

# **Leo Hayes Course Selection Guide**

**Grades 10-12**



**2026-2027**

# NEW BRUNSWICK ADMISSION REQUIREMENTS

<b>FR SJ</b> <b>BACHELOR OF ARTS</b>	<b>FR</b> <b>BACHELOR OF APPLIED ARTS</b>	<b>FR</b> <b>CONCURRENT BACHELOR OF ARTS/COMPUTER SCIENCE</b>	<b>FR</b> <b>CONCURRENT BACHELOR OF ARTS/SCIENCE</b>	<b>FR</b> <b>BACHELOR OF ARTS AND SCIENCE</b>
English 122 (min. grade of 60%) Four electives – Group 1 One elective – Group 1, 2 or 3 Minimum admission average 65%	English 122 (min. grade of 60%) Four electives – Group 1 One elective – Group 1, 2 or 3 Minimum admission average 65%	English 122 (min. grade of 60%) Pre-Calculus A 120 (min. grade of 65%) Pre-Calculus B 120 (min. grade of 65%) One of Biology 122, Chemistry 122 or Physics 122 (min. grade of 65%) One elective – Group 1 (min. grade of 60%) One elective – Group 1, 2, 3 or 4 (min. grade of 60%) Minimum admission average 75%	English 122 Pre-Calculus A 120 Pre-Calculus B 120 Chemistry 122 and one of Biology 122, Physics 122 or another provincially approved science One elective – Group 1 or 2 Minimum admission average 75% (The average of the marks in senior Mathematics, Chemistry and the best other science course must be at least 75%)	English 122 Pre-Calculus A 120 Pre-Calculus B 120 Chemistry 122 and one of Biology 122, Physics 122 or another provincially approved science One elective – Group 1 or 2 Minimum admission average 75% (The average of the marks in senior Mathematics, Chemistry and the best other science course must be at least 75%)
<b>FR SJ</b> <b>BACHELOR OF BUSINESS ADMINISTRATION</b>	<b>FR</b> <b>BACHELOR OF COMPUTER SCIENCE</b>	<b>SJ</b> <b>BACHELOR OF SCIENCE IN COMPUTER SCIENCE</b>	<b>FR</b> <b>CONCURRENT BACHELOR OF COMPUTER SCIENCE/SCIENCE</b>	<b>FR SJ</b> <b>BACHELOR OF SCIENCE IN ENGINEERING</b>
English 122 (min. grade of 60%) Pre-Calculus A 120 (min. grade of 60%) Pre-Calculus B 120 (min. grade of 60%) Two electives – Group 1 (min. grade of 60%) One elective – Group 1, 2 or 3 (min. grade of 60%) Minimum admission average 75% <b>See additional notes regarding eligibility with alternative math requirements.</b>	English 122 (min. grade of 60%) Pre-Calculus A 120 (min. grade of 65%) Pre-Calculus B 120 (min. grade of 65%) One of Biology 122, Chemistry 122 or Physics 122 (min. grade of 65%) One elective – Group 1 (min. grade of 60%) One elective – Group 1, 2 or 4 (min. grade of 60%) Minimum admission average 75%	English 122 (min. grade of 60%) Pre-Calculus A 120 (min. grade of 65%) Pre-Calculus B 120 (min. grade of 65%) One of Biology 122, Chemistry 122 or Physics 122 (min. grade of 65%) One elective – Group 1 (min. grade of 60%) One elective – Group 1, 2 or 4 (min. grade of 60%) Minimum admission average 75%	English 122 Pre-Calculus A 120 (min. grade of 60%) Pre-Calculus B 120 (min. grade of 60%) Chemistry 122 and one of Biology 122, Physics 122 or another provincially approved science Group 1, 2 or 4 (min. grade of 60%) Minimum admission average 75% (The average of the marks in senior Mathematics, Chemistry and the best other science course must be at least 75%)	English 122 (min. grade of 70%) Pre-Calculus A 120 (min. grade of 70%) Pre-Calculus B 120 (min. grade of 70%) Chemistry 122 (min. grade of 70%) Physics 122 (min. grade of 70%) One elective – Group 1, 2 or 4 (min. grade of 60%) Minimum admission average 75% Applicants with only one of Chemistry or Physics will be considered for admission into an entrance program
<b>FR</b> <b>BACHELOR OF SCIENCE IN ENVIRONMENTAL MANAGEMENT</b>	<b>FR</b> <b>BACHELOR OF SCIENCE IN FORESTRY</b>	<b>FR</b> <b>BACHELOR OF GEOMATICS</b>	<b>SJ</b> <b>BACHELOR OF HEALTH</b>	<b>SJ</b> <b>BACHELOR OF HEALTH SCIENCES</b>
English 122 Foundations of Math 120 or Pre-Calculus 110 (min. grade of 70%) Chemistry 122 Biology 122 or Physics 122 One elective – Group 1 or 2 (min. grade of 60%) Minimum admission average 70%	English 122 Foundations of Math 120 or Pre-Calculus 110 (min. grade of 70%) Chemistry 122 Biology 122 or Physics 122 One elective – Group 1 or 2 (min. grade of 60%) Minimum admission average 70%	English 122 (min. grade of 70%) Pre-Calculus A 120 (min. grade of 70%) Pre-Calculus B 120 (min. grade of 70%) Two electives – Group 1 (Physics 122 recommended) (min. grade of 70%) One elective – Group 1 (min. grade 60%) Minimum admission average 75%	English 122 (min. grade of 60%) Pre-Calculus 110 or Foundations of Mathematics 120 One of Biology 122, Chemistry 122 or Physics 122 One elective – Group 1 or 2 One elective – Group 1, 2 or 3 Minimum admission average 75%	English 122 (min. grade of 60%) Pre-Calculus A 120 Pre-Calculus B 120 Chemistry 122 Physics 122 One elective – Group 1 or 2 Minimum admission average 75% (The average of the marks in senior Mathematics, Chemistry and the best other science course must be at least 75%)
<b>FR</b> <b>BACHELOR OF SCIENCE IN KINESIOLOGY</b>	<b>FR</b> <b>BACHELOR OF MEDICAL LABORATORY SCIENCE</b>	<b>FR SJ</b> <b>BACHELOR OF NURSING</b>	<b>FR</b> <b>BACHELOR OF PHILOSOPHY IN INTERDISCIPLINARY LEADERSHIP</b>	<b>FR</b> <b>BACHELOR OF RECREATION AND SPORTS STUDIES</b>
English 122 (min. grade of 60%) Pre-Calculus A 120 Pre-Calculus B 120 Two of Biology 122, Chemistry 122 or Physics 122 One elective – Group 1, 2, 3 or 5 Minimum admission average 75%	High school students must complete one year of general science courses prior to being assessed for the BMLS program. Interested students should apply to the Bachelor of Science program.	English 122 (min. grade of 70%) Pre-Calculus 110 or Foundations of Mathematics 120 (min. grade of 70%) Biology 122 (min. grade of 70%) Chemistry 122 (min. grade of 70%) Two electives – Group 1 Minimum admission average 75% All applicants to nursing programs will be required to write the Casper Test. Admission decisions will be based on the applicant's admission average (60% weight) and the Casper score (40% weight).	English 122 (min. grade of 75%) Four electives – Group 1 One elective – Group 1, 2 or 3 Minimum admission average 75%  The Bachelor of Philosophy in Interdisciplinary Leadership is offered through the Faculty of Leadership Studies (Renaissance College)	English 122 (min. grade of 60%) Foundations of Mathematics 120 or Pre-calculus 110 One of Biology 122, Chemistry 122 or Physics 122 Two electives – Group 1 One elective – Group 1, 2, 3 or 5 Minimum admission average 75%
<b>FR SJ</b> <b>BACHELOR OF SCIENCE</b>	<b>FR SJ</b> <b>BACHELOR OF SCIENCE IN SOFTWARE ENGINEERING</b>			
English 122 Pre-Calculus A 120 Pre-Calculus B 120 Chemistry 122 and one of Biology 122, Physics 122 or another provincially approved science One elective – Group 1 or 2 Minimum admission average 75% (The average of the marks in senior Mathematics, Chemistry and the best other science course must be at least 75%)	English 122 (min. grade of 70%) Pre-Calculus A 120 (min. grade of 70%) Pre-Calculus B 120 (min. grade of 70%) Chemistry 122 (min. grade of 70%) Physics 122 (min. grade of 70%) One elective – Group 1, 2 or 4 (min. grade of 60%) Minimum admission average 75% Applicants with only one of Chemistry or Physics will be considered for admission into an entrance program			

**QUESTIONS? CONTACT US AT  
CHOOSEUNB@UNB.CA**

## ELECTIVES

### GROUP 1

Agriculture 110  
Anglais 22411  
Anglais langue seconde 25411  
AP Research & AP Seminar  
Astronomie 55411  
Biology 53411  
Biology 53411  
Calculus 120  
Canadian Literature 120  
Chemistry 122  
Chimie 52411  
Co-op Education 120  
Computer Science 110 or 120  
Droit 86411  
Economics 120  
Économie 44411  
Éducation coopérative 88411  
Environmental Science 122  
Environmental Geoscience 110  
Espagnol 23411  
Essential Skills Pathway Program (Capstone)  
FILA 120  
Forestry 110  
Foundations of Mathematics 120  
(for admission to Arts and Applied Arts only)  
Français 10421  
French 122  
Géographie du monde 41411  
Geography 110 or 120  
Geology 120  
Histoire 42311 or 42411  
History 112 or 122  
Human Physiology 110

Human Anatomy 120  
Indigenous Studies 120  
Informatique et Société 63311A  
Institutions politiques, économiques et juridiques 43411  
Introduction à la foresterie 02411  
Introduction to Environmental Science 120  
Introductory Mi'kmaw Language 110  
Introductory Wolastoquey Latuwewakon 110  
Journalism 120  
Latin 120  
Law 120  
Mandarin 120  
Marine Biology 120  
Mathématiques 30411C or 30421C  
Mathématiques 20231N  
Oceanography 120  
People Wbanakie 48411A  
Physics 122  
Physique 51411/51421  
Political Science 120  
Popular Music 120  
Pre-Calculus 110  
(for admission to Arts and Applied Arts only)  
Pre-Calculus A 120 & B 120  
Psychology 120  
Reading Tutor 120  
Science 122  
Science de l'environnement 54411  
Sociology 120  
Spanish 120  
Statistique 31411  
Suits 120  
World Issues 120  
Writing 110

### GROUP 2

Accounting 120  
Accounting 120 (computerized)  
Business Organization & Management 120  
Comptabilité 84411  
Entrepreneuriat 83411  
Indigenous Studies 120  
Introduction to Accounting 120  
Marketing 122

### GROUP 3

Art 110 or 120  
Art 91411  
Communications 120  
(Media Studies 120)  
Étude des médias 11411  
FI Techniques in Communication 120  
FI Techniques in Fine Arts 110  
Music 111, 112 or Music 122  
Musique 92411  
Technologie du design 02411  
Theatre Arts 120 (Drama 120)  
Théâtre 93411

### GROUP 4

Computer Aided Drafting 120  
Cybersecurity 120  
Dessin industriel 67311  
Électricité 61311  
Introduction to Electronics 110  
Introduction à la programmation 02411  
Micro Electronics 120  
Robotics & Technology 120

### GROUP 5

Éd. physique 71411  
Exercise Science 120  
Health & Physical Education 120  
Introduction aux soins de santé 57411  
Introduction to Kinesiology 120  
Leadership 71421  
Nutrition for Healthy Living 120

### ADDITIONAL NOTES

Courses taken at a higher or advanced level (including IB or AP courses) will be accepted for admission purposes and may be eligible for bonus points towards applicants' scholarship average.

UNB Saint John Bachelor of Business Administration applicants who do not meet the pre-calculus admission requirements may be considered for admission if they have grade 12 Foundations of Math (or equivalent) with a grade of 70% or higher.

**SCAN THIS CODE TO VIEW  
REQUIREMENTS ONLINE**



TABLE OF CONTENTS

<b>Introduction and General Information.....</b>	<b>2</b>
<b>Special Programs</b>	
<b>Career and Transition Programs.....</b>	<b>3</b>
<b>Challenge for Credit Opportunities.....</b>	<b>3</b>
<b>Fine Arts Certificate Program.....</b>	<b>3</b>
<b>French Immersion Program.....</b>	<b>4</b>
<b>Trades Course Options at FHS.....</b>	<b>4</b>
<b>Mathematics Pathways .....</b>	<b>5</b>
<b>New Brunswick High School Graduation Requirements .....</b>	<b>6</b>
<b>High School Graduation Planning Sheet.....</b>	<b>7</b>
<b>Courses Listed by Clusters .....</b>	<b>8-9</b>
<b>Course Descriptions by Cluster .....</b>	<b>10-31</b>
<b>Language Arts &amp; Languages .....</b>	<b>10-13</b>
<b>Humanities.....</b>	<b>14-15</b>
<b>Mathematics.....</b>	<b>16-17</b>
<b>Sciences.....</b>	<b>18- 21</b>
<b>Personalized Wellbeing - Creative Arts .....</b>	<b>22-24</b>
<b>Personalized Wellbeing - Wellness &amp; Physical Education .....</b>	<b>25-27</b>
<b>Personalized Wellbeing - Career Connected .....</b>	<b>28-32</b>
<b>Courses with Pre-requisites and/or Applications.....</b>	<b>34</b>
<b>Index of Courses Alphabetically.....</b>	<b>35</b>

# 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 2026 and staffing allocations ultimately determine the availability of sections/courses. **Administration and Guidance reserve 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 apart from adjusting for course failures or changes in post-secondary paths and requirements.**

## Introduction

This guide is designed to help you choose courses that will meet the New Brunswick High School Graduation requirements.

Teachers and school counselors will provide you with direction and information and will assist you with the course planning and selection process. Students should take every opportunity to discuss course options and post-secondary and career plans with their parents, guardians, teachers and school 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, School 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: English 123

**Level 1 courses** are enriched university preparatory.

ex: English 111, Physics 121

**Some electives are open to grades 10, 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 34 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 20<sup>th</sup> to the guidance department.**

### 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 Career Pathway Mentorship 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.**

\*\*New career specific programs are being offered now: Long-term Care Coop, Introduction to Early Childhood Coop, Horizon Coops and the Reserves Coop. See your school counselor for more information.

#### **Challenge for Credit/ Fast Track Options**

Students who have completed one of the following may qualify to earn up to **8 credit hours** credits toward graduation. Please see your **School Counsellor** for more details.

- 101/Fundamentals level Coaching Certificate (Competition or Instruction Stream)
- Cadet Level 4
- Duke of Edinburgh's Award Silver or Gold level
- High School Summer French Program at l'Université de Moncton
- Imagine NB, Girl Scouts Trailblazer Silver Award
- Immersion program of Université Sainte-Anne
- Junior Achievement "Be Entrepreneurial" Program Certificate
- Les Jeunes Chanteurs d'Acadie
- National Lifesaving Society Certificate (NLS)
- Scout Exploration Activity Award
- Shad Canada
- Université de Moncton - Explore Jeunesse Program
- Université de Moncton Junior-High School Program
- YMCA Summer Work Student Exchange (SWSE)
- YMCA Community Action Network (YCAN)
- YMCA Youth Exchanges Canada program (travel or virtual)

#### **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.

## French Immersion Program

### **CERTIFICATE OF IMMERSION**

This certificate is issued by Anglophone School District West and is offered to all students who have all 5 FI courses in Grade 9 and a total combination of 10 more FI courses over Grades 10, 11 and 12.

### **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 who are enrolled in a grade 12 French course in grade 12 will automatically be eligible for the proficiency test.

\*Other students interested in taking the OPI who do not meet the above criteria should contact their school counselor. They may qualify under "special circumstances."

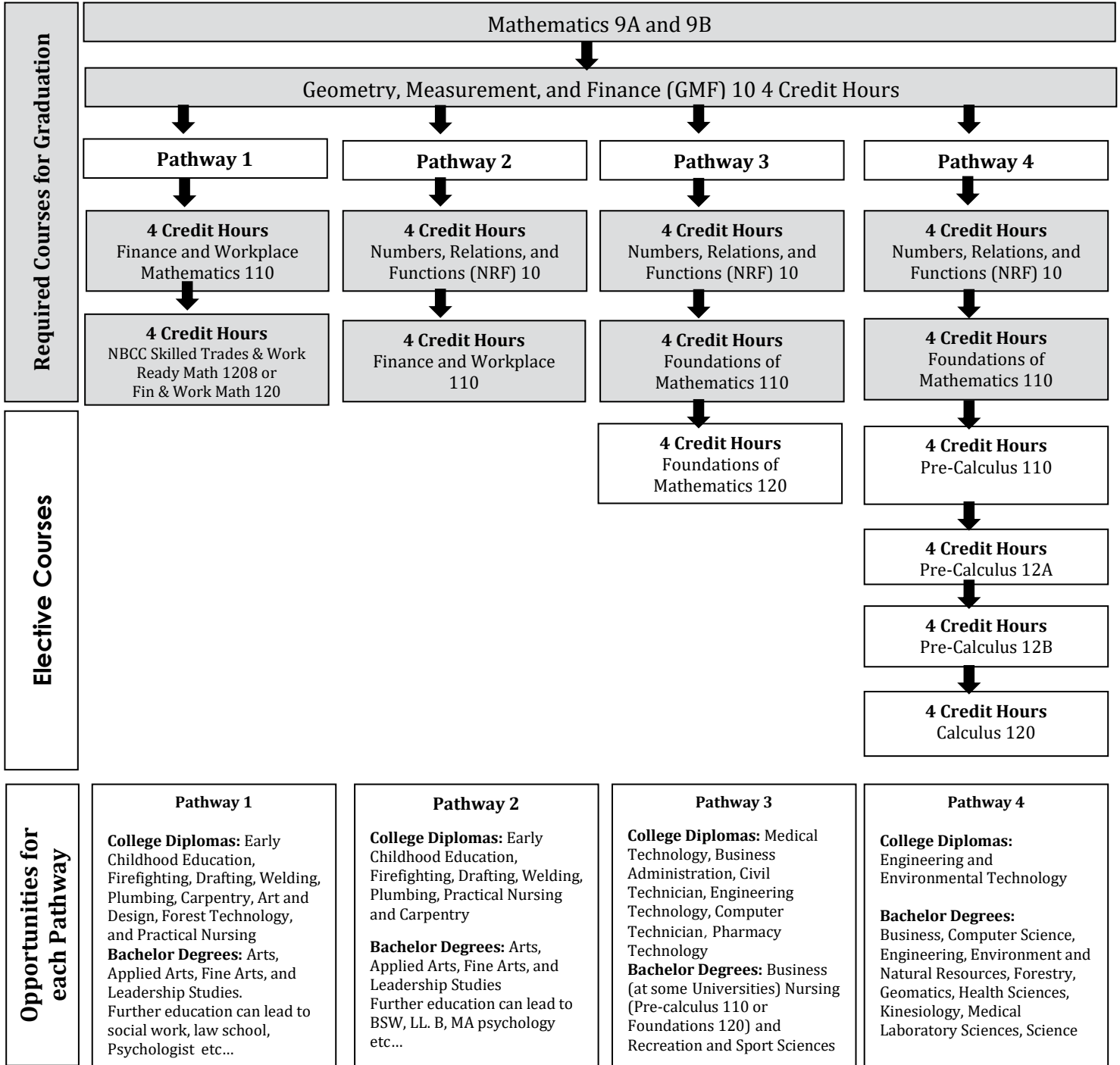
### **Trades Course Option at FHS**

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. Please see **page 9** for a list of the courses offered at FHS each semester.



## 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.



**It is important to confirm entrance requirements for the specific program(s) in which you are interested. Requirements may vary between institutions and programs of study.**

## New Brunswick High School Graduation Requirements

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

- A minimum of 100 Credit Hours.
  - Each course passed counts as 4 Credit Hours.
  - Complete compulsory credit-hours in each cluster in grades 10 through 12.
  - Pass the English Language Proficiency Assessment.
- \*Some courses meet requirements in more than one cluster but cannot be counted for more than one cluster.

**Courses that are required for graduation and therefore must be passed by all students are:**

- English Language Arts 10 Foundational
- English Language Arts 11 Foundational
- English Language Arts 12
- Post Intensive French 10 **OR** FI Language Arts 10 **OR** Wolastoqey 10
- Civics **OR** FI Civics
- Geometry Measurement, and Finance 10 **OR** FI Geometry, Measurement and Finance 10

\*\*\* Students in French Immersion require 40 Credit Hours in French in grades 10 - 12 \*\*\*



**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 9 Wellness 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 school 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.

# Graduation Requirements

**Core Cluster Compulsories: 80 Credit Hours (each course counts as 4 credit hours)**

Name: \_\_\_\_\_

<b>Language Arts and Languages</b>			Requirements Met <input type="checkbox"/>
Required Credit Hours: 24		Credit Hours Earned:	
Year	Course	CH	
	ELA Foundational 10	4	
	ELA Extended 10*	4	
	PIF / FILA 10/Wolastoqey 10	4	
	ELA Foundational 11	4	
	ELA 121/122/123	4	
<b>Humanities</b>			Requirements Met <input type="checkbox"/>
Required Credit Hours: 8		Credit Hours Earned:	
Year	Course	CH	
	Civics (English or FI)	4	
<b>Mathematics</b>			Requirements Met <input type="checkbox"/>
Required Credit Hours: 12		Credit Hours Earned:	
Year	Course	CH	
	GMF 10 (English or FI)	4	
<b>Sciences</b>			Requirements Met <input type="checkbox"/>
Required Credit Hours: 8		Credit Hours Earned:	
Year	Course	CH	
	Science for Sustainable Societies 10 (Eng or FI)*	4	
<b>PW (Creative Arts)</b>			Requirements Met <input type="checkbox"/>
Required Credit Hours: 4		Credit Hours Earned:	
Year	Course	CH	
<b>PW (Wellness &amp; Phys. Ed.)</b>			Requirements Met <input type="checkbox"/>
Required Credit Hours: 4		Credit Hours Earned:	
Year	Course	CH	

<b>PW (Career Connected)</b>			Requirements Met <input type="checkbox"/>
Required Credit Hours: 4		Credit Hours Earned:	
Year	Course	CH	
<b>PW (Additional Electives from Creative Arts, Wellness &amp; PE, or Career Connected)</b>			Requirements Met <input type="checkbox"/>
Required Credit Hours: 8		Credit Hours Earned:	
Year	Course	CH	
<b>Electives from any previous cluster</b>			Requirements Met <input type="checkbox"/>
Required Credit Hours: 8		Credit Hours Earned:	
Year	Course	CH	

## Flexible Credit Hours

<b>Flexible Credit Options: (Any)</b>			Requirements Met <input type="checkbox"/>
Required Credit Hours: 20		Credit Hours Earned:	
Year	Course	CH	

## Additional Credits:

		Credit Hours Earned:	
Year	Course	CH	

\*Indicates courses that are strongly recommended

**Students may apply to graduate with 100 credit hours but may achieve as many as 120.**

**GRADE 10-12 COURSES BY CLUSTERS**

<b>LANGUAGE ARTS &amp; LANGUAGES</b>	<b>MATHEMATICS</b>
English Language Arts 10 Extended	Calculus 120
English Language Arts 10 Foundational	Financial & Workplace Mathematics 110
English Language Arts 111 Extended	Financial & Workplace Mathematics 120
English Language Arts 111 Foundational	Foundations of Mathematics 110 <b>OR</b>
English Language Arts 112 Extended	FSL Foundations of Mathematics 110
English Language Arts 112 Foundational	Foundations of Mathematics 120
English Language Arts 113 Extended	Geometry Measurement & Finance 10 <b>OR</b>
English Language Arts 113 Foundational	FSL Geometry Measurement & Finance 10
English Language Arts 121	NBCC Skilled Trades & Work Ready Math 120
English Language Arts 122	Numbers Relations & Functions 10 <b>OR</b>
English Language Arts 123	FSL Numbers Relations & Functions 10
FI Language Arts 10 (Grade 1 or 6 entry)	Pre-Calculus 110 <b>OR</b> FSL Pre-Calculus 110
FI Language Arts 110 (Grade 3 or 6 entry)	Pre-Calculus A 120
FI Language Arts 120 (Early or Late)	Pre-calculus B 120
FSL Techniques de Communication 110	
FSL Techniques de Communication 120	
Graphic Novels 120	<b>SCIENCE</b>
Intermediate Wolostoquey 110	Auto Electrical Systems 120*
Introductory Wolostoquey Latuwewakon 110	Biology 111
Media Studies 120*	Biology 112 <b>OR</b> FSL Biology 112
Post Intensive French 10	Biology 121
Post Intensive French 110	Biology 122
Post Intensive French 120	Chemistry 111
Spanish 120	Chemistry 112
Writing 110	Chemistry 121
	Chemistry 122
<b>HUMANITIES</b>	Environmental Geoscience 110
Ancient and Medieval History 112	Environmental Science 120
Canadian History 122 <b>OR</b>	Human Physiology 110
FSL Canadian History 122	Introduction to Electronics 110
Civics <b>OR</b> FSL Civics	Physics 111
Introduction to Debate 110**	Physics 112
Law 120**	Physics 121
Modern History 111, 112 and 113 <b>OR</b>	Physics 122
FSL Modern History 112	Science for Sustainable Societies 10 <b>OR</b>
Political Science 120**	FSL Science for Sustainable Societies 10
Sociology 120**	
Wabanaki Studies 120	
World Issues 120	
**These courses do not count toward the 8 core humanities credit hours but they can be taken as extra credit hours that count toward graduation as well as entrance courses at some universities.	



## **ENGLISH LANGUAGE ARTS 10 EXTENDED**

In this course you will practice your English skills in reading, writing and speaking through thematic units.

**Key Themes:** In 10B, you will have the chance to explore English using many different lenses and through multiple themes, including Culture, Identity, Good and Evil, and more.

**What will I do?** You will be expected to read, write, and speak every day. You will be expected to choose a personal novel and respond to material and explore skills in a writer's journal, as well as engage in small and full class discussions and presentations.

## **ENGLISH LANG ARTS 10 FOUNDATIONAL**

This is a course to improve your reading, written and communication skills with material you love.

**Key Themes:** In 10A, you will practice and develop key skills like reading, writing and speaking.

**What will I do?** You will learn how to express yourself and show comprehension by responding critically and personally to texts (books, podcasts, plays, and more!); and to hone your craft as a writer by studying and creating various written pieces, such as children's books, spoken word poems, and product reviews.

## **ENGLISH LANGUAGE ARTS 111 EXTENDED**

**Prerequisite:** English 10 (Foundational) with a grade of 85% or above

This advanced level college-preparatory course is tailored to students who crave further enrichment and can meet the challenges of an accelerated pace and broader scope than the university prep course (112).

**Key Themes:** Students will engage in advanced discussions, reading and writing that explore topics like: Power and Corruption; Social Justice; Hope; Censorship and much more!

**What will I do?** You will engage in advanced discussions, critical evaluations, and creative projects, fostering a love for language while also honing your ability to think critically and express yourself with precision. Student independence is required for success in this course.

## **ENGLISH LANG ARTS 111 FOUNDATIONAL**

**Prerequisite:** English 10 (Foundational) with a grade of 85% or above

This advanced level college-preparatory course provides an enriching and structured journey for students seeking a deeper understanding of literacy. Designed for students who can meet the challenges of an accelerated pace and broader scope than the university prep course (112).

**Key Themes:** Students will create and respond to a diverse range of texts centered around developing a

capacity for deep critical thinking, advanced literary analysis, supporting ideas with researched evidence, and expressing opinions confidently in large group discussions.

**What will I do?** You will immerse yourself in an advanced exploration of literature that not only sharpens your essential reading and representation skills but also fosters a love of literature through focused and enriched topics. Student independence is required to succeed in this course.

## **ENGLISH LANG ARTS 112 EXTENDED**

**Prerequisite:** English 10 (Foundational)

English 112 Extended is a university preparatory course that is all about sharpening your reading, writing, and speaking skills while exploring interesting themes that will get you thinking and talking.

**Key Themes:** You will learn about Power and Corruption, Social Justice, Hope, Censorship, and more!

**What will I do?** You will have daily opportunities to read challenging texts, explore and discuss your thoughts, and develop your writer's voice.

## **ENGLISH LANG ARTS 112 FOUNDATIONAL**

**Prerequisite:** English 10 (Foundational)

English 112 Foundational is a university preparatory course in which you'll explore diverse, inspiring texts—stories, music, art and poetry—developing your voice, building essential skills, and gaining a deeper understanding of yourself, others, and the world.

**Key Themes:** You will be exploring diverse perspectives, thinking critically, experimenting with creative expression, applying feedback to grow, connecting deeply with texts, developing your voice as a reader, writer, and speaker.

**What will I do?** You will think critically about what you read, write, watch, listen to so that you may speak to express your thoughts and ideas and refine your interpersonal and communication skills.

## **ENGLISH LANG ARTS 113 EXTENDED**

**Prerequisite:** English 10 Foundational

This course is a dynamic course that combines standard English studies with creative explorations of compelling themes.

**Key Themes:** You'll engage with literature, media, and real-world issues through units on crime and the Youth Criminal Justice Act, survival, visual storytelling, biographies, music and resistance, and podcast production.

**What will I do?** You're expected to participate in discussions, analyze texts and media, and complete creative projects such as podcasts and visual storytelling pieces. This course encourages you to

think critically, express yourself creatively, and connect your learning to meaningful, real-world contexts.

### **ENGLISH LANG ARTS 113 FOUNDATIONAL**

Explore reading, writing, and storytelling in a way that makes sense to you through engaging, interactive activities designed to build your skills.

**Key Themes:** Storytelling, Communication, Creativity, Critical Thinking, and Real-Life Learning.

**What will I do?** Read relatable stories, listen to podcasts, and participate in fun activities while practicing creative and personal writing styles and discussing what you read.

### **ENGLISH LANG ARTS 121**

**Prerequisite:** Eng. 111 Foundational

English 121 is an advanced semester-long university preparatory course —it's for students ready for a challenge. In this course, you'll tackle captivating and thought-provoking texts that push your reading, writing, and thinking skills to the next level.

**Key Themes:** Critical thinking, advanced research, deep analysis, and meaningful conversations about complex texts.

**What will I do?** Immerse yourself in powerful stories, debate complex questions, and craft writing that stands out. Every day, you'll challenge yourself to think differently, ask more profound questions, and get ready for what comes next.

### **ENGLISH LANG ARTS 122**

**Prerequisite:** Eng. 111/112 Foundational

English 122 is a semester-long university preparatory course that develops proficiency in speaking, reading, and writing through diverse texts and tasks, preparing students for academic success beyond high school.

**Key Themes:** Research, analysis, discussion, exploring all types of texts.

**What will I do?** Students will have daily opportunities to read challenging texts, discuss their thoughts, and refine their writing voice.

### **ENGLISH LANG ARTS 123**

**Prerequisite:** Eng. 112/113 Foundational

English 123 helps you build practical reading, writing, and communication skills to prepare for life after high school, whether you're heading into a job or the trades.

**Key Themes:** You'll practice real-world skills like reading different kinds of texts, writing for everyday situations, sharing ideas, and thinking critically, all in a way that works for you.

**What will I do?** You'll need to take part by talking, listening, working with others, reading, writing, and treating everyone with respect.

### **FI LANG ARTS 10 (GRADES 1 OR 6 ENTRY)**

**Prerequisite:** FI Language Arts 9

Engage in Francophone culture while evolving your proficiency level!

**Key Themes:** Conflicts & challenges, Debates and Francophone culture.

**What will I do?** You will participate in class conversations and group discussions while being evaluated in presentations, sharing your ideas, and your ability to analyze texts, videos, and audio materials. Students will write informative and persuasive pieces.

### **FI LANG ARTS 110 (GRADE 3 OR 6 ENTRY)**

**Prerequisite:** FILA 10 (Grade 3 or 6 entry) Continue to develop all your French language skills and cultural knowledge through fiction. Watch or read French-Canadian creations to explore oral, regional & more advanced language samples to find your place in the Francophone world.

**Key Themes:** What influenced the French-Canadian people and shaped their culture and character in the last century. How did the French language survive and evolve in North America.

**What will I do?** Continue to learn Grammar & vocabulary to communicate more efficiently in French. Read a play, perform parts of it, learn the structure of different fiction pieces, write fiction of your own (short story).

### **FI LANGUAGE ARTS 120 (EARLY OR LATE)**

**Prerequisite:** FILA 110 or FSL Tech de com 110

Continue to develop all your French language skills and cultural knowledge through critical thinking. Challenge your views on life through texts and discussions to find your place in the multicultural world of the 21st century.

**Key Themes:** What's important? Who's important? Why is it important? How do we learn? How do we know?

**What will I do?** Prepare for the OPI through practice of conversations. Continue to learn Grammar & vocabulary to communicate more efficiently in French.

### **FSL TECHNIQUES DE COMMUNICATION 110**

Build confidence and fluency in French through dynamic conversations, interactive activities, and authentic use of the language.

**Key Themes:** Oral Proficiency, Active Listening, Expressive Communication, Cultural Awareness.

**What will I do?** In this course, you'll build your communication skills by talking with others every day and taking part in class activities, helping you become more confident and fluent. You'll work on creating and giving clear presentations, practice listening to understand challenging ideas, and explore French culture through media, discussions, and group projects. You'll also get to practice writing for real-life situations and creative projects, giving you a fun and well-rounded experience in learning how to communicate effectively.

#### **FSL TECHNIQUES DE COMMUNICATION 120**

**Recommended Prerequisite:** FSL Techniques de Communication 110

Master the art of effective communication! This advanced course prepares you for the Grade 12 Oral Proficiency Interview.

**Key Themes:** Advanced Oral Proficiency, Media Analysis, Persuasive Writing, Cultural Expression.

**What will I do?** In this course, you'll advance your French skills through conversations, debates, text analysis, and professional presentations. You'll also create targeted written work and earn a New Brunswick French proficiency certificate after completing your Oral Proficiency Interview!

#### **GRAPHIC NOVELS 120**

Do you love visual storytelling? Children's books, comic books and graphic novels all share information in two important ways: visuals and text. This course explores the genre characteristics and traits that make visual storytelling effective!

**Key Themes:** Students will explore the history of visual storytelling; read mentors; plan for creation and share with their writing community.

**What will I do?** You will study the graphic novel, including the evolution of visual storytelling, text structure, artistic voice and devices, and the impact on the audience. You will read, discuss and design a variety of visual texts and come away with a deeper understanding of the genre.

#### **INTERMEDIATE WOLOSTOQEQY 110**

This course expands on the skills developed in *Introductory Wolastoqey Latuwewakon 110*. Students continue building their understanding of the Wolastoqey language while exploring key cultural teachings and traditions.

**Key Themes:** Speaking, culture and traditions.

**What will I do?** You will learn basic biographical information in Wolastoqey. As well as basic conversation skills in Wolastoqey.

#### **INTRODUCTORY WOLOSTOQEQY LATUWEWAKON 110**

Discover the language of the Wolastoqey people and build a meaningful connection to this land. This beginner-friendly course welcomes anyone curious about learning Wolastoqey Latuwewakon.

**Key Themes:** Speaking, Culture and Traditions

**What Will I Learn?** You will learn the basics of Wolastoqey sounds, words, and simple conversations. Through activities, games, and short readings, you'll explore Wolastoqey culture and develop confidence using the language. Open to all students—First Nation and non-First Nation.

#### **MEDIA STUDIES 120**

Media Studies is a creative and engaging course that dives into how media shapes our world and empowers you with the tools to create your own.

**Key Themes:** You'll learn key techniques in media production, explore the power of advertising, dive into pop culture, and develop hands-on skills in filmmaking.

**What will I do?** You're expected to actively participate in discussions, engage in media production projects, and collaborate with peers on various creative assignments. The final project is producing your own short film, which will premiere at the school's end-of-year film festival.

#### **POST INTENSIVE FRENCH 10**

**Prerequisite:** Post-Intensive French 9

Continue your French language learning in PIF10! Discover French culture and develop your language skills through modern and relatable topics.

**Key Themes:** Movies - Special Effects, Values, Target Audience, Commercialization & Technology - Uses, Time Spent, and Impact.

**What will I do?** Learn to communicate in French! Practice speaking, interacting, listening, reading, and writing on diverse topics in French, through group discussions, presentations, conferences, creative projects, and reflection activities.

#### **POST-INTENSIVE FRENCH 110**

**Prerequisite:** Post-Intensive French 10

Unlock the power to express yourself fluently. PIF 110 will continue your development of French language skills through speaking, reading, interacting, listening and writing activities. This course is designed for students who have NOT been in French Immersion and focuses primarily on oral communication skills.

**Key Themes:** Injustices, unsolved mysteries, and the power of photography.

**What Will I do?** You will be expected to communicate, present, interact, listen, read and write in French.

**POST-INTENSIVE FRENCH 120**

**Recommended Prerequisite:** Post-Intensive French 110

This is your last stop for French in high school! If you've loved PIF 9-11 and want to finish strong with this advanced French speaking course, this is it!

**Key Themes:** Planning for your future, ecology, cultures of the World.

**What will I do?** This course is aimed to prepare you for the Grade 12 Oral Proficiency Interview. You will speak, interact, listen, read and write in French in class through discussions, presentations, conferences, creative projects, and reflection activities.

**SPANISH 120**

This course introduces the Spanish language and culture by developing listening, speaking, reading, and writing skills.

**Key Themes:** Oral, reading, writing and intercultural.

**What will I do?** In this course, you'll engage in fun and interactive activities designed to build your Spanish skills. Each day, you'll practice speaking, listening, and interacting in Spanish, responding to different situations and showing your understanding. You'll also create texts and other forms of representation while learning to respect and appreciate the cultural norms of the Spanish-speaking world.

**WRITING 110**

Do you love getting lost in stories, analyzing your favorite movies, or dreaming up your own creative worlds? Writing 110 is your chance to step into the shoes of an author and explore the art of storytelling.

**Key Themes:** The Writer's World, Finding Your Style, and Writing for an Audience.

**What will I do?** In this hands-on, workshop-style class, you will collaborate with peers, exchange feedback and present your writing to others. You will study mentor texts to uncover what makes great authors successful and create your own portfolio, including: Children's stories, short stories and collaborative projects.

**\*\* STUDENTS MUST HAVE A MINIMUM OF 8 CREDIT HOURS FROM HUMANITIES COURSES ON THIS PAGE TO GRADUATE.**

### **ANCIENT AND MEDIVAL HISTORY 112**

**Recommended Prerequisite:** Civics or FSL Civics

The roots of the present often lie deep in the past. Explore ancient mysteries, epic stories, and the roots of today's world. From Egyptian hieroglyphs to the Medieval knights, discover how past societies shaped human progress and wrestle with timeless questions about change, culture, and what it means to be human.

**Key Themes:** Egypt, Greece, Rome, India, Wabanaki, and more. Geography and Environment, ancient forms of government, unity and division within and between civilization, change and progress through time.

**What will I do?** Discuss with classmates, work in small groups, study artifacts and objects, read and understand texts and ancient documents.

### **CANADIAN HISTORY 122**

#### **FSL CANADIAN HISTORY 122**

**Recommended Prerequisite:** Civics or FSL Civics

How did we get here in Canada? Uncover the struggles and triumphs of people shaping the nation—from women and workers to Indigenous communities. Dive into questions of identity, diversity, and citizenship, and discover how Canada's past can inspire a fairer, brighter future or everyone.

**Key Themes:** Pre-European Indigenous history and culture, European settlement, Industrialization and World War, citizenship and immigration, and identities, unity, and multiculturalism

**What will I do?** Learn to think like a historian, understand old sources, debate and discuss big ideas, group discovery, write informative and persuasive pieces.

### **CIVICS OR FSL CIVICS**

How do power, rights, and democracy shape the world you live in? In Civics, you'll uncover the tools to make informed decisions, protect freedoms, and solve real-world problems. Be ready to learn your role in shaping the future.

**Key Themes:** Decision-making & representation; human Rights; citizenship & belonging; taking action.

**What will I do?** Discuss important topics with classmates, carry out a civic action project, reading and writing

### **MODERN HISTORY 111/112/113**

#### **FSL Modern History 112**

**Recommended Prerequisite:** Civics or FSL Civics  
Dive into great stories, fascinating people, and major moments in Modern History since 1750 that have shaped our world to be what it is today.

**Key Themes:** Revolution and the French uprisings, World War and Violence, Holocaust and other Crimes against Humanity, Cold War Competing Politics.

**What will I do?** Learn to think like a historian, understand old sources, debate and discuss big ideas, group discovery, write informative and persuasive pieces.

### **WABANAKI STUDIES 120**

**Recommended Prerequisite:** Civics or FSL Civics  
Who are we as treaty people? Explore the rich history and cultures of Indigenous peoples. Learn about Wabanaki traditions, stories, and contributions before European contact. Explore the impact of colonialism, Indigenous resistance, and how these histories impact us all as treaty people.

**Key Themes:** Indigenous Worldviews, Wabanaki culture and history, Indigenous/Non-Indigenous relations, Indian Act, Advocacy for social change.

**What will I do?** Discuss with classmates, work in small groups, study artifacts and objects, read and understand texts and government documents, participate in Wabanaki cultural experiences

### **WORLD ISSUES 120**

**Recommended Prerequisite:** Civics or FSL Civics  
How did we get to where we are on this planet? We are on the verge of revisiting the Moon and then beyond, yet millions worldwide struggle to get by with health, food, and housing issues. Then there are climate crises, international conflicts, and gender issues to name just a few. How did that happen? Better yet, what can be done about it?

**Key Themes:** You will study Humanity and Empathy, Sustainability, Interdependence and Geopolitics.

**What will I do?** Find and explore the roots of these issues through comparison and contrast to local, national, and international news and history. Class discussion, presentations, debates, and inquiry will lead us in examination of, and potential solutions to, local and global concerns.

### **INTRODUCTION TO DEBATE 110**

Introduction to Debate teaches the fundamental skills of constructing arguments, critical thinking, and effective communication through structured discussion and analysis of diverse topics.

**Key Themes:** Opinion vs Argument, Formal Debate, Public Forums, Toulmin Method, Canadian Parliamentary Debate

**What will I do?** You will be expected to speak on a daily basis. Through these daily discussions, you will develop skills in constructing logical arguments, analyzing opposing viewpoints, and communicating ideas effectively in structured, persuasive exchanges.

### **LAW 120**

**Recommended Prerequisite:** Civics or FSL Civics  
Who writes the law? Who does it protect and who does it serve? What does that mean for me? Dive into real-life cases, learn about Indigenous perspectives, and build skills to think critically and make a difference in your community.

**Key Themes:** You will learn about criminal law, the Charter or Rights and Freedoms, the role of the courts, Indigenous law, international law & policing.

**What will I do?** Apply lessons in law to real life scenarios, debate and discuss with classmates, read case studies, Socratic circles

### **POLITICAL SCIENCE 120**

**Recommended Prerequisite:** Civics or FSL Civics  
You are almost old enough to vote! Are you represented by any of the traditional party candidates in your area? Do they see you? Do you realize that it is entirely possible in “First Past the Post” elections for most people to have voted against the party that came to power? How does the rest of the world do it?

**Key Themes:** How does Government work? Legislation and Law Making, Political Debate, Unifying and Divisive Forces in Society, Ideologies and Systems, Global Competencies.

**What will I do?** Extensive class discussions, debates and inquiry will help you explore your voice and examine the roots of the political beliefs of others. Dispute concerns about, and differing views in, governance, legislation, conflicts, domestic and foreign policy, and political ideology.

### **SOCIOLOGY 120**

**Recommended Prerequisite:** Civics or FSL Civics  
Why does our society work the way it does? Why do certain trends survive while others don't? What happens when you don't fit the mold? This introduction to sociology helps you understand communities—from the school to the whole western world—by asking tough questions about how we live together and, hopefully, answering the questions you have about your place in it.

**Key Themes:** You will study sociology as a discipline, the making of culture, social theory, cults, criminal habits, morals, and social inequality.

**What will I do?** Learn to think like a sociologist, read theories from yesterday and today, debate and discuss big ideas, group discovery, write informative and persuasive pieces. \*Requires sociology

**CALCULUS 120**

**Prerequisites:** Pre-Calculus 12A & 12B

How do you calculate the slope of a line using only one point? What is the minimum cost of building a pipeline underwater vs on land? At what speed is the distance between two boats changing at a moment in time?

**Key Themes:** Limits, Derivatives, Applications of Derivatives, Integration

**What will I do?** Learn how high school Mathematics topics are used at university in the fields of Science/Engineering/Business. Develop the basic concepts of Differential Calculus and Integral Calculus. Have the option to challenge for Math 1003 credit at UNB.

**FINANCIAL & WORKPLACE MATH 110**

**Prerequisite:** GMF 10

Ever wondered when am I ever going to need this math? How can a forester determine the height of a tree without climbing it? How long does an accessibility ramp need to stretch along the ground if it leads up to a platform 3 feet off the ground? How much will that brand new car cost me when I am done paying for it in 5 years? These are just some of the “Real World” applications of mathematics that are explored in this course.

**Key Themes:** Trigonometry, Slope, Scale, Scale Drawings, and Financial Math

**What will I do?** Learn how to apply trigonometry to solve real world measurements, calculate slope as it relates to construction, plumbing, and other trades, use scale to read and create 2-dimensional and 3-dimensional representations of various objects, and learn about finance as it pertains to day-to-day life.

**FINANCIAL & WORKPLACE MATH 120**

**Prerequisite:** Fin & Work Math 110 OR Foundations of Math 110 (ENG or FSL)

Want to strengthen your math skills in preparation for entering the workforce or college program? Apply math concepts to everyday situations and extend your knowledge of financial math as you journey towards being self-sufficient.

**Key Themes:** Data, Probability, Linear Relations, Trig and Financial Math.

**What will I do?** Learn how to interpret data and use probability to make decisions, apply linear relations to business models, use trig to help solve any situation involving triangles and study how to spend and save your money wisely.

**FOUNDATIONS OF MATHEMATICS 110**

**FSL FOUNDATIONS OF MATHEMATICS 110**

**Prerequisite:** NRF 10 and GMF 10

How does a small business maximize revenue? How do I determine the height of a building while never leaving the ground? How far can a ski jumper travel? How can I plan for my financial future?

**Key Themes:** Systems of Linear Inequalities, Acute & Obtuse Triangle Trigonometry, Geometric Proofs, Quadratic Functions and Investment Calculations

**What will I do?** Apply and extend algebra skills from NRF to solve application problems involving linear and quadratic functions, apply the Cosine and Sine Laws to solve application problems with all types of triangles, use properties of angles and triangles to write mathematical proofs and further investigate calculations for loans and investments.

**FOUNDATIONS OF MATHEMATICS 120**

**Prerequisite:** Foundations of Math 110 (ENG or FSL)

How many tickets can be sold for Lotto 649? What is the probability that you will win first prize? What percent of Smart TV's stop working before their warranty wears out? Discover how to answer these questions and many more.

**Key Themes:** Statistics, Set & Logic Theory, Counting Methods, Probability & Odds and Functions.

**What will I do?** Learn how to use statistics, set theory and logic theory to interpret data and studies, use permutations and combinations to solve probability and odds questions, and use graphing technology to interpret and solve real world problems about functions.

**GEOMETRY MEASUREMENT & FINANCE 10**

**FSL GEOMETRY MEASUREMENT & FINANCE 10**

If you drive 100 km/h, how many miles per hour is this? When you earn \$450 in a week, how much money do you have left after deductions? How can you calculate the height of a tree without climbing it with a measuring tape? Discover the answers to these questions and many more practical everyday applications of math.

**Key Themes:** Mark-up & Sales, Gross & Net Pay, Simple & Compound Interest, Conversions with Imperial and Metric Measurements, Applications of Surface Area and Volume and Trig Problems.

**What will I do?** Calculations in financial math, conversions of measurements within and between metric and imperial systems, applying surface area and volume questions to everyday situations and solving real world problems using right angle trig.

**NBCC SKILLED TRADES & WORK READY MATH 120**

**Prerequisites:** Financial & Workplace Math 110 or Foundations Math 110 (ENG or FSL)

Looking for a career in the trades? Want to develop strong basic math skills? Want to work efficiently without the use of a calculator, especially on the job site? If you answered yes to any of these questions, you have found the right math course for you.

**Key Themes:** Operations with Whole Numbers/Integers/Decimals/Fractions, Percents, Proportions and Ratios, Scientific Notation, Measurement, and Geometry.

**What will I do?** Revisit basic operations without a calculator, use percents to solve problems, determine proportions and ratios, use scientific notation to solve problems that involve very large or very small numbers, learn to use various measurement tools, and learn new volume and surface area calculations that may be required on a job site. Be prepared to challenge for credit at NBCC for a first-year math course in trades programs.

**NUMBERS, RELATIONS & FUNCTIONS 10**

**FSL NUMBERS, RELATIONS & FUNCTIONS 10**

You are renting a venue for a party and 2 companies have differing base and hourly rates. How do you decide which is the best deal for your party? What is the prime factorization of 2025?

**Key Themes:** Prime Factorization, Exponent Laws, Factoring Polynomials, Linear Functions and Systems of Linear Equations

**What will I do?** Expand your algebra skills from Math 9B in the areas of exponents laws, factoring, equations of linear functions, solving application questions using linear graphs, equations, tables and systems of equations. Gain the required skills for the study of Precalculus.

**PRE-CALCULUS 110 OR FSL PRE-CALCULUS 110**

**Prerequisite:** Foundations of Mathematics 110 (ENG or FSL)

Your flight is going smoothly when you encounter an unexpected headwind. How much will this increase flight time? How much cement do you need to make a uniform walkway around your backyard pool? How high does an outfielder have to jump to rob a homerun?

**Key Themes:** Operations and Equations with Radicals, Rational Expressions, Quadratic Extensions, Quadratic Systems and Inequalities, Unit Circle Trigonometry

**What will I do?** Learn to extend your algebraic skills in the areas of radicals, rational expressions and Quadratics and how they interrelate to each other. Acquire the prerequisite skills for theoretical Calculus.

**PRE-CALCULUS A 120**

**Prerequisite:** Pre-Calculus 110 (ENG or FSL)

At what rate would we prefer investments to grow? What type of measurement is the pH scale, or the Richter scale? Which function best represents AC electricity?

**Key Themes:** You will explore key mathematical functions, some of which include Exponential, Logarithmic and Trigonometric Functions as well as the related applications.

**What will I do?** Learn to recognize a variety of mathematical functions and their properties along with related applications for various functions. Prepare for further studies in theoretical Calculus!

**PRE-CALCULUS B 120**

**Prerequisite:** Pre-Calculus A 120

What is the shape of a 4th degree polynomial? If you received a dollar on day 1, and it doubles every day, how much would you receive on the 30th day?

**Key Themes:** Exploration of key mathematical functions some of which include Polynomial and Rational functions and combine knowledge of all functions studied in high school. In addition to this, students will study Sequence and Series as well as be introduced to Combinations and Permutations.

**What will I do?** Learn to recognize a variety of mathematical functions and their properties along with related applications for various functions. Prepare for further studies in theoretical Calculus!

**BIOLOGY 111**

**Recommended Prerequisite:** Science for Sustainable Societies 10 (85% and above)

Biology 111 is an advanced course designed for the student who is self-motivated with a genuine interest in science. The level 1 course is not different in the number of skill descriptors; rather, there are increased expectations in terms of depth of understanding, and learner self-efficacy and more opportunity to participate in higher-order thinking activities.

**Key Themes:**

- The cell and its role in life processes.
- Biochemical topics such as cellular respiration and protein synthesis.
- Classification and diversity of organisms.
- Exploration of bacteria, viruses, and animals.

**What will I do?** Students will participate in several hands-on labs, including dissections, to deepen their understanding of biological concepts. These activities are designed to make biology both practical and engaging. In addition, various teaching methods such as lectures, research assignments, and group work will be a part of this course. \*Please note: Regular homework can be expected.

**Course fee:** \$5

**BIOLOGY 112**

**FSL BIOLOGY 112**

**Recommended Prerequisite:** Science for Sustainable Societies 10

Biology 112 offers an engaging exploration of the diversity of life, from microscopic organisms like viruses and bacteria to complex animals such as vertebrates. Students will investigate the structure and function of the cell, the basic unit of life, and learn how biologists classify living organisms.

**Key Themes:**

- The cell and its role in life processes
- Classification and diversity of organisms
- Exploration of bacteria, viruses and animals

**What will I do?** Students will participate in several hands-on labs, including dissections, to deepen their understanding of biological concepts. These activities are designed to make biology both practical and engaging.

**Course fee:** \$5.

**BIOLOGY 121**

**Recommended Prerequisite:** Biology 111/112 min of 85%.

Want to take a detailed look at how and why you are unique? Biology 121 is a challenging course that offers the opportunity to investigate the working of the cell at the chromosomal level and even further at the base level, DNA. We will dive into the science of genetics to understand how characteristics are

inherited throughout generations and will help us discover how evolution drives change in living things over time.

**Key Themes:** Ethics, Mitosis, Meiosis, DNA Replication, Protein Synthesis, Gene Regulation, Mutations, Genetic Engineering, Genetics and Evolution.

**What will I do?** We will make sense of challenging concepts, make connections to real world scenarios, use some basic biological lab equipment, solve problems using genetic concepts, and analyze the mechanisms of evolutionary theory.

**Course fee:** \$5.

**BIOLOGY 122**

**Recommended Prerequisite:** Biology 111/112

Planning on taking post-secondary biology? Want to take a little closer look into the biology that makes you the unique individual that you are? Biology 122 offers the opportunity to dig deep into the workings of the cell at the chromosomal level and even further at the molecular level - DNA. We will dive into the science of genetics to understand how characteristics are inherited throughout generations and will help us discover how evolution drives change in living things over time.

**Key themes:** Mitosis, Meiosis, DNA Replication, Protein Synthesis, Mutations, Genetic Engineering, Genetics and Evolution

**What will I do?** We will make sense of challenging concepts, make connections to real world scenarios, use some basic biological lab equipment, problem solve using genetic concepts, and analyzing the mechanisms of evolutionary theory.

**Course fee:** \$5.

**CHEMISTRY 111**

**Recommended Prerequisites:** Science for Sustainable Societies 10 (85% and above) and Math 10(GMF/NRF)

**Recommended Corequisite:** Foundations 110

Do you excel in science and are thinking of pursuing science, engineering, nursing or another related field after high school? If so, Chemistry 111 might be for you! Learn about the branch of science that deals with the identification of the substances which make up matter, the investigation of their properties, and the ways in which they interact to form new substances. Bring your excellent work ethic, strong math skills and exceptional study habits with you to learn about the fascinating world of chemistry in a fun, challenging, fast-paced and engaging environment!

**Key Themes:** Atomic theory, classification and structure of matter, elements and compounds, chemical bonding, molecular shape, measurement

## Leo Hayes High School

and the mole, balancing equations, chemical reactions and stoichiometry.

**What will I do?** Study the fundamentals of chemistry, apply these fundamentals toward writing balanced chemical equations, and use problem solving skills to predict new substances and perform mathematical calculations related to chemical reactions. Several labs will be completed to reinforce these concepts through teamwork. Each unit will conclude with an individual written assessment to demonstrate your learning. An enrichment project is an additional requirement of this course. \*Please note: Regular homework can be expected.

**Course fee:** \$5.

### CHEMISTRY 112

**Recommended Prerequisites:** Science for Sustainable Societies 10 and Math 10(GMF & NRF)

**Recommended Corequisite:** Foundations 110

Thinking of pursuing science, engineering, nursing or another related field after high school? If so, Chemistry 112 might be for you! Learn about the branch of science that deals with the identification of the substances which make up matter, the investigation of their properties, and the ways in which they interact to form new substances. Bring your strong work ethic, solid math skills and good study habits with you to learn about the fascinating world of chemistry in a fun, challenging and engaging environment!

**Key Themes:** Atomic theory, classification and structure of matter, elements and compounds, chemical bonding, molecular shape, measurement and the mole, balancing equations, chemical reactions and stoichiometry.

**What will I do?** Study the fundamentals of chemistry, apply these fundamentals toward writing balanced chemical equations, and use problem solving skills to predict new substances and perform mathematical calculations related to chemical reactions. Several labs will be completed to reinforce these concepts through teamwork. Each unit will conclude with an individual written assessment to demonstrate your learning.

Please note: Regular homework is expected.

**Course fee:** \$5.

### CHEMISTRY 121

**Prerequisites:** Chemistry 111 (85% or above)

**Recommended Prerequisite:** Foundations 110

Did you excel in Chemistry 111 and are thinking of pursuing science, engineering, nursing or another related field after high school? Chemistry 121 builds off the fundamental concepts already learned in Chemistry 111, so bring your strong work ethic, excellent math skills and exceptional study habits

with you as you continue to pursue the fascinating world of chemistry in a challenging, fun and engaging environment!

**Key Themes:** Thermochemistry, Kinetics & Equilibrium, Acids & Bases, Organic Chemistry.

**What will I do?** You will use a combination of theory and mathematical skills to solve problems as they relate to the four major units (thermochemistry, kinetics & equilibrium, acids & bases and organic chemistry). Several labs and lab reports (some of which will be formal) will be completed to reinforce these concepts through teamwork. Each unit will conclude with an individual written assessment to demonstrate your learning. \*Please note: regular homework is expected.

**Course fee:** \$5.

### CHEMISTRY 122

**Prerequisite:** Chemistry 112/111

**Recommended Prerequisite:** Foundations 110

Thinking of pursuing science, engineering, nursing or another related field after high school? Chemistry 122 builds off the fundamental concepts already learned in Chemistry 112, so bring your strong work ethic, solid math skills and good study habits with you as you continue to pursue the fascinating world of chemistry in a fun, challenging and engaging environment!

**Key Themes:** Thermochemistry, Kinetics & Equilibrium, Acids & Bases, Organic Chemistry.

**What will I do?** You will use a combination of theory and mathematical skills to solve problems as they relate to the four major units (thermochemistry, kinetics & equilibrium, acids & bases and organic chemistry). Several labs and lab reports will be completed to reinforce these concepts through teamwork. Each unit will conclude with an individual written assessment to demonstrate your learning. \*Please note: Regular homework can be expected.

**Course fee:** \$5.

### ENVIRONMENTAL GEOSCIENCE 110

**Recommended prerequisite:** Science for Sustainable Societies 10

In this exciting and hands-on course, you will explore the fascinating world of Earth and its natural systems! Environmental Geoscience focuses on understanding the origins of Earth and its place in space, the processes that shape our planet and how human activities have influenced our everchanging climate and ecosystems. You'll dive into topics like mapping, formation of the planet, the rock cycle, earthquakes, volcanoes and the movement of tectonic plates.

**Key Themes:** Mapping, Geologic Time, Rock Cycle, Volcanoes, Earthquakes, Mining and Climate

**What will I do?** You will attempt to understand how human activity has played a major role in shaping our planet while at the same time recognizing that Earth's processes have been occurring for a very long time, give or take 4.6 billion years.

**Course fee:** \$5.

### ENVIRONMENTAL SCIENCE 120

**Recommended prerequisite:** Science for Sustainable Societies 10

Learn about the roles of organisms in nature, what makes populations rise and fall, the state of the human population and how we impact the environment, major environmental issues and solutions to those issues.

**Key Themes:** Ecology, population dynamics, human impact, environmental solutions.

**What will I do?** Analyze how ecosystems work, model population growth, research environmental issues, and propose and implement solutions for the future.

**Course fee:** \$5.

### HUMAN PHYSIOLOGY 110

**Recommended Prerequisite:** Science for Sustainable Societies 10

The goal of this course is to help you understand how the human body works and how it reacts to the world around us. The focus will be on learning about various systems in the body, how they are structured, and how they work together to keep you healthy and in balance. Students will also learn how various health conditions can impact an individual.

**Key Themes:** Skeletal, Muscular, and Nervous system, Hormones, Reproduction, Digestion, Excretory, Circulation, Respiratory, and Immune system

**What will I do?** Students will participate in several in class assessments, and labs to help make connections between the content and the real world.

**Course fee:** \$5.

### INTRO TO ELECTRONICS 110

**Recommended Prerequisite:** GMF 10

Curious about how your favorite gadgets work or what makes technology tick? In this electronics course, you'll dive into the world of circuits, wiring, and components—lighting up LEDs, powering devices, and bringing projects to life. Spark your creativity with hands-on experiments and uncover the magic behind the machines! This course is ideal for students interested in technical trades, exploring electronics as a hobby, or pursuing a future career in engineering. Strong math skills required.

**Key Themes:** Fundamentals of electronics, DC and AC circuit analysis using Ohm's, Watt's, and

Kirchhoff's Laws. Relationship between electricity and magnetism.

**What will I do?** Learn the fundamentals and history of electronics. Become familiar with different basic electrical components. Practice your math skills daily by analyzing circuits. Participate in labs and quizzes.

### PHYSICS 111

**Recommended Prerequisites:** Science for Sustainable Societies 10 (85% or above) & NRF10

**Recommended Co-Requisite:** Foundations 110

Interested in science, engineering, computer science, kinesiology, or a related field and ready for a challenge? Physics 111 is for you! Discover Newton's Laws of Motion and explore the interaction between energy and matter. Level 1 emphasizes deeper understanding, critical thinking, and advanced mathematical routines to elevate your learning!

**Key Themes:** How Things Move, Why Things Move, Energy Transformations, and Waves.

**What will I do?** You will study the fundamentals of physics, solve problems to understand the physical world, and complete labs that reinforce concepts through teamwork. Each unit will conclude with a written assessment to demonstrate your learning.

**Course fee:** \$5.

### PHYSICS 112

**Recommended Prerequisites:** Science for Sustainable Societies 10 and NRF 10

**Recommended Corequisite:** Foundations 110

Thinking of pursuing science, engineering, computer science, kinesiology, or related field? Physics 112 could be for you! Discover Newton's Laws of Motion and explore how matter and energy interact. Bring your curiosity, math skills, and teamwork to investigate motion, forces, and energy in a fun and challenging environment!

**Key Themes:** How Things Move, Why Things Move, Energy Transformations, and Waves.

**What will I do?** You will study the fundamentals of physics, solve problems to understand the physical world, and complete labs that reinforce concepts through teamwork. Each unit will conclude with a written assessment to demonstrate your learning.

**Course fee:** \$5.

### PHYSICS 121

**Prerequisite:** Physics 111

**Recommended Corequisite:** Pre-Calculus 120A

Ready to take your physics knowledge to the next level? Physics 121 is for you! This course emphasizes greater independence and mastery, helping you develop a deeper understanding of

## Leo Hayes High School

the physical world. Engage in complex problem-solving, independent investigations, and critical thinking exercises that push your analytical skills to new heights. Use algebra, systems thinking, and technology to build a stronger scientific foundation and ignite your curiosity.

**Key Themes:** How Things Move, Why Things Move, Fields, and Circuits.

**What will I do?** You will study and apply the fundamentals of physics, solve problems to understand the physical world, and complete labs that reinforce concepts through teamwork. Each unit will conclude with a written assessment to demonstrate your learning.

**Course fee:** \$5.

### PHYSICS 122

**Prerequisites:** Physics 112/111

**Recommended Corequisite:** Pre-calculus 120 A

Building on the foundation of Physics 112, Physics 122 delves deeper into how our physical world works. Engage in hands-on demonstrations, investigations, and group activities to hone your critical thinking, problem-solving, and collaboration skills. Use algebra, systems thinking, and technology to enhance your scientific understanding and spark your curiosity.

**Key Themes:** How Things Move, Why Things Move, Fields, and Circuits.

**What will I do?** You will study and apply the fundamentals of physics, solve problems to understand the physical world, and complete labs that reinforce concepts through teamwork. Each unit will conclude with a written assessment to demonstrate your learning.

**Course fee:** \$5.

### SCIENCE FOR SUSTAINABLE SOCIETIES 10

#### FSL SCIENCE FOR SUSTAINABLE SOCIETIES 10

Science for Sustainable Societies invites you to explore the vital roles science and technology play in our lives while building a strong foundation for future high school courses. Dive into how elements bond, identify chemical changes, solve problems involving chemistry, examine the connection between matter and energy, and discover how electricity powers our world.

**Key Themes:** Chemistry, Energy, and Electricity

**What will I do?** Students will classify matter, interpret the periodic table, and model the atom while balancing chemical equations and exploring how chemical reactions sustain our world. Students will also model and perform calculations for electrical circuits, compare energy stores, and analyze how energy moves and transforms within systems.

**Course fee:** \$5.

### CREATIVE ARTS 110

Art is so much more than a picture on the wall! Art is music, sculpture, theater, dance, painting, poetry, and more.

**Key Themes:** Learn how the arts are connected to and contribute to our everyday lives, our communities, and our cultures.

**What will I do?** You will have many opportunities to make and discuss art. You will sharpen your critical thinking skills, and learn to discuss your likes, dislikes, and opinions of art in an informed way.

**Course fee:** \$10.

### CREATIVE ARTS 120

**Recommended Prerequisite:** Creative Arts 110

Are you passionate about the arts? Creative Art 120 invites you to explore the connections between music, sculpture, dance, theatre, poetry, painting, and more, and their role in our lives.

**Key Themes:** This course examines how the arts shape our identities, communities, and cultures, exploring their philosophical, psychological, and personal impact.

**What will I do?** Analyze concepts in art, experiment with various media, and create works that convey meaning. Build a portfolio while discovering your creative voice and the role of art in society.

**Course fee:** \$10.

### DIGITAL PRODUCTION 120\*

Ever wanted to turn your ideas into stunning visuals, captivating sounds, or epic videos? In this digital production course, you'll learn the tools to create, edit, and bring your imagination to life. From photos to podcasts to short films, you'll be the director, designer, and producer of your own digital masterpieces!

**Key Themes:** Canadian copyright, design principles, image editing, audio editing, video editing, website design

**What will I do?** Explore image, audio, and video editing software while bringing your ideas to life through planning, drafting, and revising. Give and receive feedback to improve your work and create polished, creative projects that showcase your skills.

### DRAMATIC ARTS 110

Are you ready to step into the spotlight and bring your creativity to life? In Dramatic Arts 110, you'll embark on an exciting journey to discover your unique voice and learn the fundamentals of theatre. Whether you're a seasoned performer or just curious about the stage, this course offers something for everyone.

**Key Themes:** Creative Process, Performance, Collaboration, and Reflection.

**What will I do?** You will master the basics of theatre, including stage directions, movement, and voice projection, while diving into improvisation exercises that sharpen your quick-thinking skills. Each day, you'll collaborate with peers and perform in front of your classmates, stepping out of your comfort zone to embody different characters. Through interactive activities, you'll have the opportunity to express yourself, build your confidence, and create unforgettable moments. By the end of the course, you'll not only understand the essentials of theatre but also gain the confidence to perform in front of any audience in a supportive and encouraging environment.

### DRAMATIC ARTS 120

Ready to take your theatre skills to the next level? Dramatic Arts 120 challenges you to step into the director's chair, master the creative process, and lead the charge in crafting powerful performances. This course is all about leadership, vision, and bringing your dramatic creations to life.

**Key Themes:** Creative Process, Collaboration, Leadership in Performance, Reflection

**What will I do?** In this course you will practice writing, directing, and producing original plays, allowing you to bring your creative vision to life. You'll revisit and refine the basics of theatre, ensuring you have a strong foundation in stage direction, movement, and vocal performance. Daily collaboration with peers will help you sharpen your skills, while performing in front of classmates builds confidence and experience. You'll also enhance your improvisation skills through advanced exercises that boost spontaneity and adaptability. Additionally, you'll explore the technical side of theatre, learning about lighting, sound, and set design to fully realize your productions.

### FASHION TECHNOLOGY AND DESIGN 110\*

Calling all creatives! Sewing is where art meets the trades; whether you're interested in art and design, or you love machinery and hands-on learning, this is a class for you. Stretch your creative muscles and learn a new skill in this beginner-friendly sewing and fashion introductory class!

**Key Themes:** Hand and machine sewing, basic garment construction, history of clothing and sewing machines, principles of design, social and environmental impacts of the fashion industry.

**What will I do?** Learn and apply sewing skills through projects of increasing complexity, research fashion trends and designers, design your own fits, and think critically about the impact fashion has on our planet and the people on it, and more!

**Course fee:** \$25 plus cost of project supplies.

### **FASHION TECHNOLOGY AND DESIGN 120\***

**Recommended Prerequisite:** Fashion Design 110 and/or experience using a sewing machine.

Ready for the next step in your journey to becoming a sewist and a designer? Suited for those who already know how to sew, this intermediate course is designed to help you explore aspects of the industry and career opportunities in fashion. Learn about how to navigate the design process from inspiration to finished project!

**Key Themes:** Designing, drafting, and creation of wearable garments, industry pathways, budgeting and marketing in the fashion industry, textile development and production, the positive and negative influences of textile production and consumption.

**What will I do?** Develop a design from start to finish, practice intermediate sewing techniques, learn how to draft a basic pattern, alter and re-size clothing, approximate budgets, create a fashion portfolio and more! (Note: this course does not cover the basics of operating a sewing machine. For the introductory class, please refer to Fashion Technology 110).

**Course fee:** \$25 plus cost of project supplies.

### **GRAPHIC ARTS AND DESIGN 110**

**Recommended Prerequisite:** Visual Arts 10

This course introduces you to the fundamentals of graphic design, including digital art, typography, and print production.

**Key Themes:** Digital Art, Product Design, Creative Mindset, Illustration, Art & Design Analysis.

**What will I do?** You'll work on real-world projects, develop a strong portfolio, and gain the skills to communicate visually in today's digital world. Perfect for anyone interested in design or looking to explore creative career opportunities.

**Course fee:** \$10.

### **GRAPHIC ARTS AND DESIGN 120**

Embark on an exciting journey into the world of graphic arts and design with Graphic Arts & Design 120. This advanced course is designed for students who are eager to deepen their understanding and skills in visual communication. You will tackle complex visual challenges, emulating the innovative problem-solving techniques employed by professional graphic artists.

**Key Themes:** Creative Visual Problem Solving, Digital Art, Illustration, Product Design, Typography & Layout, Critical Analysis and Reflection

**What Will I Do?** In this dynamic and hands-on course, you will elevate your creativity and refine your visual art skills. You will have the opportunity to build an impressive portfolio showcasing your work across various mediums, including illustration and typography. By manipulating the principles and

elements of design, you will create impactful, communicative pieces that resonate with your audience. Through collaborative projects, critiques, and self-reflection, you will gain insights into the design process and enhance your ability to convey ideas visually.

Join us in Graphic Arts & Design 120, where your artistic vision will take flight, and your design skills will reach new heights!

**Course fee:** \$10

### **INDIGENOUS WABANAKI ART 110**

Explore the fascinating world of Indigenous Material Culture! In this course, we'll look at Indigenous artifacts and learn where they come from. We'll listen to legends that inspire different art projects and try out some creative techniques ourselves. Along the way, we'll reflect on what we learn and connect with Indigenous culture through art.

**Key Themes:** Developing a personal portfolio, Exploring Indigenous themes, sourcing own materials (Collecting items outside), Reflecting

**What will I do?** Drawing, Painting, Beading, Leatherwork, (potentially quillwork)

**Course fee:** \$10.

### **MEDIA STUDIES 120 \***

Media Studies is a creative and engaging course that dives into how media shapes our world and empowers you with the tools to create your own.

**Key Themes:** You'll learn key techniques in media production, explore the power of advertising, dive into pop culture, and develop hands-on skills in filmmaking.

**What will I do?** You're expected to actively participate in discussions, engage in media production projects, and collaborate with peers on various creative assignments. The final project is producing your own short film, which will premiere at the school's end-of-year film festival.

### **MUSIC 10 GUITAR, INSTRUMENTAL OR KEYBOARDING**

Whether you are a beginner or already play guitar, keyboard, or a wind or percussion instrument, this course is your chance to sharpen your skills, explore your creativity, and take your music to the next level.

**Key Themes:** Technical and performance skills, music theory and aural skills, composition skill and exploration of genres and the music industry.

**What will I do?** Monthly class performances through exploring different genres of music; creativity through composition using technology; exploring the music industry

**MUSIC 112 (GUITAR)**

**Prerequisite:** Grade 10 Music (Guitar)

In this course, you'll build on your guitar skills, learning more advanced techniques in both rhythm and lead playing.

**Key Themes:** Song playing, Chords, Music Theory, Scales, Styles & Techniques.

**What will I do?** You'll explore a variety of musical styles, from rock to blues to classical, while improving your ability to read music, play by ear, and perform with others. Whether you're a seasoned player or just getting more serious about your practice, this class will help you refine your technique and deepen your understanding of music.

**Course fee:** \$5.

**MUSIC 112 (INSTRUMENTAL)**

**Recommended Prerequisite:** Music 10

Love playing your instrument and want to push your skills even further? If you've been playing for two or more years, this course is your chance to perform, compose, and create music at a whole new level!

**Key Themes:** Composition and Creativity, Music Theory and Aural Skills, Diverse Repertoire and Genres, and Music Industry Insights.

**What will I do?** You will perform and compose for both solo and group performances while experimenting with different genres and styles. You will have a chance to explore the music industry and reflect on music's role in the world.

**MUSIC 112 (KEYBOARDING)**

**Recommended Prerequisite:** Music 10

Ready to take your keyboard skills to the next level? Whether you're already experienced or just starting to explore your musical potential, this course is your chance to develop your talent, perform with confidence, and express your creativity through music.

**Key Themes:** Building technical proficiency and performance skills, exploring a wide range of musical styles and genres, composing original pieces and learning to use music technology, and deepening your understanding of music theory and its practical applications. Reflecting on the role of music in culture and the music industry.

**What will I do?** Time will be spent playing/practicing and performing on 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.

**VISUAL ARTS 10**

Are you interested in art? That's all you need to enjoy and improve your art skills.

**Key Themes:** The course covers a variety of media, both 3-D and 2-D, as well as art history and theory experienced through art projects.

**What will I do?** You will have an opportunity to experience and explore each of the following types of media: sculpture 3-D (clay), drawing 2-D design (perspective, tone/shading, drawing from observation) and painting 2-D design (water colour, colour theory, landscapes, portraits, still life).

**Course fee:** \$10.

**VISUAL ARTS 110**

**Recommended Prerequisite:** Visual Arts 10

**Key Themes:** Artistic Processes such as keeping a sketchbook for daily drawing practice, Painting with Acrylics, Printmaking with a printing press, Clay sculpture, Art History and responding to artworks from the past.

**What will I do?** Learn to think, plan and create like an artist; make creative artistic endeavors part of your daily life, create artworks that you can share with others; explore career opportunities that allow you to use your creativity to solve real world problems and understand the difference between appreciation and appropriation.

**Course fee:** \$10.

**VISUAL ARTS 120**

**Recommended Prerequisite:** Visual Arts 110

Learn more about how to create visual art using a variety of materials. Develop your own style and explore personal themes. Make connections about the influences of art and develop an understanding of visual art, both your own work and others, learning to communicate your understanding.

**Key Themes:** Developing a portfolio, explore personal themes, reflect on art and its processes

**What will I do?** Paint, draw, sculpt. Explore discuss, reflect.

**Course fee:** \$10.

### **BASKETBALL ENRICHMENT**

**Pre-Requisites:** Physical Education 9

Interested in improving your basketball skills both on and off the court? Then this is the course for you. This course is intended for experienced basketball players who are looking to further their basketball development.

**Key Themes:** On court practices, weight training, classroom sessions, exposure to various different sports and games.

**What will I do?** Students who are selected for this course will receive a Physical Education 10 credit. This course takes place during the 1st semester. There is time spent in the classroom, in the weightroom, at the fields and on the courts. This is an application course, please pick up your application from Guidance or Mr. Collins.

### **EARLY CHILDHOOD DEVELOPMENT 120**

Are you interested in a career working with children in fields such as education, nursing, child psychology or social work? This course just might be for you.

**Key Themes:** This course explores the foundational principles of child development with a focus on prenatal wellness, early childhood growth, and nurturing the whole child. Students will examine the physical, cognitive, emotional, and social aspects of development from conception through early childhood. Emphasis will be placed on the critical role of prenatal care, the influence of environmental and genetic factors on development, and the importance of creating a supportive and nurturing environment for children.

**What will I do?** Students will work on individual and group projects, and complete an observation of a young child to study and observe outside of regular classroom hours.

### **DANCE 110**

Can't sit still when you hear a great song? Want to improve your health and your mood? Have fun and express yourself through the art of dance! This course is great for students with and without previous dance experience.

**Key Themes:** Learn the basics of Hip Hop, Jazz, Tap, Contemporary, and more. Explore the role of dance throughout history, create your own choreography, learn about dance careers, technical skills, movement, and performance.

**What will I do?** In this course you will build your sense of rhythm and coordination, while getting in touch with your creative side.

### **HUMAN SERVICES 110**

Do you wonder how you might be able to find a career in which you can get paid to help people? If so, this course is for you.

**Key themes:** Human Services is a course for students who have a passion for helping and are curious about the careers that exist to assist people and communities, especially those most in need. Students will learn about the variety of careers that exist in this field of work, as well as specific groups of diverse clients served by those in the helping professions.

**What will I do?** In this course, students can expect to do regular journaling about their personal reflections related to class discussions, guest speaker visits, and class shared readings. The major projects in this course are the creation of a Holistic Personal Professional Portfolio, as well as a 1-day mini co-op towards the end of the semester.

### **INDIVIDUAL AND FAMILY WELLNESS 120**

#### **FI/FSL INDIVIDUAL AND FAMILY WELLNESS 120**

There are many kinds of families in our Canadian society today and many individuals are only familiar with their own family experience. This course will open your eyes to the experience of others and give you insight on healthy family relations.

**Key Themes:** Family wellness focuses on fostering personal growth, resilience, and balance in individuals and families as they navigate life's transitions and challenges. In a rapidly changing world, it empowers people to adapt and thrive, promoting mental, emotional, and physical well-being. Family Wellness supports healthy relationships, encourages self-discovery, and nurtures a sense of connection and purpose for individuals and families at every stage of life. Whether it's managing stress, navigating transitions, or strengthening family bonds, this holistic approach emphasizes the importance of care, communication, and growth in creating a fulfilling and harmonious life.

**What will I do?** Students will learn strategies on how to cope with the ever-changing issues that impact our lives and their impact on our family relationships. Student projects are a large part of this course.

### **LIFEGUARDING ENRICHMENT THROUGH PHYSICAL EDUCATION**

**Prerequisite:** Must swim 400m continuously. If unsure please contact [pool@fredericton.ca](mailto:pool@fredericton.ca) for an assessment.

Dive into the Lifeguarding Enrichment Course to become a certified Lifesaving Society Swimming Instructor and National Lifeguard.

**Key Themes:** Emergency Response, Aquatic Rescue, First Aid, Risk Management, Leadership, Communication, Teaching Techniques, Fitness, WaterSmart® Messaging, Lesson Planning, and Professionalism.

**What You'll Do:** Spend two periods daily at the Fredericton Indoor Pool, learning hands-on skills from experts. Develop rescue, safety, and teaching skills through practical scenarios and roleplay. Build confidence, leadership, and the expertise needed for a rewarding career in aquatics. Start your journey to a fun, impactful profession today!

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

Nutrition 120 is intended for students to gain a deeper understanding of how nutrients such as carbohydrates, proteins, fats, vitamins, and minerals function in the body to support daily activities and long-term health.

**Key Themes:** Nutrition guidelines, digestion, nutrient sources, nutrient functions, health, and disease.

**What will I do?** Analyze food trends, hands-on labs, detailed diagrams, and project-based learning.

**Course fee:** \$5.

#### **OUTDOOR EDUCATION 110**

**Recommended Prerequisite:** Physical Education 10  
Develop outdoor recreation skills through experiential learning. Learn to appreciate the outdoors through activity, while developing environmentally ethical practices.

**Key Themes:** Camping, archery, skiing, fire building, survival skills, and team building activities.

**What will I do?** Snowshoeing, orienteering, shelter building, knot tying, map reading, navigation, tree identification, wild edibles, poisonous plants, outdoor cooking, and trek planning. Students will increase their environmental awareness, develop fundamental outdoor skills, and their overall well-being. Students will have the opportunity to further develop both personally and socially. Enrolment is limited.

**Course fee:** \$100.

#### **PHYSICAL EDUCATION 10**

**Recommended Prerequisite:** Physical Education 9  
This course is intended for students who enjoyed Physical Education 9 and who want a chance to be more active.

**Key Themes:** Lifelong fitness and active living, teamwork and collaboration, confidence and personal growth, skill development.

**What Will I do:** Participate in a variety of physical activities such as fitness testing, weightlifting, dance, badminton, pickleball, basketball, floor hockey/ringette, handball, ultimate frisbee and low organized games. Focus on effort and active participation and learn and practice teamwork, communication, and sportsmanship skills.

#### **PHYSICAL EDUCATION 10 WITH HOCKEY ENRICHMENT**

**Recommended Prerequisite:** Physical Education 9  
Interested in improving your hockey skills both on and off the ice? Then this is the course for you. This course is intended for experienced hockey players who are looking to further their hockey development.

**Key Themes:** On ice practices, off ice training, classroom sessions, exposure to various different sports and games, sport/activity themed field trips

**What will I do?** Students who are selected for this 2-period course will receive a Physical Education 10 and a Wellness 110 credit. This course takes place during the 1st semester. There is time spent in the classroom, in the gyms/weightroom, at the fields and on the ice. Students will get roughly 40 on ice practices during the semester. This is an application course, please pick up your application from Guidance or Mr. Collins.

**Course fee:** \$50.

#### **PSYCHOLOGY110**

Are you interested in the role of the brain in human thinking, feelings and behavior? This course dives into this very thing and more.

**Key themes:** This is a course where students will learn introductory level information on the mind and human behaviors, as well as explore the following: a brief history of Psychology; the concept of intelligence and how we learn; and how and why we think, feel, act, and react the way we do. You will also learn about ethics related to Psychology, along with some of the psychological disorders.

**What will I do?** In this course, students will take part in class and small group discussions, project-based learning, in-class lab experiments, occasional tests, and written reflections

#### **PSYCHOLOGY120**

**Recommended Prerequisite:** Psychology 110  
Why do we behave the way we do? What makes someone altruistic or selfish? Why do we have weird dreams before a big test, and how do our friendships shape who we are and the decisions we make? In Psychology 120, you get to explore the inner working of the brain and body that influence how we understand, perceive, and interact with the world around us. This university-preparation course is designed to introduce topics that are covered in most post-secondary introductory Psychology courses.

**Key Themes:** Western and Indigenous perspectives on the mind and body, sensation and perception, motivation, attraction, and aggression, memory and

learning, mental illnesses and disorders, scientific research and their applications.

**What will I do?** Learn the terms, research methods, and guiding principles of psychology through lectures, experiments, case studies, group work, and self-directed research.

### **SPORT & RECREATION LEADERSHIP 120**

**Recommended Prerequisite:** Physical Education 10

Are you looking to improve your leadership skills? Wondering what makes good leaders? Looking to gain hands on experience working in the Sport and Recreation field? This class will take an in depth look into what makes a good leader, the key skills required to lead and provide a hands-on opportunity to develop these skills.

**Key Themes:** The course will involve both theoretical and practical aspects. Theory will investigate leadership styles, characteristics and event management skills required to successfully lead. Practical aspects of the course will focus on managing, teaching, coaching and running sports specific events.

**What will I do?** Students are required to complete 35hrs of volunteer work in the Rec & Sport stream. Manage large events such as Terry Fox School Walk/Run, Elementary Reading Buddies, Elementary Cross Country/ T&F Days, Participate in the Nasis Middle Fire Fighter Challenge, as well as develop and execute other events for LHHS Students.

**Course fee:** \$40.

### **WELLNESS THROUGH PHYSICAL EDUCATION 110**

**Recommended Prerequisite:** Physical Education 10  
This course is designed to promote healthy active living for life.

**Key Themes:** Lifelong healthy living, dimensions of wellness, diverse and non-traditional physical activities, community engagement, personal growth in wellness.

**What will I do?** Participate in physical activities such as yoga, boxing, fencing, bowling, skating, rock climbing, pickleball, beach volleyball, and weight training in various settings, including the gym, outdoors, and the community. Attend specialized sessions with guest professionals, such as physiotherapists, mental health experts, and dieticians. Learn about the dimensions of wellness, nutrition, and mental fitness through classroom discussions and activities. Set and work towards personalized wellness goals using insights gained from the course.

**Course fee:** \$50.

### **YOGA 110**

Yoga is a course to improve both your physical and mental health.

**Key Themes:** You will learn poses, breath work, and strategies for improving your overall mental well-being.

**What will I do?** You will engage and participate in physical postures and keep a practice journal. Major projects include volunteering in your community and designing and leading your own class.

**Course fee:** \$5.

**AUTOMOTIVE ELECTRICAL SYSTEMS 120**

Discover how electricity powers modern vehicles and learn how to diagnose and repair automotive electrical systems.

**Key Themes:** Electricity fundamentals, charging systems, ignition and starting systems, engine management and diagnostics.

**What will I do?** Study electrical theory, work with diagrams, use diagnostic tools, scan on-board computers, and troubleshoot real automotive systems.

**Course fee:** \$20

**CAREER PATHWAY DESIGN**

Are you wondering what career choice is best for you? Do you worry about matching your skill set with a particular career choice? If so, this course provides you an opportunity to explore a variety of careers that might provide the insight you need.

**Key Themes:** This course is designed to help students explore their career interests, develop personal goals, and gain practical experience in a chosen field.

**What will I do?** It combines classroom learning – in class assignments and a passion project - with real-world exposure with activities like job shadowing, workshops, guest speakers, and career planning experiences.

**CAREER PATHWAY MENTORSHIP 120 OR FSL CAREER PATHWAY MENTORSHIP 120**

Why just learn about the real world when you can jump right into it? In this hands-on course, you'll dive into the real world of work by gaining valuable experience through job placements. Whether you're interested in business, healthcare, technology, trades, or most any field, this class lets you explore your career interests, build your resume, and develop skills that set you apart. With support from mentors and real-world opportunities, you'll discover what it takes to succeed in the workplace while earning credit towards graduation. Get ready to roll up your sleeves and turn your classroom knowledge into career-ready skills!

Perfect for go-getters, future leaders, and anyone ready to make their mark!

**Key Themes:** High school career pathway mentorship course includes career exploration, workplace readiness, hands-on learning, professional networking, skill development, and connecting classroom knowledge to real-world experiences.

**What will I do?** Gain hands-on work experience by participating in a job placement tailored to your interests in fields like business, healthcare, technology, trades and more. Build workplace readiness by developing essential skills such as

communication, teamwork, and problem solving. Learn professional etiquette and how to thrive in a work environment. Connect classroom knowledge and real-world applications. Enhance your resume and career portfolio. Learn from mentors. Explore career paths. Earn credit while you work.

**COMPUTER ASSISTED MANUFACTURING 110**

Turn your ideas into reality with the power of laser cutters and 3D printers! In this CAM course, you'll design, create, and bring projects to life—whether it's crafting precision parts, custom designs, or cool 3D creations. Get ready to unleash your creativity and watch your concepts go from digital to physical!

**Key Themes:** Technical drawings and communication, 3D modeling, preparing 3D files for 3D printers and 2D files for laser cutters.

**What will I do?** Create technical drawings to communicate your ideas. Plan, design, and create 2D and 3D objects. Learn about how our (Glowforge) laser cutters work and how different 3D printers work.

**Course fee:** \$10

**COMPUTER SCIENCE 110**

Ready to crack the code to the digital world? In this computer science course, you'll learn how to think like a programmer, solve problems creatively, and bring your ideas to life. From writing your first lines of code to understanding how technology powers the world around you, this is your first step into a future full of possibilities!

**Key Themes:** Fundamentals of computer science, including career pathways, hardware vs. software, and the basics of computational thinking. Essential concepts like variables, data types, algorithms, pseudocode, conditionals, loops, and functions. Problem-solving, including debugging and effectively dealing with different errors.

**What will I do?** Write pseudocode and create flowcharts to communicate algorithms. Become familiar with the fundamentals of Java programming through lectures, assignments, and labs.

**COMPUTER SCIENCE 120**

**Recommended Prerequisite:** Computer Sci.110

Already know the basics of coding? Ready to level up your coding skills? In this course, you'll dive into advanced Java concepts, explore object-oriented programming, and master recursion. Build more complex programs, tackle real-world challenges, and unlock new ways to think like a pro developer. Get ready to take your coding abilities to the next level!

**Key Themes:** Recursion, OOP, AI, Cybersecurity, IoT, mobile apps, data analytics and architecture

**What will I do?** Build on skills developed in Computer Science 110. Dive deeper into advanced Java concepts including recursive algorithms and OOP (object-oriented programming) by completing assignments and projects.

### **COOP 120 (INTRO TO EARLY CHILDHOOD)**

Interested in a career working with children. Secure a placement with a licenced daycare, complete this course and you will be on your way to a career in early childhood education.

**Key Themes:** Child development, Understanding play and playfulness, Literacy and communication, Value of routines, Diversity and Social Responsibility.

**What will I do?** 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.

### **COOP 120 (LONG TERM CARE)**

Interested in becoming a nurse, LPN, or a resident assistant at a nursing home, then this course is for you.

**Key Themes:** Human anatomy and body mechanics, Exercise and activity, Personal hygiene, Grooming and dressing, Skin care and prevention of wounds, Client comfort and pain management, and much more.

**What will I do?** You will complete the coop program as normal, but you will work with a Registered nurse at a nursing home and virtually to complete the online course component. If successful you will be eligible to work at a licenced nursing home as a Residence Assistant.

Attendance is mandatory. Students must select a two- or three-hour coop and submit an application form at guidance.

### **CULINARY TECHNOLOGY 110**

Hot and tasty Cookies, Muffins, Pies, and many other products will be your guides through this exploration of baking techniques, artistry, and science in the culinary world. On most lab days, you get to eat your lesson.

**Key Themes:**

- Food Safety and Safe Kitchen Procedures
- Menu Planning and Plating
- Teamwork for Catering events
- Baking Pies, Cakes, Cookies, Yeast Breads, Quick - Breads, Beverages
- Culinary Methodologies and Equipment
- Global Competencies

**What will I do?** This is a hands-on baking and culinary theory course designed for students who may be considering a career in the food service industry. This course requires students to participate in school-based catering opportunities. Attendance and participation are key to success as this is a hands-on learning experience.

**Course fee:** \$35.

### **CULINARY TECHNOLOGY 120**

**Prerequisite:** Culinary Technology 110

Whether you aspire to be a professional chef, a passionate home cook, or simply wish to deepen your appreciation for the art of food, this course offers an engaging and immersive experience that will inspire your culinary journey.

**Key Themes:**

- Food Safety and Safe Kitchen Procedures
- Food Service and Menu Planning
- Culinary Methodologies and Equipment
- Culinary Production/ Enterprise Activities
- Global Competencies

**What will I do?** This course is designed for students who may be considering a career in the food service industry. It will require students to participate in school- based catering opportunities. Attendance and participation are key to success as this is a hands-on learning experience. You will also be required to attend some lunch time catering and service duties.

**Course fee:** \$35.

### **CYBERSECURITY 120**

Ever wondered what it takes to outsmart hackers, protect secrets, and become a digital detective? In this cybersecurity course, you'll learn how to uncover cyber threats, defend systems, and even think like a hacker (ethically, of course)! Get ready to dive into hands-on challenges, analyze real-world cases, and explore a field where every click could be the key to saving the day!

**Key Themes:** Importance of cybersecurity, attack prevention and recovery, ethics, social engineering, CIA (confidentiality, integrity, availability) triad, basic networking, password management, careers in cybersecurity

**What will I do?** Explore various types of cyber-attacks, including prevention and recovery strategies. Gain practical experience through hands-on labs in Windows 10 and Ubuntu 14, and practice command prompt navigation. Investigate real-world cyber-attacks through research projects. Complete quizzes. Learn from industry professionals during guest speaker sessions.

**DIGITAL PRODUCTION 120\***

Ever wanted to turn your ideas into stunning visuals, captivating sounds, or epic videos? In this digital production course, you'll learn the tools to create, edit, and bring your imagination to life. From photos to podcasts to short films, you'll be the director, designer, and producer of your own digital masterpieces!

**Key Themes:** Canadian copyright, design principles, image editing, audio editing, video editing, website design

**What will I do?** Explore image, audio, and video editing software while bringing your ideas to life through planning, drafting, and revising. Give and receive feedback to improve your work and create polished, creative projects that showcase your skills.

**ECONOMICS 120**

**Recommended Prerequisite:** Pre-calculus 110

This course is designed for those students who are interested in pursuing business post-secondary or for those who have a keen interest in the factors that control the world of capitalism we live in.

**Key Themes:** Supply and Demand, Money, Taxation, Government Structure and personal finance.

**What will I do?** Using the concepts covered learn how to apply them to understand the world's economy and how it affects me, as a Canadian and as an individual.

**ELECTRICAL WIRING 110**

**Recommended prerequisite:** Intro to Skilled Trades 110

Explore the essential skills and knowledge required to wire safe, functional, and code-compliant residential electrical systems in a controlled environment.

**Key Themes:** Hands-on Skill Development, Safety, Code Compliance, Electrical Theory, Problem Solving

**What will I do?** Safely use common hand and power tools for electricians, read and interpret electrical symbols and drawings, complete ten progressively complex wiring projects in a wood-framed booth.

**Course fee:** \$25.

**ELECTRICAL WIRING 120**

**Prerequisite:** Electrical Wiring 110

Build on the foundational skills from Electrical Wiring 110 as you shift to new wiring methods for the world of steel and concrete construction. Develop advanced techniques with new materials, including armored cable, conduit systems, and specialty wiring, while working both individually and collaboratively on real-world applications.

**Key Themes:** Advanced Skill Development, Material Adaptation, Code Compliance, Teamwork, Specialty Systems

**What will I do?** Learn to safely use advanced electrical tools and testing equipment, install cable and conduit systems to suit indoor and outdoor environments, install and commission fire alarm, security alarm, networking cabling, and motor control systems.

**Course fee:** \$25.

**ENTREPRENEURSHIP 110**

Unleash your inner innovator in this exciting journey through the world of entrepreneurship! Whether you're a dreamer, doer, or daring disruptor, this course is your launchpad for turning big ideas into reality. Explore the thrill of identifying opportunities, crafting bold business models, and mastering the art of pitching like a pro. Along the way, you'll tackle real-world challenges, collaborate with creative peers, and build the confidence to take risks that pay off. Get ready to think big, act smart, and leave your mark—this is your moment to make it happen!

For aspiring entrepreneurs, innovators, or anyone ready to take the leap into the world of starting your own business.

**Key Themes:** Developing new ideas, products, services, or business models that address unmet needs or solve existing problems.

**What will I do?** Discover opportunities by identify unmet needs, analyze market trends and uncover innovative solutions and practice problem-solving. Build bold business modules by designing and creating a sustainable business module. Develop prototypes and solutions by creating a tangible prototype or service plan to that demonstrates your vision.

**FASHION TECHNOLOGY AND DESIGN 110\***

Calling all creatives! Sewing is where art meets the trades; whether you're interested in art and design, or you love machinery and hands-on learning, this is a class for you. Stretch your creative muscles and learn a new skill in this beginner-friendly sewing and fashion introductory class!

**Key Themes:** Hand and machine sewing, basic garment construction, history of clothing and sewing machines, principles of design, social and environmental impacts of the fashion industry.

**What will I do?** Learn and apply sewing skills through projects of increasing complexity, research fashion trends and designers, design our own fits, and think critically about the impact fashion has on our planet and the people on it, and more!

**Course fee:** \$25 plus cost of project supplies.

### **FASHION TECHNOLOGY AND DESIGN 120\***

**Recommended Prerequisite:** Fashion Design 110 and/or experience using a sewing machine.

Ready for the next step in your journey to becoming a sewist and a designer? Suited for those who already know how to sew, this intermediate course is designed to help you explore aspects of the industry and career opportunities in fashion. Learn about how to navigate the design process from inspiration to finished project!

**Key Themes:** Designing, drafting, and creation of wearable garments, industry pathways, budgeting and marketing in the fashion industry, textile development and production.

**What will I do?** Develop a design from start to finish, practice intermediate sewing techniques, learn how to draft a basic pattern, alter and re-size clothing, approximate budgets, create a fashion portfolio and more! (Note: this course does not cover the basics of operating a sewing machine. For the introductory class, please refer to Fashion Technology 110).

**Course fee:** \$25 plus cost of project supplies.

### **FRAMING AND SHEATHING 110**

Learn how buildings are started, from the ground up! From the planning stage to the construction of wooden structures in a fully equipped carpentry shop.

**Key Themes:** Wood-frame construction, safety, blueprint reading, building codes, material estimating.

**What will I do?** Learn safe use carpentry tools, read and interpret blueprints, apply the National Building Code, measure and lay out materials, and construct framed structures.

**Course fee:** \$15

### **GROWTH, GOALS & GRIT 120**

This course will help you level up your mindset, get organized, and build real-world skills so you can crush it in school, life, and whatever comes next.

**Key themes:** You will learn to build positive habits, stay organized, and strengthen communication and reading skills to succeed in school, life, and beyond.

**What I will do?** You will be expected to read daily a non-fiction book of your choosing, to support your personal growth. You will work to recognize your strengths, create a plan for success, bounce back from challenges, and manage stress through various methods including mindfulness and meditation. You will set and crush goals, get better at time management, build your vocabulary, analyze different types of texts, and communicate confidently to meet your goals and achieve success.

### **HOSPITALITY & TOURISM 110**

Step into the world of Hospitality and Tourism,

where adventure, creativity, and opportunity meet! This fast-paced, hands-on course opens the door to one of the most exciting and rapidly growing industries in the world. Whether you're dreaming of becoming a chef, event planner, hotel manager, tour guide, or even a pilot, you'll explore all the incredible career paths this field has to offer. From world-class customer service to the latest travel trends, you'll dive deep into the key sectors that make this industry thrive.

**Key Themes:** Industry Sectors, Customer Service, Tourism in New Brunswick, Marketing and Promotion, and Event Planning.

**What will I do?** Prepare to explore both local and international tourism as you create brochures, explore marketing strategies, and develop detailed timelines. This course provides essential skills for a career in hospitality and tourism.

### **HOUSING AND DESIGN 120**

Explore the world of Housing and Interior Design and discover how our living environments have evolved—and continue to change! In this creative and practical course, you will dive into housing decisions, which are often the most significant financial choices of your life.

**Key Themes:** Architecture and design history, drafting basics, interior design and decor, and consumer housing choices.

**What will I do?** In this course, you will create floor plans, use 3D programs, design interiors, and build mood boards. You'll also learn about the history of architectural styles and design custom spaces based on client needs, developing essential skills for a career in design.

**Course fee:** \$10.

### **INTRO TO ELECTRONICS 110**

**Recommended Prerequisite:** GMF 10

Curious about how your favorite gadgets work or what makes technology tick? In this electronics course, you'll dive into the world of circuits, wiring, and components—lighting up LEDs, powering devices, and bringing projects to life. Spark your creativity with hands-on experiments and uncover the magic behind the machines! This course is ideal for students interested in technical trades, exploring electronics as a hobby, or pursuing a future career in engineering. Strong math skills required.

**Key Themes:** Fundamentals of electronics, DC and AC circuit analysis using Ohm's, Watt's, and Kirchhoff's Laws. Relationship between electricity and magnetism.

**What will I do?** Learn the fundamentals and history of electronics. Become familiar with different basic electrical components. Practice your math skills

daily by analyzing circuits. Participate in labs and quizzes.

### **INTRODUCTION TO SKILLED TRADES 110**

Discover the exciting world of trades by learning the basics of woodworking, safe power tool use, and hands-on project building. Create projects to take home while gaining skills that set the foundation for future courses like electrical wiring and welding!

**Key Themes:** Safety, Measurement, Tool usage, Woodworking and Project Design.

**What will I do?** You will build projects like a Step Stool, Breakfast Tray, as well as learn the fundamentals of electrical wiring!

**Course fee:** \$50.

### **MARKETING 120**

Dive into the exciting world of marketing where creativity meets strategy! Learn to craft campaigns, decode consumer behavior, and leverage social media like a pro. Explore branding, storytelling, and the secrets behind successful businesses. Whether you're an aspiring entrepreneur, influencer, or just curious about marketing, this class will leave you inspired and ready to make an impact!

**Key Themes:** Consumer behavior, the 4 Ps (Product, Price, Place, Promotion), branding, advertising, social media, digital marketing, market research, and ethical strategies.

**What You'll Do:** Discover what drives consumer decisions and how culture shapes buying habits. Master the 4 Ps, create innovative campaigns, analyze standout brands, and conduct ethical market research.

### **MILL AND CABINET 120**

**Recommended prerequisite:** Intro to Skilled Trades 110

This course is designed to take your interest in woodworking to the next level. Students will be exposed to a variety of joinery and hand tools to create three take home projects that can be proudly displayed.

**Key Themes:** safety, measurement, project layout, joinery, finish, hand tool skill development.

**What will I do?** take rough lumber and use the taught skills to transform it into a completed project.

**Course fee:** \$50.

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

Get hands-on experience working with the systems that make vehicles move, stop, and steer.

**Key Themes:** Chassis systems, braking, steering, suspension, transmissions, drivetrains.

**What will I do?** Service and maintain automotive components including brakes, shocks, steering systems, tires, wheel bearings, transmissions, and drive lines using industry tools and safety practices.

**Course fees:** \$20.00

### **RESIDENTIAL FINISH 120**

Take a building from a rough structure to a finished home by learning the skills that bring a house together and make it livable.

**Key Themes:** Interior finishing, insulation, wall and ceiling systems, trim work, doors and windows.

**What will I do?** Learn to install insulation, drywall, ceiling materials, trim, doors, and windows while learning safe tool use and industry standards.

**Course fee:** \$25.00

### **ROBOTICS & AUTOMATED TECHNOLOGY 120**

Step into the future with robotics and automation! In this course, you'll build and program robots, design automated systems, and bring machines to life. Whether it's coding a robotic arm or creating systems that think for themselves, you'll be at the cutting edge of technology—and having a blast doing it!

**Key Themes:** Evolution of robots, characteristics of robots, ethics, building and coding robots.

**What will I do?** In this technical course, you will spend most of your time completing "challenges" (labs) with your robot(s). Using a variety of sensors, your robots will make autonomous decisions to navigate their environment and complete tasks. You will also complete some research and other written assignments to deepen your understanding of robotics.

Leo Hayes High School

# *Flexible Options for Credit*

## **PERSONAL INTEREST COURSE 1 &2**

These courses are designed for **grade 12 students only** who are interested in self-directed exploration of a topic or subject of their own choosing. Personal Interest Courses count as flexible credit hours toward graduation or may be used as credit hours in a specific cluster depending on the topic the student chooses to study.

**Key Themes:** Self-awareness and self-management; communication; collaboration; problem-solving; creativity; global citizenship.

**What will I do?** Project design and planning, one-on-one mentoring; classroom and public sharing; journaling. This course is your window to learn how to plan, carry-out, and learn from a semester long project of your own imagination.

Personal Interest 1 – is a 1-period class

Personal Interest 2 – is a 2-period class.

**Application required—see Guidance.**



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Biology 111/112 or 121/122  
or  
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**Courses with Required and/or Recommended Prerequisites and/or Application**

<b>Course</b>	<b>Recommended and/or Required Prerequisite/Application</b>
Biology 111	Science for Sustainable Societies 10 (ENG or FSL) min 85%
Biology 112 (ENG or FSL)	Science for Sustainable Societies 10 (ENG or FSL)
Biology 121	Biology 111 or 112 (ENG or FSL) min mark of 85%
Biology 122	Biology 111 or 112 (ENG or FSL)
Calculus 120	Pre-Calculus 12A & 12B
Chemistry 111	NRF 10; Science 10 min 85%; Recommended Co-requisite -Foundations110
Chemistry 112	NRF 10; Science 10; Recommended Co-requisite -Foundations 110
Chemistry 121	NRF 10; Chemistry 111 min 85%; Recommended; Foundations 110
Chemistry 122	Chemistry 112/111; Recommended pre-requisite; Foundations 110
Computer Science 120	Computer Science 110
Cooperative Education 120	Application required
Culinary Technology 120	Culinary Technology 110 Required
Dramatic Arts 120	Dramatic Arts 110
Electrical Wiring 120	Electrical Wiring 110
English 111 Extended	English 10 Extended and Foundational min grade of 85%
English 111 Foundational	English 10 Extended and Foundational min grade of 85%
English 112 Extended	English 10 Extended
English 112 Foundational	English 10 Foundational
English 113 Foundational	English 10 Foundational
English 121	English 111 Foundational with min 85%
English 122	English 111 or 112 Foundational
English 123	English 112 or 113 Foundational
Fashion Technology 120	Fashion Technology 110
FI Language Arts 110	FI Language Arts 10 (grade 3 or 6 entry)
FI Language Arts 120	FI Language Arts 110 or FSL Tech de Com 110
FSL Tech de Com 120	FSL Tech de Com 110
Financial & Workplace Math 120	Fin and Work Math 110 <b>or Foundations</b> 110 (ENG or FSL)
Foundations of Math 110 (ENG or FSL)	NRF 10 & GMF10 (ENG or FSL)
Foundations of Math 120	Foundations of Mathematics 110 (ENG or FSL)
Mill and Cabinet Work 120	Recommended Pre-requisite: Intro to Skilled Trades 110
Music 112 (Guitar)	Recommended pre-requisite; Music 10 (Guitar)
Music 112 (Instrumental)	Recommended pre-requisite; Music 10 (Instrumental)
Music 112 (Keyboarding)	Recommended pre-requisite; Music 10 (Keyboarding)
Music 122	Music 112
NBCC Foundations Math 120	Fin & Work 110 or Foundations 110 (ENG or FSL)
Outdoor Education 110	Recommended pre-requisite: Physical Education 10
Personal Interest 1 & 2	For Grade 12 Students Only; Application required
Post Intensive French 110	Post Intensive French 10
Post Intensive French 120	Post Intensive French 110
Physics 111	NRF 10; Science 10 min 85%; Recommended Co-requisite: Foundations110
Physics 112	NRF 10; Science 10; Recommended Co-requisite: Foundations 110
Physics 121	Physis 111 min 85% ; Recommended Prerequisite ; Pre-Calculus 110
Physics 122	Physics 112/111; Recommended Co-requisite 12A
Pre-Calculus 110 (ENG or FSL)	Foundations 110 (ENG or FSL)
Pre-Calculus 12A	Pre-Calculus 110 (ENG or FSL)
Pre-Calculus 12B	Pre-Calculus 12A
Psychology 120	Psychology 110 recommended pre-requisite
Sport & Rec Leadership 120	Recommended pre-requisite: Physical Education 10
Visual Arts 110	Recommended pre-requisite; Visual Arts 10
Visual Arts 120	Recommended pre-requisite; Visual Arts 110
Welding/Metals Fabrication 120	Welding/Metals Fabrication 110
Wellness Through Physical Education 110	Recommended pre-requisite: Physical Education 10

## Leo Hayes High School Courses Listed Alphabetically

Course	Page	Course	Page	Course	Page
Ancient and Medieval History 112	14	Environmental Science 120	20	Marketing 120	32
Automotive Electrical Systems 120	28	Fashion Technology 110	22	Media Studies 120	12
Basketball Enrichment	25	Fashion Technology 120	23	Mill and Cabinet Work 120	32
Biology 111	18	FI Language Arts 10 (Grade 1 or 6 entry)	11	Modern History 111, 112, 113	14
Biology 112	18	FI Language Arts 110 (grade 3 or 6 entry)	11	Music 10	23
Biology 121	18	FI Language Arts 120 (Early or Late)	11	Music 112 (Guitar)	24
Biology 122	18	FSL Biology 112	18	Music 112 (Instrumental)	24
Calculus 120	16	FSL Canadian History 122	14	Music 112 (Keyboarding)	24
Canadian History 122	14	FSL Civics	14	NBCC Skilled Trades & Work Ready Math	17
Career Pathway Design	28	FSL Cooperative Education 120	28	Numbers Relations & Functions 10	17
Career Pathway Mentorship 120	28	FSL Foundations of Mathematics 110	16	Nutrition for Healthy Living 120	26
Chemistry 111	18	FSL Geometry Measurements & Finance 10	16	Outdoor Education 110	26
Chemistry 112	19	FSL Individual Family Wellness 120	25	Personal Interest 1	33
Chemistry 121	19	FSL Modern History 112	14	Personal Interest 1 and 2	33
Chemistry 122	19	FSL Numbers, Relations & Functions 10	17	Physical Education 10	26
Civics	14	FSL Pre-Calculus 110	17	Physical Education 10 with Hockey Enrichment	26
Computer Assisted Manufacturing 110	28	FSL Science for Sustainable Societies 10	21	Physics 111	20
Computer Science 110	28	FSL Technique de Communication 110	11	Physics 112	20
Computer Science 120	28	FSL Technique de Communication 120	12	Physics 121	20
Creative Arts 110	22	Financial and Workplace Math 110	16	Physics 122	21
Creative Arts 120	22	Financial and Workplace Math 120	16	Political Science 120	15
Culinary Technology 110	29	Foundations of Mathematics 110	16	Post Intensive French 10	12
Culinary Technology 120	29	Foundations of Mathematics 120	16	Post Intensive French 110	12
Cybersecurity 120	29	Framing and Sheathing 110	31	Post Intensive French 120	13
Dance 110	25	Geometry Measurement and Finance 10	16	Power Train and Chassis 110	32
Digital Production 120	22	Graphic Arts & Design 110	23	Pre-Calculus 110	17
Dramatic Arts 110	22	Graphic Art & Design 120	23	Pre-Calculus A 120	17
Dramatic Arts 120	22	Graphic Novels 120	12	Pre-Calculus B 120	17
Early Childhood Development 120	25	Growth, Goals and Grit 120	31	Psychology 110	26
Economics 120	30	Hospitality and Tourism 110	31	Psychology 120	26
Electrical Wiring 110	30	Housing and Design 120	31	Residential Finish and Insulation 120	32
Electrical Wiring 120	30	Human Physiology 110	20	Robotics & Automated Technology 120	32
English Language Arts 10 Extended	10	Human Services 110	25	Science for Sustainable Societies 10	21
English Language Arts 10 Foundational	10	Indigenous Wabanaki Art 110	23	Sociology 120	15
English Language Arts 111 Extended	10	Individual Family Wellness 120	25	Spanish 120	13
English Language Arts 111 Foundational	10	Intermediate Wolostoqey 110	12	Sport & Recreation Leadership 120	27
English Language Arts 112 Extended	10	Intro to Debate 110	15	Visual Arts 10	24
English Language Arts 112 Foundational	10	Intro to Early Childhood Coop 120	29	Visual Arts 110	24
English Language Arts 113 Extended	10	Intro to Electronics 110	20	Visual Arts 120	24
English Language Arts 113 Foundational	11	Intro to Skilled Trades 110	32	Wabanaki Studies 120	14
English Language Arts 121	11	Introductory Wolostoqey	12	Wellness through Physical Education 110	27
English Language Arts 122	11	Latuwewakon 110		World Issues 120	14
English Language Arts 123	11	Law 120	15	Writing 110	13
Entrepreneurship 110	30	Lifeguarding Enrichment	25	Yoga 110	27
Environmental Geoscience 110	19	Long-Term Care Coop 120	29		



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## Admission Requirements

### *Applicants from New Brunswick*

High school applicants must meet the following minimum requirements for admission to the Bachelor of Arts program at St. Thomas University:

- high school graduation (by end of August of the year in which students apply)
- minimum average of 70% on five successfully completed Grade 12 academic courses one of which must be English 122
- four remaining academic electives chosen from the list below:



Art 120 **OR** Visual Arts 120  
Biology 122  
Business Organization and Management 120  
Calculus 120  
Canadian Geography 120  
Canadian History 122  
Canadian Literature 120  
Chemistry 122  
Computer Science 120  
Communications 120 **OR** FI Techniques de  
Communication 120  
Economics 120  
Essential Skills Pathway Program - Capstone  
Post-Intensive French 120 **OR** French 122  
French Immersion Lang Arts 120  
Geology 120  
Introduction to Environmental Science 120  
Introduction to Accounting 120  
Introductory Mi'kmaw 110  
Journalism 120 **OR** Broadcast Journalism 120  
Latin 120  
Law 120  
Mandarin 120  
Modern History 112  
Music 122 **OR** World Music 120  
Native Studies 120 **OR** Indigenous Studies 120  
Oceanography 120  
Philosophy 120  
Physical Geography 110  
Physics 122  
Political Science 120  
Pre-Calculus 110 **OR** Foundations of Math 120  
Pre-Calculus A 120  
Pre-Calculus B 120  
Psychology 120  
Sociology 120  
Spanish 120  
Statistics 120  
Theatre Arts 120 **OR** Dramatic Arts 120  
Women, Media and Culture 120 **OR** Gender,  
Media and Culture 120  
World Issues 120



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Check the QR code for updates and additional courses accepted for admission!



**Leo Hayes is an inclusive  
community of learners  
committed to building  
relationships, valuing wellness,  
and igniting curiosity.**