ESAP) Program is an opportunity for students to earn a high school diploma that prepares them for a post-secondary education, apprenticeship, or the world of work. The program consists of personalized learning opportunities that allow students to explore their skills, talents, abilities and interests while intentionally attaining the 9 federally identified Essential Skills (i.e., reading text, document use, writing, numeracy, oral communication, thinking skills, working with others, computer use and continuous learning.) Proficiency in these skills is demonstrated and evaluated through problem and project-based learning in the classroom, community and workplace. The ESAP program prepares students for the current skills-based economy as well as future work, learning and life. Students must select this pathway in grade 10.

Fine Arts Certificate Program

This program, designed to reward both quantity and quality of artistic work, is an enrichment opportunity for students that are motivated, self-disciplined, and interested in the Arts. The F.A.C. will take approximately 2.5 years to complete. While the requirements are quite reasonable, it will take careful planning by the student to ensure success. The F.A.C. is designed to reward depth of work in one area of concentration. It also demands that applicants experience at least one additional discipline of artistic expression. Students who receive the LHHS F.A.C. will have been involved in both curricular and extra-curricular arts activities. Across the 3 years of grades 10, 11 and 12 students must complete three curricular courses in their area of study, 6 extra-curricular activities in the arts (three of which MUST be in their area of study), complete a self-evaluative paper and a portfolio to be reviewed by local artists in their corresponding discipline. If students are interested in earning the LHHS Fine Arts Certificate (FAC) they should consult a Fine Arts teacher for more information.

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French Immersion Program

CERTIFICATE OF IMMERSION

This certificate is issued by Anglophone School District West and is offered to all students who have completed the requirements of the **French Immersion Program** through grade 12; 50% of courses in each of grades 9 and 10; 25% of grades 11 & 12 over the two years (five courses gr 11/12). A complete listing of LHHS' F.I. courses can be found on the Course Theme Index, pages 7- 8.

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 following an oral assessment by professional evaluators. The certificate is presented upon completion at the end of the semester. There is no cost for this assessment. Students must be enrolled in a grade 12 French course in grade 12 to be eligible for the proficiency test.



Not sure what career path you would like to follow? myBlueprint is an academic planner that offers assessments, search tools, and videos to help you explore possible career paths. Best of all, it is Canadian information. Most students would have used this program in grade 10 PDCP class, but if you don't have an account, follow these steps to set one up. You might want to book an appointment with your guidance counsellor about exploring your results and the questions that follow.

How to Create a New Account:

1. Visit [myBlueprint.ca/anglophone west](https://myBlueprint.ca/anglophone-west)
2. Click 'Sign Up'
3. Select Your School: Leo Hayes High School
4. Select 'Create Account'
5. Select 'Student'
6. What Grade Are You In: Select
7. Enter Education Number (the long number next to your name on your schedule)
8. Enter Birthdate
9. Select an email you use and remember. Select Password you will remember.
10. For assessments, click the 'Who Am I' tab on left side of the screen. There are several.

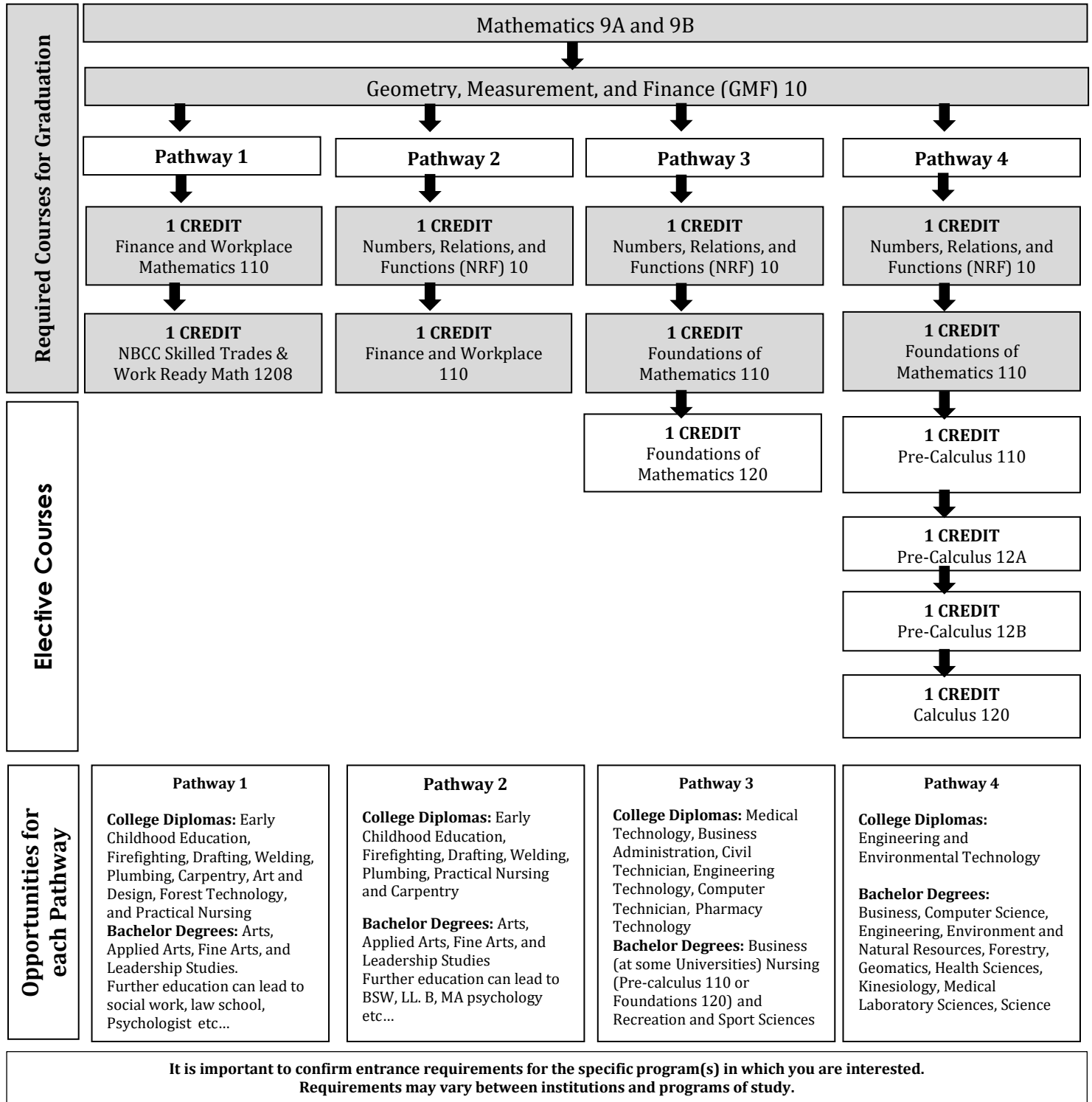
Important

All courses are subject to limited enrollment and may be cancelled if numbers do not warrant a place in the timetable. Student course selections in spring of 2022 and staffing allocations ultimately determine the availability of sections/courses. Administration and Guidance reserves the right to review course sections/numbers each semester and adjust accordingly. Once a timetable is built, students are not permitted to make changes to their course selection with the exception of adjusting for course failures or changes in post-secondary paths and requirements.

Leo Hayes High School Graduation Pathways for Mathematics

Each pathway is designed to provide students with the mathematical competencies and critical thinking skills they will need after high school. Students should select courses in the pathway that best fits their interests and plans for after high school. Each pathway provides students with a different focus on math concepts and skills. Students may choose to take additional mathematics courses beyond the graduation requirements to better prepare them for what they want to do following high school.

Important Notes: Graduation requirements have recently changed for math. Students entering grade 12 in September are only required to complete 1 credit in math at the grade 11 level (Fin and Workplace 110 OR Foundations 110). However, students entering grade 11 in September need to complete 2 math credits. Please refer to the diagram below for the various options.



New Brunswick High School Graduation Requirements

In order to graduate, you must meet all of the following requirements:

- Complete the entire Grade 9-10 program
- Pass 18 out of 21 credits in Grades 10-12, seven of which are compulsory courses listed below
- **Five** of these credits must be from Grade 12 courses including English
- Pass the English Language Proficiency Assessment
- Have no more than **two** local option courses out of the 18 required courses
- Students are expected to attempt 20 credits

Compulsory (must select and pass) courses

- English Language Arts Literary Text 11 **(1 credit)**
- English Language Arts Informational Text 11 **(1 credit)**
- Math – must pass **two** of (Numbers Relations and Functions 10 and **either** Fin and Workplace 110 **OR** Foundations 110) **OR** (Financial & Workplace Mathematics 110 **AND** Math 1208 NBCC) **(2 credits)**
- Science **(1 credit)** (see list of options below)
- History 11 **(1 credit)**
- Fine Arts & Life Role Development **(1 credit)** (see list of options below)
- English 12 **(1 credit)**

***Notes- French Immersion students must successfully complete five of their 21 credits** (over the two years) in French to obtain their FI certificate in grade 12. To be eligible for the oral proficiency interview in grade 12, a grade 12 French course must be taken in grade 12.

Science Options

Physics, Biology, Chemistry, Human Physiology 110, Introduction to Environmental Science 120, Introduction to Electronics 110, Micro Electronics 120, Physical Geography 110, Robotics and Automated Technology 120, *Automotive Electrical Systems 120.

Fine Arts/Life Role Development

*Automotive Electrical Systems 120, Career Exploration 110, Cooperative Education 120, Creative Arts 110, Culinary Technology 110/120, Dramatic arts 110/120, Early Childhood Coop 120, Electrical Wiring 110, Entrepreneurship 110, Framing and Sheathing 110, Goals, Growth and Grit 120, Graphic art and Design 110, Housing and Interior Design 120, Individual Family Dynamics 120, Internal Combustion Engines 110, Introduction to Applied Technology 110, Long-term Care Coop 120, Metals Fabrication 110, Metals Processing 120, Mill and Cabinet Work 120, Music 112, Music 122, Nutrition for Healthy Living 120, Outdoor Education (Pursuits) 110, Physical Education Leadership 120, Power Chain and Chassis 110, Residential Finish 120, Tune-up and Emissions 120, Visual Arts 110/120 and Wellness through Physical Education 110.

***Automotive Electrical Systems 120** – if used as a science credit, students must select a different Fine Arts/Life Role credit.

*Duke of Edinburgh's Award Young Canadians Challenge Silver or Gold level may be used as Challenge for Credit for Outdoor Pursuits 110. **See Guidance Counsellor.**
*Army, Air, Sea Cadet courses may be combined and used as Challenge for Credit for Outdoor Pursuits 110. **See Guidance Counsellor.**

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GRADE 11-12 COURSES 2022 - 23

BUSINESS AND RELATED COURSES		LANGUAGES
Economics 120		Intro to Wolastoqey 110
Entrepreneurship 110		Post Intensive French 110
Hospitality & Tourism 110		Post Intensive French 120
Marketing 120		Spanish 120
ENGLISH AND RELATED COURSES		LIFE STUDIES
English 111 (Lit Text & Info Text)		Child Studies 120
English 112 (Lit Text & Info Text)		Individual and Family Dynamics 120
English 113 (Lit Text & Info Text)		FI/FSL Individual Family Dynamics 120
English 121		Psychology 110
English 122		
English 123		LOCAL OPTIONS
Growth, Goals and Grit: Skills for Success 120		Aviation Maintenance 110
Intro to Debate 110		Indigenous Wabnaki Art 110
Literacy Through Graphic Novels 110		Introduction to Debate 110
Media Studies 120		Introduction to Wolastoqey 110
Reading Tutor 120		Literacy Through Graphic Novels 110
Writing 110		Marketing 120
		Psychology 110
FINE ARTS		
Creative Arts 110		MATH
Dramatic Arts 110		Financial & Workplace Mathematics 110
Dramatic Arts 120		NBCC Skilled Trades & Work Ready Math 120
Graphic Arts & Design 110		Foundations of Mathematics 110
Indigenous Wabanaki Art 110		FI/FSL Foundations of Mathematics 110
Visual Arts 110		Foundations of Mathematics 120
Visual Arts 120		Pre-Calculus 110 OR FI/FSL Precalculus 110
Music 112 (Choral)		Calculus 120
Music 112 (Guitar)		
Music 112 (Instrumental)		PHYSICAL EDUCATION & HEALTH
Music 112 (Keyboarding)		Nutrition for Healthy Living 120
Music 122		Outdoor Education 110
		Physical Education Leadership 120
FRENCH IMMERSION COURSES		Wellness Through Physical Education 110
FI Language Arts 110		
FI Language Arts 120		
FI Modern History 112		
FI Techniques de Communication 120		
FI/FSL Biology 112		
FI/FSL Canadian History 122		
FI/FSL Foundations of Mathematics 110		
FI/FSL Individual Family Dynamics 120		
FI/FSL Pre-Calculus 110		

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SCIENCE		TRADES AND TECHNOLOGY
Biology 111		Computer Science 110 (Intro to Gaming)
Biology 112 OR FI/FSL Biology 112		Computer Science 120
Biology 121		Culinary Technology 110
Biology 122		Culinary Technology 120
Chemistry 111		Cybersecurity 120
Chemistry 112		Digital Production 120
Chemistry 121		Electrical Wiring 110 (Residential)
Chemistry 122		Housing and Interior Design 120
Human Physiology 110		Intro to Applied Technology 110
Intro to Environmental Sci. 120		Intro to Electronics 110
Physical Geography 110		Information Technology 120
Physics 111		Microelectronics 120
Physics 112		Mill & Cabinet Making 120
Physics 121		Robotics and Automated Technology 120
Physics 122		
Science 122 (Advanced)		
		TRADES COURSE OPTIONS AT FHS
SOCIAL STUDIES		
Canadian Geography 120		SEMESTER 1
Canadian History 122		Metals Processing 110 and
FI/FSL Canadian History 122		Welding/Metals Fabrications 110
Law 120		
Modern History 111		SEMESTER 2
Modern History 112		Automotive Electrical Services 120 and
FI Modern History 112		Power Train and Chassis 110
Modern History 113		
Native Studies 120		WORK EXPER. & PERSONAL INTEREST
Political Science 120		Career Exploration 110
Sociology 120		Cooperative Education 120
World Issues 120		Intro to Early Childhood Coop 120
		Long-Term Care Coop 120
		Personal Interest 1 and 2

ALPHABETICAL INDEX GRADE 11-12 COURSES 2021-22

Course	Page	Course	Page
Automotive Electrical Services 120	11	FI/FSL Foundations of Mathematics 110	16
Aviation Maintenance 110	26	FI/FSL Individual Family Dynamics 120 (Relations Familiales)	17
Biology 111	11	FI/FSL Pre-Calculus 110	17
Biology 112	11	FILA 110 (Language Arts 110)	17
Biology 121	11	Financial and Workplace Mathematics 110	17
Biology 122	11	Foundations of Mathematics 110	17
Calculus 120	11	Foundations of Mathematics 120	17
Canadian Geography 120	11	Framing & Sheathing 110 (N/A 2022-23)	17
Canadian History 122 or FI Can Hist 122	12	Graphic Arts & Design 110	17
Career Exploration 110 (2 credits PM)	12	Growth, Goals and Grit: Skills for Success 120	18
Chemistry 111	12	Hospitality and Tourism 110	18
Chemistry 112	12	Housing and Design 120	18
Chemistry 121	12	Human Physiology 110	18
Chemistry 122	12	Indigenous Studies 120	18
Child Studies 120	13	Indigenous Wabanaki Art 110	27
Computer Science 110 (Intro to Gaming)	13	Individual Family Dynamics 120	18
Computer Science 120	13	Information Technology 120	18
Cooperative Education 120 (2 credit PM OR 3 credit AM)	13	Internal Combustion Engines 110 (N/A 2022-23)	19
Creative Arts 110	13	Intro to Applied Technology 110	19
Culinary Technology 110	13	Intro to Debate 110	27
Culinary Technology 120	14	Intro to Early Childhood Coop 120	19
Cybersecurity 120	14	Intro to Electronics 110	19
Digital Production 120	14	Intro to Environmental Science 120	19
Dramatic Arts 110	14	Intro Wolastoqey 110	27
Dramatic Arts 120	14	Law 120	19
Economics 120	14	Literacy Through Graphic Novels 110	27
Electrical Wiring 110	14	Long-Term Care Coop 120	19
English 111 (Lit Text & Info Text)	15	Marketing 120	27
English 112 (Lit Text & Info Text)	15	Media Studies 120	20
English 113 (Lit Text & Info Text)	15	Metals Processing 110	20
English 121	15	Microelectronics 120	20
English 122	15	Mill and Cabinet Work 120	20
English 123	15	Modern History 111	20
Entrepreneurship 110	16	Modern History 112	20
FI Language Arts 110	16	Modern History 113	20
FI Language Arts 120	16	Music 112 (Choral)	20
FI Modern History 112	16	Music 112 (Guitar)	21
FI Techniques de Communication 120	16	Music 112 (Instrumental)	21
FI/FSL Biology 112	16	Music 112 (Keyboarding)	21
FI/FSL Canadian History 122	16	Music 122	21

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NBCC Skilled Trades & Work Ready Math 1208	21	Psychology 110	27
Nutrition for Healthy Living 120	21	Reading Tutor 120	24
Outdoor Education 110	21	Residential Finish and Insulation 120 (N/A 2022-23)	24
Personal Interest 1 and 2	22	Robotics & Automated Technology 120	24
Physical Education Leadership 120	22	Science 122 (Advanced)	25
Physical Geography 110	22	Sociology 120	25
Physics 111	22	Spanish 120	25
Physics 112	23	Tune Up and Emissions 120 (N/A 2022-23)	25
Physics 121	23	Visual Arts 110	25
Physics 122	23	Visual Arts 120	25
Political Science 120	23	Welding/Metals Fabrication 110	25
Post Intensive French 110	23	Welding/ Metals Fabrication 120	26
Post Intensive French 120	23	Wellness through Physical Education 110	26
Power Train and Chassis 120	24	World Issues 120	26
Pre-Calculus 110	24	Writing 110	26
Pre-Calculus 120 A	24		
Pre-Calculus 120 B	24		

**Also available on our website:
<http://leohayeshigh.nbed.nb.ca>**

AUTOMOTIVE ELECTRICAL SERVICES 120

This course introduces the student to the theory and operation of automobile electrical systems. Students will study the principles of electricity that includes electron theory, magnetism, and electrical systems and will then progress from the study of individual components such as coils, distributors, and alternators to the study of systems as a whole. Charging, ignition, and starting systems will be the main focus. This course also includes an introduction to engine management systems, scanning, and diagnostics. This course may be used as a science credit. **Power Train and Chassis must also be selected if you choose this course.**

BIOLOGY 111

Prerequisite: Science 10

Biology 111 is an advanced course that includes the following topics: microscopy, cellular biology, cellular respiration, principles of taxonomy, microorganisms and kingdoms of life. These topics will be covered in greater depth than in Biology 112. Teaching methods will combine lectures, independent and group research projects, laboratories (including dissections), guest speakers and field trips. An average above 85% in Science 10 is highly recommended for students taking this course.

Lab fee \$5.00.

BIOLOGY 112

Prerequisite: Science 10

Biology 11 explores the diversity among living things from viruses and bacteria to vertebrate zoology. Students understand the cell as the basic unit of life and the diversity of organisms that are organized into the various kingdoms of life. Students investigate the impact of biology and technology on society and the impact of human activities on the natural world. Students will participate in a wide variety of hands-on learning opportunities to help them better understand a wide variety of biological concepts.

Lab fee \$5.00

BIOLOGY 121

Recommended Prerequisite: Science 10 (with a mark of 85%)

This course is targeted toward students who have a strong science background and are interested in post-secondary studies in medicine, forestry, biotechnology and genomics. The program will focus on genetics, human reproduction, DNA replication, protein synthesis, biochemistry, ecological functions and the physiology of human sight and hearing. Students will present seminars, conduct lab experiments, take field trips and perform library and internet research.

Lab fee \$5.00.

BIOLOGY 122

Prerequisite: Science 10

This course is designed for students who plan to proceed to university or community college. Topics including Human reproduction, genetic, inheritance patterns, DNA replication, protein synthesis, cellular function and population dynamics will be investigated by students taking this course, in lecture and lab sessions.

Lab fee \$5.00.

CALCULUS 120

Pre-requisites: Pre-Calculus 12A & 12B

This course will extend students' knowledge in the area of Calculus by studying the following topics: limits (continued), derivatives, applications of derivatives, curve sketching, and an introduction to anti-derivatives. This course is recommended for higher ability math students (entering university Math/Science based fields of study). At the completion of this course students will be prepared for and have the option to write the "Calculus Challenge Exam" at UNB. Please visit www.math.unb.ca for more details. This course will only be offered in semester two.

CANADIAN GEOGRAPHY 120

Where we live plays a tremendous role in our culture and our day-to-day lives. This course is a study of the ever-changing cultural and physical landscapes of Canada and how they impact each other. It considers where things are, why they are there, and what this means in our lives today and

into the future. Included is a look at environmental issues that affect all Canadians. Students will use a wide range of new skills and information to project a vision of Canada in the future.

CANADIAN HISTORY 122

Prerequisite: History 111/112

This course explores the deep and often complex history of Canada since Confederation. It includes the study of Indigenous issues, immigration, industrialism, American and British influence, Canada's participation in World Wars, the French-English relationship, and multiculturalism. Students will explore Canada's current strengths and weaknesses and its place in the world. You will learn through videos, music, Canadian literature, and more.

CAREER EXPLORATION 110

This course is intended for grade 11 students

Are you looking for an opportunity to explore possible career options, gain actual work experience and earn two credits while still in school? Career Exploration will allow you to explore and identify personal characteristics, consider various career paths and develop skills in the workplace. Trades related placement hours can be credited towards Apprenticeship Certification. Due to the out-of-school workplace component of this course, an interview process is required that will consider teacher recommendations, attendance patterns, commitment to learning and the ability to represent the school in a mature and responsible manner. Own transportation to workplace required. ***Enrollment is limited.***

CHEMISTRY 111

Prerequisites: Science 10; GMF Math 10

Recommended Corequisite: Foundations 110

Chemistry 111 is designed for students who may be pursuing science, engineering, nursing or a related field at the post-secondary level. It is the first of two chemistry courses which exposes students to the development of atomic theory, the classification and structure of matter, elements and compounds, bonding, molecular shape, the mole, chemical reactions and stoichiometry. Chemistry 111 will cover more topics than Chemistry 112, therefore a more accelerated

learning pace can be expected. In addition to several labs (including a field trip to UNB), students will be expected to do an enrichment project. An average above 85% in Science 10 and Math 10(GMF/NRF) is highly recommended for students taking this course.

Lab fee \$5.00.

CHEMISTRY 112

Prerequisites: Science 10; GMF Math 10

Recommended Corequisite: Foundations 110

Chemistry 112 is designed for students who may be pursuing science, engineering or a related field at the post-secondary level. It is the first of two chemistry courses which exposes students to the development of atomic theory, the classification and structure of matter, elements and compounds, bonding, molecular shape, the mole, chemical reactions and stoichiometry. Students will have the opportunity to perform lab experiments to support their understanding of these concepts. Although NRF 10 is not an official prerequisite, a demonstrated competency in math skills is an essential asset for this course.

Lab fee \$5.00.

CHEMISTRY 121

Prerequisites: Chemistry 111

Recommended Corequisite: Foundations 110

Chemistry 121 is designed for students who are interested in pursuing science, engineering, nursing or a related field at the post-secondary level. Chemistry 121 will cover more topics than Chemistry 122, therefore an accelerated learning pace can be expected. Previous concepts from Chemistry 11 will be applied to new topics including thermochemistry, kinetics & equilibrium, acids & bases and organic chemistry. In addition to several lab reports, students will be expected to do an individual enrichment project. A minimum mark of 85% in Chemistry 111 is recommended for students taking this course.

Lab fee \$5.00.

CHEMISTRY 122

Prerequisite: Chemistry 112/1

Recommended Prerequisite: Foundations 110

Chemistry 122 is designed for students who are interested in pursuing science, engineering, nursing or a related field at the post-secondary

level. Chemistry 11 is a required prerequisite as previous concepts will be applied to new topics including thermochemistry, kinetics & equilibrium, acids & bases and organic chemistry. Students will have the opportunity to perform lab experiments to support their understanding of these concepts. Foundations of Math 110 is strongly recommended as a prerequisite due to the math skills required in this course.

Lab fee \$5.00.

CHILD STUDIES 120

This course explores the early years of childhood development. How does a baby develop in the womb? How do children learn? What support and care do children need? It is an in-depth theory course designed for students who have an interest in continuing study in fields such as childhood education, nursing, child psychology or social work. Topics covered: heredity, conception, prenatal developments, pregnancy and childbirth, child growth and development. Mandatory component: Extended observation of a young child. The student is responsible for choosing the child to observe and study outside of regular class time.

COMPUTER SCIENCE 110 (Introduction to Gaming)

Interested in creating your own computer programs? In this course for beginners, you will learn the fundamentals of programming using Visual Basic. Activities include the creation of programs to solve problems and the creation of simple games. Computer Science 110 is recognized as an entrance credit at UNB. This course is also an area of concentration credit for the FIT certificate (Focus on Information Technology Program).



COMPUTER SCIENCE 120 Recommended Prerequisite: Computer Sci.110

This is an advanced course intended for students who have prior programming experience and will benefit students who will be entering Engineering or Computer Science post-secondary programs. The software used in this course is Java.



CO-OPERATIVE EDUCATION 120

This course is intended for grade 12 students

Cooperative Education will allow you to explore your career interest through an extensive workplace component during which you will learn more about your career field and the skills and learning required for success. Co-Op will help you to formulate more specific learning and career goals. Trades related placement hours can be credited towards Apprenticeship Certification. Due to the out-of-school workplace component of this course, an interview process is required that will consider teacher recommendations, attendance patterns, commitment to learning, the ability to represent the school in a mature and responsible manner and **your own access to transportation to and from the workplace.** *Students may select either a 3-period morning coop or a 2-period afternoon coop. **Enrolment is limited.***

CREATIVE ARTS 110

This elective course is an overview course designed for all learners who have an interest in the arts. No previous experience is needed as this course is intended to give students exposure to a wide range of media, including music, art, drama, and literature for purposes of analysis, application, historical research, and demonstration of understanding. Students will be expected to take part in discussions, research, and creation of work to demonstrate understanding and develop creativity and higher order thinking skills. Students will learn how the arts are connected to and contribute to everyday life and build understanding of the value that the arts has within our lives. Students are encouraged to participate in activities and art experiences outside the school day. For example, attending music concerts, art exhibits or dramatic presentations or in lieu of live events, respond to recordings, live stream, virtual tours and other online resources may enhance the learning experience.

Lab fee: \$5

CULINARY TECHNOLOGY 110

Culinary Technology 110 is an entry level hands-on food service training course designed for students who may be considering a career in the

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food service industry. Culinary skill sets include: industry organization, standards, safety and sanitation, use of tools and equipment, and food preparation. Students will study the theory of each skill and then practice those skills under supervised lab activities. The activities include preparation of the following foods- quick breads, yeast bread and rolls, cakes and cookies, pies and pastry, and beverages. Catering events are also part of this course and are completed outside of class time.

Lab fee: \$25.00.

CULINARY TECHNOLOGY 120

Prerequisite: Culinary Technology 110

This course continues to develop the skills learned in Culinary Technology 110. Topics of study include food preparation-soups, grilling, broiling, sandwiches, salads, salad dressing, fruits, vegetables; job search skills; large equipment operation and food borne illnesses. This course will require students to participate in school-based catering opportunities such as “Meals to Go” and other events outside of class time during noon hours and evenings. **Enrolment is limited.**

Lab fee: \$25.00.

CYBERSECURITY 120

The Cybersecurity 120 (CYBER120) course will inspire students through the experiential learning of the fundamentals and possibilities of cybersecurity. In CYBER120, students will be actively engaged in the design, development and evaluation of defensive cybersecurity projects, including awareness, concepts and challenges. The intent of this program of study is to have students discussing real-world case studies and learning in hands-on activities from day one, while maintaining a high level of engagement throughout the course through a commitment to problem-based and project-based learning.



DRAMATIC ARTS 110

Are you interested in acting? Dramatic Arts 110 is a performance class where you get the opportunity learn the skills of acting. You will be shown a wide range of dramatic styles and get a chance to perform in scenes, short skits, monologues and one act plays. In addition to

acting skills, you will develop more self-confidence as you step out of your comfort zone in a fun and accepting class environment. This course is highly participatory and requires excellent attendance.

DRAMATIC ARTS 120

Take your acting further! This course builds on Dramatic Arts 110 with an enhanced level of theatrical experience. You will be expected to have more involvement and ownership of acting choices. You will work individually, independently, in small groups, and in larger ensembles to create, analyze, and perform scenes, monologues, physical theatre and one act plays. Successful completion of Dramatic Arts 110 is highly encouraged, but not required, especially if you have acting experience in extra-curricular acting studios. This course is highly participatory and requires excellent attendance.

DIGITAL PRODUCTION 120

Digital Media can be defined as information that can be created, viewed, organized, distributed, modified and preserved using computers. If you are interested in Digital Media, creating web sites, and working with digital audio, Digital Productions 120 can offer you the skills you need to create different digital media. This class is a skills-based course designed for those who are self-directed and motivated to learn more about digital media as it relates to Digital Media. No prerequisite required. This course is also an area of concentration credit for the FIT certificate (Focus on Information Technology Program).

ECONOMICS 120

Economics 120 provides a basic understanding of our economic system and how it works. The role of Canada’s major economic institutions and how they interact is examined. It is designed to develop an understanding of the concepts and techniques needed in making economic decisions and to develop an awareness of the major economic problems and issues of the day.

ELECTRICAL WIRING 110 (RESIDENTIAL)

The course will be of interest to students interested in exploring careers related to the electrical trade. Students will be introduced to

Canadian Electrical Code (CEC) standards. They will learn to design, install, test, and troubleshoot circuits, and become familiar with the tools, techniques, materials, and devices associated with it. Students will also be introduced to blueprint reading.

ENGLISH LANG ARTS INFO TEXT 111

ENGLISH LANG ARTS LIT TEXT 111

Prerequisite: English 10 with mark of 85%

Each semester course is designed with a focus on building an awareness of strategies and processes to construct meaning and enjoyment from texts. Students will study the author's craft, providing a model they can imitate in their own writing; apply critical, analytical, and creative thinking skills; identify and solve problems; and engage in thinking about and discussing problems and issues that concern them. Level one courses increase in pace, scope and depth of the study of texts. **Students must select both English Literary Text and Informational Text.**

ENGLISH LANG ARTS INFO TEXT 112

ENGLISH LANG ARTS LIT TEXT 112

Prerequisite: English 10 (Lit Text & Info Text)

Each semester course is designed with a focus on building an awareness of strategies and processes to construct meaning and enjoyment from texts. Students will study the author's craft, providing a model they can imitate in their own writing; apply critical, analytical, and creative thinking skills; identify and solve problems; and engage in thinking about and discussing problems and issues that concern them. Level Two courses are designed to prepare students for post-secondary expectations. **Students must select both English Literary Text and Informational Text**

ENGLISH LANG ARTS INFO TEXT 113

ENGLISH LANG ARTS LIT TEXT 113

Prerequisite: English 10 (Lit Text & Info Text)

Each semester course is designed with a focus on building a balanced literacy framework that meets learners where they are as readers, writers, and speakers through guided, independent, and applied practices in reading and writing. Learners spend most of their time working, not watching; skills are demonstrated to learners when they need them; learners are coached and receive

ongoing feedback and support. Level Three courses are designed to prepare students for college entry or the world of work. **Students must select both English Literary Text and Informational Text**

ENGLISH LANG ARTS 121

Prerequisites: Eng. 111 (Lit Text & Info Text)

This semester course is designed for students wishing to pursue the study of English at a more advanced pace and scope. Students will build understanding by listening to, reading, and viewing a range of spoken, written, and visual texts representing all voices. They will respond personally and critically to the works of authors, creators, illustrators, and speakers; speak, write and represent to learn about self, others, and the world; and create texts, collaboratively and independently, for specific audiences and purposes.

ENGLISH LANG ARTS 122

Prerequisites: Eng. 11 (Lit Text & Info Text)

This semester course is designed for students wishing to pursue a post-secondary education. Students will build understanding by listening to, reading, and viewing a range of spoken, written, and visual texts representing all voices. They will respond personally and critically to the works of authors, creators, illustrators, and speakers; speak, write and represent to learn about self, others, and the world; and create texts, collaboratively and independently.

ENGLISH LANG ARTS 123

Prerequisites: Eng. 11 (Lit Text & Info Text)

This semester course is designed to prepare students for some community colleges and/or direct employment after completion of high school. The course is designed with a focus on building a balanced literacy framework that meets learners where they are as readers, writers, and speakers through guided, independent, and applied practices in reading and writing. Learners spend most of their time working, not watching; skills are demonstrated to learners when they need them; learners are coached and receive ongoing feedback and support.

ENTREPRENEURSHIP 110

This course is designed for students interested in developing the skills essential for starting a small business or pursuing careers in marketing, business or finance. Through a combination of classroom theory, group tasks, and individual work, students will develop their own comprehensive business plan, based on an original idea.

FI LANGUAGE ARTS 110

French immersion students will continue to develop their French language skills in this course, through a variety of reading, writing, listening, speaking and social activities. Students will explore oral, regional & poetic language, present a debate, and improve their linguistic abilities and increase cultural understanding of and their place in the Francophone world.

FI LANGUAGE ARTS 120

French immersion students will continue to develop their French language skills in this course. French literature will be used to expand communication and reflection skills in reading and writing with particular emphasis on oral language skills. Students will develop critical thinking and social interaction skills necessary in our fast-changing society with short stories & french novels. They will continue to be exposed to cultural similarities & differences to be able to understand others better and interact as well-rounded citizens of the world. Students in this course will have the opportunity to participate in the French Oral Proficiency Interview and will receive a certificate from the Province of New Brunswick indicating their proficiency level.

FI MODERN HISTORY 112

Prerequisite: F.I. Language Arts 10 and Social Studies 10

Build on your existing French language skills while learning the story of the human community - how people lived, how people shared ideas, how they ruled and were ruled, and how they fought. Modern History is a journey through historical development from the French Revolution to the Cold War. In this course you will learn about big ideas that have shaped the world we live in today.

FI TECHNIQUES DE COMMUNICATION 120

Develop and enhance French oral communication skills through a variety of oral interaction activities and presentations. The use of appropriate language conventions in both written and spoken French will be emphasized. Students in this course will have the opportunity to participate in the French Oral Proficiency Interview and will receive a certificate from the Province of New Brunswick indicating their proficiency level.

FI/FSL BIOLOGY 112

Prerequisite: F.I. Science 10

Biology 11 explores the diversity among living things from viruses and bacteria to vertebrate zoology. Students understand the cell as the basic unit of life and the diversity of organisms that are organized into the various kingdoms of life. Students investigate the impact of biology and technology on society and the impact of human activities on the natural world. Students will participate in a wide variety of hands-on learning opportunities to help them better understand a wide variety of biological concepts.

Lab fee: \$5.00

FI/FSL CANADIAN HISTORY 122

Prerequisite: Mod. History 111/112 or FI Mod. History 112

Build on your existing French language skills while exploring the deep and often complex history of Canada since Confederation. It includes the study of Indigenous issues, immigration, industrialism, American and British influence, Canada's participation in World Wars, the French-English relationship, and multiculturalism. Students will explore Canada's current strengths and weaknesses and its place in the world. You will learn through videos, music, Canadian literature, and more.

FI/FSL FOUNDATIONS OF MATHEMATICS 110

Prerequisite: Numbers, Relations & Functions 10 and Geometry, Measurement & Finance 10

Build on your existing French language skills while learning financial mathematics, geometry, measurement, number, logical reasoning, and relations and functions. This course is the first course in the Foundations pathway and the

prerequisite for the Pre-Calculus pathway. Students must pass this course to enter into the Pre-Calculus courses and/or to take Foundations 12. Students entering this pathway should have a 70% or higher in Numbers, Relations and Functions 10.

**FI/FSL INDIVIDUAL AND FAMILY DYNAMICS
120 (Relations Familiales)**

Build on your existing French language skills while studying personal development, relationships, and the importance of family. You will gain theoretical understanding of how individuals relate to family, friends, and society, and explore your own development and relationships with others. You will also learn strategies on how to cope with the ever-changing issues that impact our lives. This course complements further studies in psychology, sociology, teaching, social work, and family life education. Students in this course will have the opportunity to participate in the French Oral Proficiency Interview and will receive a certificate from the Province of New Brunswick indicating their proficiency level.

FI/FSL PRE-CALCULUS 110

Prerequisite: Foundations of Math 110

Build on your existing French language skills in this first course in the Pre-Calculus pathway which is designed for entry into post-secondary programs that require the study of theoretical calculus. Topics include algebra and number, relations and functions, and trigonometry. Students entering this pathway should have a 70% or higher in the Foundations 11 course.

**FINANCIAL & WORKPLACE MATHEMATICS
110**

Prerequisite: Geometry, Measurement & Finance 10

This course is the first course in the Financial and Workplace pathway which is designed for entry into Bachelor of Arts, many college courses, the majority of trades and for direct entry into the work force. Topics include financial mathematics, algebra, geometry, measurement, number, and statistics.

FOUNDATIONS OF MATHEMATICS 110

Prerequisite: Numbers, Relations & Functions 10 and Geometry, Measurement & Finance 10

This course is the first course in the Foundations pathway and the prerequisite for the Pre-Calculus pathway. The Foundations pathway is designed for entry into non-math-based degrees and technical courses at the college level. Students must pass this course to enter into the Pre-Calculus courses and/or to take Foundations 12. Topics include financial mathematics, geometry, measurement, number, logical reasoning, and relations and functions. Students entering this pathway should have a 70% or higher in Numbers, Relations and Functions 10.

FOUNDATIONS OF MATHEMATICS 120

Prerequisite: Foundations of Math 110

This course is the second course in the Foundations pathway. The Foundations pathway is designed for entry into non-math-based degrees and technical courses at the college level. Topics include statistics, probability, relations and functions.

FRAMING AND SHEATHING 110

Not offered in 2022-23; Available 23-24

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. **Residential Finish and Insulation 120 must also be chosen.**

Lab Fee: \$10.00

GRAPHIC ARTS AND DESIGN 110

Prerequisite: Grade 10 Visual Arts.

Students will explore skills, processes and knowledge involved in graphic art and design in order to create original art and design products such as logos, illustrations, and more. Images will be created by hand and/or computer. A strong interest in Art and a high level of dedication to artwork is required for this course.

Lab fee: \$5.00.

GROWTH, GOALS & GRIT: SKILLS FOR SUCCESS 120

This course will help students develop skills in three main areas: positive and productive mindsets and behaviours, organizational patterns, as well as functional and critical literacy. Within the learning expectations of the course, specific success skills, strategies, and practices will be explored. Students will be supported to transfer these skills, strategies and practices to authentic life situations and circumstances, including their other courses. Students will also learn how these support their plans for life after high school.

HOSPITALITY AND TOURISM 110

Looking for a fun, interesting, and dynamic career option? Hospitality & Tourism 110 may be for you! In this introductory course, you will learn about one of the fastest growing industries in North America and its many social and economic benefits. You will also learn about the abundance of world-wide job opportunities available in Tourism and how you can pursue them. Some of the potential career choices are chef, pilot, flight attendant, ski/snow board instructor, travel agent, hotel manager, party planner, and the list goes on. Come discover the world of Tourism and all its possibilities.

HOUSING AND DESIGN 120

Housing and Design is intended for students who are interested in learning more about the housing environment in the past, present and future. You will learn about housing decisions as this may account for the single largest expenditure for the majority of people. This course also requires creativity and individuality in designing a living environment with a focus on interior décor.

Lab fee \$10.

HUMAN PHYSIOLOGY 110

Prerequisite: Science 10

This course is designed to appeal to a wide range of learners, including students for whom this will serve to fulfill their science graduation requirement. The goal of this course is to build an understanding of the physiology of the human body. Throughout the course students will build their scientific literacy skills as they learn to navigate the extensive volumes of information on

human health now available - in particular on the Internet. 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 effect of disease and lifestyle choices.

Lab fee \$5.00.

INDIGENOUS STUDIES 120

This course is designed to promote understanding of the Mi'kmaq and Wolastoqey cultures in the Maritime provinces—past, present, and future—and to see how Native and non-Native views have influenced the course of events in the Maritimes. Some of the units to be considered are language and culture, religion and spirituality, ancient times, arts and crafts, community and colonial relations. This elective course is open to all grade 11 and 12 students who are interested in developing an understanding of Indigenous culture and—perspectives on various Indigenous issues.

INDIVIDUAL AND FAMILY DYNAMICS 120

The main theme of this course is the individual in relation to the family, friends and society. Students will explore their own development through a study of themselves and their relationships with others. Topics covered include personal development, relationships and the importance of family. Students will learn strategies on how to cope with the ever-changing issues that impact our lives. This course is an excellent introduction to further studies in psychology, sociology, teaching, social work, and family life education. Student projects are an integral part of this course.

INFORMATION TECHNOLOGY 120

IT 120 offers students the opportunity to become competent using information processing tools in Microsoft Office 365. Word processing, worksheets, and presentations are key components of this course. Whether you plan to join the workforce or pursue post-secondary studies immediately following high school, this course will be of benefit to you. This course is also a general skill credit for the FIT certificate (Focus on Information Technology Program).

INTERNAL COMBUSTION ENGINES 110

Not offered in 2022-23; Available 23-24

This course content includes the theory of operation and function of the engine systems. 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 the automotive, aircraft or marine service industries. ***Tune Up and Emissions 120 must also be chosen.***

INTRO TO APPLIED TECHNOLOGY 110

Whether you are a trade's-oriented person or academic, this is a good course to take! You will receive hands-on training and have a chance to learn valuable life skills. You will learn how to competently use various wood working hand tools, as well as stationery and power tools. The following topics will be covered in the semester:

- Safety
- Machine instruction
- Wood working
- Design project
- Reading Blueprints

Over the semester, you will learn a variety of skills from dressing rough lumber to size to applying a finish.

Lab fee \$50.00

INTRO TO EARLY CHILDHOOD COOP 120

Early Childhood Coop is a two or three-period coop program where you work in a licensed childcare centre and complete the Early Childhood 90-hour online course. You will complete the coop program as normal, but you will also spend time working with a childcare expert to complete the online part of the program. If successful, you will earn the Early Childhood Certificate that shows you are ready to work in any licensed childcare centre in the province. Transportation is required.

Enrolment is limited. Only students seriously planning a career working in a day care should apply.

INTRO TO ELECTRONICS 110

Recommended Prerequisite: GMF & NRF 10

Resistors, transformers, batteries, capacitors, inductors, and basic circuit analysis...sound interesting? Students with a career objective in the

technical trades, an interest in this technology as a hobby, or for those who plan to pursue a career in engineering will benefit from this course. It is also recognized as an entrance credit for Engineering Degree Programs at UNB.

INTRO TO ENVIRONMENTAL SCIENCE 120

Prerequisite: Science 10

The objective of this course is for students to develop the knowledge base and skills for investigating and analyzing environmental issues (local and global) and for communicating their knowledge and analysis to others. Students will investigate population growth and resource limitations, ecology of natural systems, human impacts on the natural world, historical and current perspectives of the environment, and other related topics. Each student will research a current environmental issue, explore current solutions to environmental problems, and in groups, share their findings with the class. Students will also choose from an extensive list, a few projects that suit their interest (i.e., Outdoor activities, art, research, photography, etc.), with the aim of increasing their appreciation/respect/understanding of the environment.

Lab fee: \$5.00

LAW 120

Who writes the law? Who enforces the law? How does the law impact my life? What are my rights? The aim of the course is to provide students with a basic understanding of the Canadian Legal System. While the course does have a theoretical side, it is designed to be highly interactive. Students will be encouraged to engage in discussion and debate and share ideas freely with the class.

LONG-TERM CARE CO-OP 120

Long-term Care Coop is a three-period coop program at a licensed long-term care facility with seniors and other individuals needing long-term care. You will spend the morning at a care facility near your school and earn two credits in Co-op 120 and one credit in Health Care 110. You will also receive "employment ready recognition" from the care facility. An excellent opportunity for students interested in Resident Assistant or Personal Support Worker careers. ***Enrollment is limited.***

MEDIA STUDIES 120

Media Studies centers on learning how to analyze the messages that inform, entertain and sell to us every day. We'll use critical thinking skills on all media—from music videos and Web environments to product placement in films and virtual displays on NHL hockey boards! We'll develop your instinct to question what lies behind media productions – the motives, the money, the values and ownership. The course also depends upon lots of group collaboration and your work on many multimedia projects. In lieu of an exam, students will present a seminar and major term project.

METALS PROCESSING 110

This course develops skills in the operation of lathes, shapers, grinders and milling machines in the lab, students learn a variety of processes used to form parts for machines and tools. This course would appeal to students interested in pursuing a career in the mechanic or machines trades, mechanical engineering or mechanical technology area.

Lab fee \$25

MICROELECTRONICS 120

Recommended Prerequisite: Intro TO Electronics 110

Through theory and practical labs, this course is designed to introduce students to the world of semiconductors and digital electronics. Students planning a career at the electrical occupational or engineering levels, or who have a keen interest in electronics/computers should consider this course.

MILL AND CABINET WORK 120

Recommended pre-requisite: Applied Tech 110 (Introduction to)

Do you like building projects with your hands? This is the second of the woodworking classes offered which engages students who have previous woodworking experience. You will learn how to effectively and safely use a variety of wood working and hand tools. Topics will include learning about the Tree to shelf process and how Lumber is harvested, dressing stock, advanced joinery techniques, moldings, and traditional woodworking methods. Other projects may

include special projects or personal projects if time allows.

Lab fee \$50.

MODERN HISTORY 111

Prerequisite: Recommended mark of 85% and recommendation of Social Studies 10 teacher.

History 111 closely mirrors History 112 in the exploration of big ideas and modern developments in our history. As a level 1 course students will be exposed to more independent work, project-based learning and primary source discovery. This is a course for self-motivated history lovers.

MODERN HISTORY 112

Prerequisite: Social Studies 10

History is the story of the human community-how people lived, how people shared ideas, how they ruled and were ruled, and how they fought. Modern History is a journey through historical development from the French Revolution to the Cold War. In this course you will learn about big ideas that have shaped the world we live in today.

MODERN HISTORY 113

Prerequisite: Social Studies 10

A journey through the major events and ideas of Modern History, this course begins with 18th century revolution and travels through the industrial age, world wars, the Roaring Twenties and Dirty Thirties all the way to the Cold War and current events. Students will learn the basics of thinking like a historian as they analyze our recent past.

MUSIC 112 (CHORAL)

Prerequisite: Grade 10 Music

This course is designed for students who have taken the grade 10 Music course and who wish to further develop their skill in singing and their knowledge of music. Approximately half of the class time is spent on sight-reading, working repertoire, and vocal technique. The remainder of the class time will include the study of theory and music appreciation. Composition using various forms of technology are included so familiarity with technology will be an asset. In-class solo and group performances occur regularly. **Students interested in participating in the school production*

as an extra-curricular may benefit from the skills learned in this course.

MUSIC 112 (GUITAR)

Prerequisite: Grade 10 Music

This course is designed for students that have taken Grade 10 music and wish to extend their study with a specific guitar focus. Students will learn to read music and compose and perform pieces. The course will study the development of the guitar historically and learn performance techniques and theory through various styles such as blues, jazz, folk, and classical.

MUSIC 112 (INSTRUMENTAL)

Recommended Prerequisite: Music 10

This course is for anyone who has played an instrument for the last two or more years.

Approximately 50% of class time is spent on creating and performing a varied repertoire on your instrument of choice and developing fluency in technology that meets industry standards. The balance of the time is spent on theory and music appreciation. There will be opportunity to perform and compose for both solo and group performances. The course builds on outcomes and experiences covered in grades 9/10.

MUSIC 112 (KEYBOARDING)

Recommended Prerequisite: Music 10

This course is designed for students who have taken the grade 10 Music course and who wish to extend their experience to more advanced skills. Approximately half of the class time will be spent playing the keyboard while the remainder will be used to study how music is put together. Composition using various forms of technology is included so familiarity with technology will be an asset. In-class solo and group performances occur regularly.

MUSIC 122

Choral, Instrumental, Guitar, or Keyboarding

Recommended Prerequisite: Music 112

Students enrolled in any strand of this course will have a strong interest in music. As part of this course, students will be expected to work individually and in small groups in composition, research, and performance. Students who successfully complete Music 122 will have a strong

foundation to study music as a vocation after high school or to pursue it in post-secondary studies.

NBCC Skilled Trades and Work-Ready Math 120

Prerequisites: Financial & Workplace Math 110 or Foundations Math 110

The purpose of this course is to refresh skills in mathematics developed throughout school in areas deemed essential for the successful completion of trades programs. Although the topics covered in this course are common to any math program, every effort is made to illustrate their usage in the trades' professions. Upon completion of this course students will receive a high school credit and, in addition, if they attend a trades' program at NBCC they may apply for the Math 1208 credit thus this course provides dual credit at high school and NBCC. Topics include: decimals, fractions, percentages, measurement, area, volume and perimeter.

NUTRITION FOR HEALTHY LIVING 120

This course is designed to introduce students to making healthy food choices, maintaining a balance between eating habits and physical activity and the use of preventative strategies that contribute to overall wellness. Current health trends and issues relating to chronic diseases, lifestyles, and food technologies will be explored and students will be encouraged to use research and reliable information to examine their own eating habits and lifestyle choices. This course will be of interest to students concerned with personal wellness and those interested in pursuing a career in a health or wellness related field.

OUTDOOR Education 110

Recommended Prerequisite: Grade 10 Health & Phys. Educ.

This course will develop personal outdoor recreation skills based on environmental ethics. Students will learn many different outdoor skills. Possible topics covered include fire making, outdoor cooking, skiing, snowshoeing, tree identification, map reading, compass and gps, wild edible and poisonous plants, knot tying and archery. Students must be prepared to plan, lead and evaluate out-trip experiences from personal and group dynamics perspectives. Please note that

it is recommended that students do not take this course and PE Leadership 120 during the same semester. **Enrolment is limited.**

Course fee: \$100

PERSONAL INTEREST 1

Designed for grade 12 students, the one credit Personal Interest course will appeal to those interested in a self-directed exploration of a topic or subject of their own choosing. Students selecting this course are provided with the time and opportunity, to develop and pursue personal interests. Students will be required to design the program of study in conjunction with their teacher(s), and/or other mentors in the school or community. Students must follow safety guidelines and review and follow policies related to their projects. Students will need a high degree of independence and there is an application process for those interested. The outcomes for the Personal Interest course are based on the New Brunswick Global Competencies. **Application required—see Guidance.**

PERSONAL INTEREST 2

Designed for grade 12 students, the 2- period/ 2 credit Personal Interest Block will appeal to those interested in an in-depth, self-directed exploration of a topic or subject of their own choosing. Students will be required to design the program of study in conjunction with their teacher(s), and/or other mentors in the school or community. They will need to be self-starters, highly motivated and able to work with minimal supervision. Students must follow safety guidelines and review and follow policies related to their projects.

Students will have approximately 160 hours to devote to their project during the school day, but extra time is often required outside of school. Due to the amount of time provided, the breadth, scope and expectations of the projects produced in the Personal Interest 1&2 course are greater than those of the one credit Personal Interest course. The outcomes for the Personal Interest course are based on the New Brunswick Global Competencies. **Application required—see Guidance.**

PHYSICAL EDUCATION LEADERSHIP 120

Recommended Prerequisite: Grade 10 Phys. Ed.

Health and Physical Education 120 is an elective course for students who wish to develop leadership skills. The purpose of the course is to prepare students to become skilled and knowledgeable in order to become involved and assume leadership in community and school sport and recreation programs. The course will involve both theoretical and practical aspects. The theory will deal with the concept of leadership; characteristics of leaders and those led; sport and recreation in contemporary society; and health concerns of leaders. The practical aspects will deal with managing, teaching, coaching, and officiating, athletic injuries. Students are required to volunteer for 35 hours during the semester in and out of class time. Please note that it is recommended that students do not take this course and Outdoor Pursuits 110 during the same semester. **Enrolment is limited.**

Course fee \$40.

PHYSICAL GEOGRAPHY 110

Prerequisite: Science 10

This course is designed to appeal to a wide range of learners, including students for whom this will serve to fulfill their science graduation requirement. “A Portrait of a Planet” involves students in an examination of the current state of planet Earth. Students will determine how the Earth came to be the way it is today and look at the long-term future of the planet and its passengers. The course is particularly recommended to students who are interested in the scientific fields of astronomy, oceanography, geology, meteorology, mapping, or urban and rural planning. The course also presents an introduction to skills and methods that are basic to further study of survey engineering.

PHYSICS 111

Prerequisites: Science 10 & GMF Math 10;

Recommended Co-Requisite: Foundations Math 110

An enriched physics course for the motivated science student. Students employ the scientific method in gathering experimental data, and laboratory work is a major part of this course. Topics covered will be the same as those in

Physics 112 but the depth of coverage will be greater and independent project work may be required. An average of 85%+ in Science 10 and Math 10 (GMF/NRF) is recommended for students taking this course.

PHYSICS 112

Prerequisites: Science 10; GMF Math 10

Recommended Co-Requisite: Foundations Math 110

Physics 112 is an introductory course into Physics, designed to have students' question and understand the physical world around them. Successful completion of Physics 112, as well as giving a science credit for high school graduation, provides valuable background for those university-bound students interested in such fields as engineering, physics, oceanography, meteorology, astronautics, any of the physical sciences, or any program for which Physics is a prerequisite. Topics covered include measurement, vectors, kinematics, including uniform motion and accelerated motion, Newton's laws of motion, forces and dynamics, introduction to momentum, work, power, energy, conservation of energy, wave motion, sound waves and light.

PHYSICS 121

Prerequisite: Physics 111

Recommended Prerequisite Pre-Calculus 110

Physics 121 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 a major part of this course. Topics covered will be the same as Physics 122 (vectors, dynamics II, Newton's laws', applications, momentum and energy conservation, projectile motion, circular motion, universal gravitation, Kepler's Laws, field theory, electrostatics, and electricity) but the depth of coverage will be greater and independent project work will be required.

PHYSICS 122

Prerequisites: Physics 112/111

Recommended Prerequisite: Pre-Calculus 110

Students planning to take science or engineering at university should consider taking this course. This is the second of two sequential Physics courses and is designed for students who have successfully completed Physics 112 or equivalent. Topics covered include vectors, dynamics II, Newton's laws', applications, momentum and energy conservation, projectile motion, circular motion, universal gravitation, Kepler's Laws, field theory, electrostatics, and electricity.

POLITICAL SCIENCE 120

What is power? How does government function? Who is responsible for making the rules and what must they consider? This course will look at the most common theories in political discussion and help the student understand why our leaders take such different approaches to making laws and shaping our world. Students will learn to evaluate political ideas, understand political debate, and speak clearly about their political beliefs. This course is valuable for both political newbies and political enthusiasts.

POST-INTENSIVE FRENCH 110

Continue to develop your French language skills through a variety of speaking, reading, and writing activities intended to improve French proficiency. The course is designed for students who have NOT been in French Immersion and focuses primarily on oral communication skills. Themes at this level include injustice, mysteries, and the power of photographs. Instruction, materials, and classroom interactions will be in French.

POST-INTENSIVE FRENCH 120

Continue to develop your French language skills through a variety of speaking, reading, and writing activities intended to improve French proficiency. The course is designed for students who have NOT been in French Immersion and focuses primarily on oral communication skills. Themes of study include planning for the future, ecological challenges, and cultures of the World.

Students in this course will have the opportunity to participate in the French Oral Proficiency Interview and will receive a certificate from the

Province of New Brunswick indicating their proficiency level. Instruction, materials, and classroom interactions will be in French.

POWER TRAIN AND CHASSIS 110

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. Students planning on pursuing a career in the motor vehicle service industry would benefit from this course. ***Automotive Electrical Systems 120 must also be selected.***

PRE-CALCULUS 110

Prerequisite: Foundations of Mathematics 110

This course is the first course in the Pre-Calculus pathway which is designed for entry into post-secondary programs that require the study of theoretical calculus. Topics include algebra and number, relations and functions, and trigonometry. Students entering this pathway should have a 70% or higher in the Foundations 11 course.

PRE-CALCULUS 120A

Prerequisite: Pre-Calculus 110

The Pre-Calculus pathway is designed for entry into post-secondary programs that require the study of theoretical calculus. Topics include in-depth study of trigonometry and various functions both graphically and algebraically. Students entering this pathway should have a 70% or higher in the Pre-Calculus 11 course.

PRE-CALCULUS 120B

Pre-requisite: Pre-Calculus 12A

The Pre-Calculus pathway is designed for entry into post-secondary programs that require the study of theoretical calculus. Topics include sequences and series, radical, polynomial, rational and reciprocal functions. Students entering this pathway should have a 70% or higher in the Pre-Calculus 12A course.

READING TUTOR 120

As an elective course for grade twelve students who have successfully completed English 112/1, Reading Tutor 120 provides students with the unique opportunity to act as both one-on-one tutors of reading and writing as well as mentors to help struggling students cultivate motivation within and find success at school. Of particular interest to students with a desire to work with people (teachers, social workers, psychologists, health professionals, etc.), this course requires students to complete approximately six weeks of training in reading and writing theory followed by one-on-one tutoring that requires planning daily individual lessons for their tutees, keeping a journal of activities, and a portfolio of their tutee's work. Students selecting this course should have excellent attendance, strong interpersonal and organizational skills, a good academic record, and a desire to help others.

RESIDENTIAL FINISH AND INSULATION 120

Not offered in 2022-23; Available 23-24

This advanced building construction course enables students to acquire knowledge and skills in the installation interior and of insulation, wall and ceiling cladding and the installation of trim, doors and windows. This course will be of interest to students exploring career opportunities in the building construction industry. ***Framing and Sheathing 110 must also be chosen.***
Lab fee \$15.

ROBOTICS & AUTOMATED TECHNOLOGY 120

This is a technical course that deals primarily in Pneumatic systems and EV3 robotics. Students will learn about the various components of Pneumatic systems used in industry and how they are utilized. Classes are largely lab based using hands-on training centers and actual equipment, to complete the lab exercises. The robotics part of this class will see students do a 6-8-week study on Engineering in Robotics using the Lego EV3 as a medium. Students will learn how to program the EV3 brick, download the program into a Robot they have built complete with various sensors and have it complete various tasks on its own. This is not remote-control robotics! The various sensors including, touch sound, sight and hearing will

enable you to build an interactive robot capable of completing tasks entirely by itself.

SCIENCE 122 (ADVANCED)

Prerequisite: Chemistry and Physics 11

Co-requisites: Chemistry and Physics 12

This course, which is the completion of topics from Chemistry 11 & 12 and Physics 11 & 12, will include study of magnetism, electromagnetism, atomic structure, quantum mechanics, nuclear physics, redox reactions and electrochemistry. This course is recommended for students contemplating university entrance into Science, Engineering, Forestry, Nursing, or other related fields.

SOCIOLOGY 120

Have you ever wondered why humans behave the way they do? What shapes their attitudes, behaviors, beliefs, and values? Sociology is the study of society (there is a comma to remove here) and seeks to understand why humans behave the way they do when they are in groups. In this class you will learn to critically examine, and better understand your own beliefs about the social world. In this class we will be examine topics such as: culture, race, crime, gender, social structure, social reform, religion, family, media and deviance.

SPANISH 120

This course introduces the Spanish language and culture by developing listening, speaking, reading, and writing skills. Each thematic unit consists of new vocabulary and grammar concepts, reading and listening comprehension activities, speaking, and writing activities, multimedia cultural presentations, and interactive activities to reinforce language acquisition. There is a strong emphasis on providing context and conversational examples for each language concept. Students should expect to be actively engaged in their own language learning, become familiar with common vocabulary terms and phrases, participate in simple conversations, and respond appropriately to basic conversational prompts

TUNE UP AND EMISSIONS 120

Not offered in 2022-23; Available 23-24

This advanced automotive course includes the study of automobile fuel and emission systems. Students will study the component functions and service procedures of modern fuel injection and emission systems. This course would be of interest to students entering the automotive, aircraft or marine service industries. ***Internal Combustion Engines 110 must also be chosen.***

VISUAL ARTS 110

Recommended Prerequisite: Visual Arts 10

The student is given some opportunities to work independently and to explore in greater depth, materials and concepts touched on in Grade 10 Visual Arts. A look at several artists from Art History creates a background for various projects. This course requires students to have painting and drawing materials.

Lab fee: \$5.

VISUAL ARTS 120

Prerequisite: Visual Arts 110

Visual Arts 120 is designed for students who wish to pursue art related interests or careers. Students will review skills and concepts previously learned in grade 11, and apply them to select media with the goal of creating interesting and technically advanced art. A look at several artists from Art History creates a background for various projects. Students will also critique aspects of their creative process and product.

Lab fee: \$5.00.

WELDING/METALS FABRICATION 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.

Lab Fee: \$50.00

WELDING/METALS FABRICATION 120

This course requires Metal Fabrication / Welding 110 as a pre-requisite or a blocked co-requisite with the same group of students. Metal Fabrication / Welding 120 introduces students to advanced skills and practices, building upon the theory and practical skills obtained in Metal Fabrication / Welding 110. This advanced course encapsulates and reinforces theory in Math, SMAW, GMAW, PAW, OFC, all of which leads to a capstone project. Students will learn valuable safety procedures, tool skills and engage with the NB global competencies. To successfully achieve the goals, set forth by this curriculum, class size is limited to a recommended maximum of twenty students. It must be noted that the class size may be further limited based on the physical space available to offer a safe working environment for students.

Lab fee: \$50

WELLNESS THROUGH PHYSICAL EDUCATION 110

This course is designed to promote healthy active living for life. It is intended to encourage the broad-based exploration of non-traditional approaches to fitness and wellness such as yoga, zumba, personal training, snow shoeing, dance, boxing, hiking, etc. This is an activity-based course that requires students to be physically active. Students that enroll in this course are expected to be prepared for physical activity by wearing proper clothing and taking part in all planned activities. Running is an essential portion of the course where students train and work up to completing an 8km run. This course studies holistic wellness and requires a wellness action plan within the community that takes the place of a written exam.

Course fee: \$50.00

WORLD ISSUES 120

This course takes a close look at the current state of the world and wrestles with major issues to help students work towards positive change. Students will look at the challenges of building a sustainable and fair future around the globe. The focus will be on current events that help understand these challenges. The course provides

for student choice within the themes of ‘humanity’, ‘interdependence’, and ‘geopolitics’.

WRITING 110

Do you enjoy writing poetry? Have you ever thought you might have a great idea that you could turn into a best-seller? Writing 110 is an elective that could help you get started on the path toward achieving your writing goals. It is designed for students who want to find an outlet for their literary talents. The course focuses on the writing process and consists of journal writing, and other forms of narrative writing, as well as expository and persuasive writing. Students will share their work with peers, as well as conference with the teacher. Within this course structure, opportunity exists for creative, individual expression. Students will maintain a portfolio of their published pieces.

LOCAL OPTIONS

These courses have been developed by LHHS Departments and have been approved by the Department of Education to provide additional course selection opportunities for our students. Students may take up to two (2) courses to meet the graduation requirement of seventeen (18) credits.

AVIATION MAINTENANCE 110

Aviation Maintenance is an excellent introductory course to the many aspects of the aviation industry from piloting to fixing. This course focuses on practical skills that are transferable into most any trade. Skills such as rigging, metal work, piston, and turbine engine maintenance as well as aircraft specific practices will be taught and tested with training aids. A significant amount of time will be spent in the shop, but classroom/online time will be required for areas such as Airworthiness and Maintenance Management. Should you choose to take Aviation Maintenance 110, this course will serve as a solid basis to enter the industry of aviation maintenance or manufacturing programs.

INDIGENOUS WABANAKI ART 110

This is an introductory art course open to all students that introduces themes reflective of Native culture. Students will explore hands-on crafts such as bead work, paper-maché (mask/puppet) and mural creation

INTRODUCTION TO DEBATE 110

The most common activity in class will be prepared debates. Students will each take part in several debates and these will involve a number of different formats. They will be required to do research and develop logical arguments. Students are expected to keep track of all arguments and responses. Some debates will be recorded and viewed later with the students for a more detailed analysis and critique. Students will also prepare and present a variety of other types of speeches including persuasive, after-dinner, and congratulatory speeches, as well as interpretive readings. Students will learn structure of arguments and how to use informal logic both to develop and attack arguments. These lessons will be reinforced by practice through both oral and written arguments drawn from class debates, the media, the Internet and everyday life.

INTRODUCTORY WOLASTOQEY 110

The primary objective of this course is to introduce students to the Wolastoqey language, their culture and traditions. Students will develop the ability to communicate orally in the Wolastoqey language. Students taking this course will learn to introduce themselves, have small conversations, and speak basic phrases while learning about Wolastoqey culture and oral traditions.

LITERACY THROUGH GRAPHIC NOVELS 110

Graphic novels have become a mainstream form of writing. This course will explore the genre and what makes it so unique. You will learn various writing techniques specific to graphic novels, literacy skills unique to graphic novels, as well as artistic ways to convey a message. Throughout the term, you will read a variety of graphic novels and explore their significance. You will also be required to write/illustrate your own graphic novel. While art skills are not a requirement, an interest in drawing/art will help. If you are a fan of the genre or are interested in learning more about graphic novels, this course is for you.

MARKETING 120

This course introduces students to marketing function and activities that occur within the Canadian marketplace and how it affects us as consumers. Students will also be able to explore and be exposed to potential career opportunities. Areas of focus include: evolution of marketing, the marketing mix, the Canadian Code of Advertising standards, market research, as well as advertising techniques and strategies. Suggested prerequisite: English 112

PSYCHOLOGY 110

Why do you think and act the way you do? Psychology is a social science that seeks to answer questions about us all - how we think, feel and act. In this introductory course, you will learn to think critically as you explore human nature. Topics covered: Groundbreakers and History, Research, Nature/Nurture, the Brain, Sleep and Dreams and Psychological Disorders. This is a great course for anyone interested in pursuing a psychology career or for those who are interested in what makes us tick! *There is sensitive content and discussion in this course.*

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Courses with Required and Recommended Prerequisites and/or Application Requirements

Course	Recommended and Required Prerequisite/Application
Biology 111	Science 10
Biology 121	science 10
Calculus 120	Pre-Calculus 12A & 12B
Canadian History 122	History 111/112 or 113 OR FI History 112
Career Exploration 110	Enrolment is limited; not all students will be selected
Chemistry 111	Science, GMF10; Recommended Co-requisite -Foundations110
Chemistry 112	Science, GMF 10; Recommended Co-requisite -Foundations 110
Chemistry 121	Chemistry 111, Recommended pre-requisite; Foundations 110
Chemistry 122	Chemistry 112/111
Cooperative Education 120	Enrolment is limited; not all students will be selected
Culinary Technology 120	Enrolment is limited; Culinary 110 Required
Early Childhood Coop (Intro to)	Enrolment is limited; not all students will be selected
English 111	English 10 (recommended mark 85%)
English 112	English 10
English 113	English 10
English 121	English 111
English 122	English 112
English 123	English 113
FI Language Arts 120	FI Language Arts 110
FI Foundations of Math 110	FI NRF & FI GMF 10
FI Pre-Calculus 110	FI Foundations of Mathematics 110
Financial & Workplace Math 110	Geometry, Measurement and Finance 10
Foundations of Math 110	NRF 10 & GMF10
Foundations of Math 120	Foundations of Mathematics 110
Long Term Care Coop	Enrolment is limited; not all students will be selected
NBCC Foundations 120	Either grade 11 math credit (Foundations of Financial)
Music 112 (Choral)	Recommended pre-requisite; Music 10
Music 112 (Guitar)	Recommended pre-requisite; Music 10
Music 112 (Instrumental)	Recommended pre-requisite; Music 10
Music 112 (Keyboarding)	Recommended pre-requisite; Music 10
Music 122	Music 112
Outdoor Pursuits 110	Recommended pre-requisite; Health & Physical Education 10 Enrolment is limited; not all students will be selected
Personal Interest 1 & 2	Application required
Post Intensive French 122	Post Intensive French 112
Physical Education Leadership 120	Recommended pre-requisite; Health & Physical Education 10 Enrolment is limited; not all students will be selected
Physics 111	Science, GMF 10; Recommended Co-requisite-Foundations 110
Physics 112	Science, GMF 10; Recommended Co-requisite-Foundations 110
Physics 121	Physics 111 Recommend Pre-requisite; Pre-Calculus 110
Physics 122	Physics 112/111; Recommended Pre-requisite; Pre-Calculus 110
Pre-Calculus 110	Foundations 110
Pre-Calculus 12A	Pre-Calculus 110
Pre-Calculus 12B	Pre-Calculus 12A
Reading Tutor 120	English 111/112; Information Sheet
Science 122 (Advanced)	Chemistry & Physics 112/111
Visual Arts 110	Recommended pre-requisite; Visual Arts 10
Visual Arts 120	Recommended pre-requisite; Visual Arts 110
Wellness through Physical Education 110	Recommended pre-requisite; Health and PE 10 Enrolment is limited; not all students will be selected
World Issues 120	History 111, 112, or 113; or F.I. Modern History

Leo Hayes High School
GRADE 11 & 12 COURSE SELECTION PLANNING FORM 2022-23

Name: _____

Homeroom: _____

Planning: Check off the Grade 10 courses above that you have successfully completed and select any you haven't completed yet first. Then complete the Grade 11 and/or Grade 12 chart below to ensure graduation requirements will be met.

- English Lang. Arts Lit. Text 10
- English Lang. Ats Info Text 10
- Social Studies 10
- Science 10
- French 10 or Wolastoqey 10
- PDCP
- Geometry, Measurement & Finance
- * Numbers Relations & Functions 10 **OR**
- An alternate grade 11 elective (see below)

- Any two of the following:**
- Broad Based Technology 10
 - Intro to Applied Tech. 110
 - Phys. Ed. 10
 - Art 10
 - Music 10

- English Language Proficiency Assessment

***Please note: Students who took Health and PE 10 with Wellness 110 (Hockey Enrichment) only need one grade 10 elective.**

*NRF is no longer a required course for grade 10. Students may choose a course from the following list: Creative Arts 110, Dramatic Arts 110, Entrepreneurship 110, FILA (French Immersion Language Arts) 110 (Early or Late), Hospitality and Tourism 110, Human Physiology 110, PIF (Post Intensive French) 110, Writing 110

*Please refer to page 5 and 6 of the course guide for more information on math requirements.

Students Entering Grade 11

Please refer to page 6 of the course guide for course requirements.

1. Eng. Lang. Arts Lit Text 11_____
2. Eng. Lang. Arts Info Text 11_____
3. Financial and Workplace 110 **OR**
 Foundations of Math 110
 FI Foundations of Math 110
4. Modern History 111 / 112 OR 113
 FI Modern History 112
5. Science _____
6. Fine Arts/ Life Role_____

7. _____
 8. _____
 9. _____
 10. _____
- Chose 3 alternate courses and list them in order of preference:
 Alternate #1: _____
 Alternate #2: _____
 Alternate #3: _____

Students entering Grade 12

Please refer to page 6 of the course guide for course requirements

1. English 12_____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____

10. _____
- Chose 3 alternate courses and list them in order of preference:
 Alternate #1: _____
 Alternate #2: _____
 Alternate #3: _____

^^You need two of the following Math courses to graduate (NRF 10, Foundations 110, Fin and Workplace 110, NBCC Skilled Trades Math 1208)

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Science Options

- Biology
- Chemistry
- Physics
- Human Physiology
- Introduction to Electronics
- Introduction to Environmental Science
- Automotive Electrical Systems
- Micro Electronics
- Physical Geography
- Robotics and automated Technology

***Automotive Electrical Systems 120** – if used as a science credit, students must select a different Fine Arts/Life Role credit.

Fine Arts and Life Role Options

- Automotive Electrical Systems 120
- Career Exploration 110
- Cooperative Education 120
- Creative Arts 110
- Culinary Technology 110/120
- Dramatic arts 110/120
- Early Childhood Coop 120
- Electrical Wiring 110
- Entrepreneurship 110
- FI Family Relations 120
- Framing and Sheathing 110
- Graphic art and Design 110
- Growth, Goals and Grit 120
- Housing and Interior Design 120
- Individual Family Dynamics 120
- Internal Combustion Engines 110
- Introduction to Applied Technology 110
- Long Term Care Coop 120
- Metals Fabrication 110
- Metals Processing 110
- Mill and Cabinet Work 110
- Music 112
- Music 122
- Nutrition for Healthy Living 120
- Outdoor Education (Pursuits) 110
- Physical Education Leadership 120
- Power Train and Chassis 110
- Reading Tutor 120
- Residential Finish 120
- Tune-up and Emissions 120
- Visual Arts 110/120
- Wellness through Physical Education 110