

# **COURSE SELECTION HANDBOOK**



**NACKAWIC HIGH SCHOOL**

**2026-2027**

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## ENROLLMENT GUIDELINES

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



**Student schedules are subject to change from semester to semester.**

# INTRODUCTION AND GENERAL COMMENTS

The purpose of this guide is to provide pertinent information for students as they select grade 10, 11, and 12 courses. The Graduation Requirement template on page 4 should be used as a reference.

## Choosing Courses:

Each spring, students select courses for the following academic year. There is a wide variety of courses from which to choose in grades 10, 11, and 12, and a number of factors that should be considered when making these choices. It is important that students take time to carefully consider their options since it can be difficult to make changes once scheduling for the year is complete. Course offerings will be established after students complete their course wish lists on myBlueprint this year. Students not completing myBlueprint course wish list will be placed in open courses for the upcoming fall. Course changes will only be permitted in cases of course failures and/or post-graduation plan changes. Additional information may be obtained through the NHS Guidance Department.

## Course Descriptions:

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 at one level only.

ex: Human Physiology 110, Law 120

**Level 2 courses** are academic/university/college preparatory.

ex: Modern History 112, Biology 122

**Level 3 courses** are general/college preparatory.

ex: Modern History 113, English 123

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

ex: Chemistry 111, Physics 121

## Recommendations:

Please read the course descriptions and requirements carefully prior to course selection as many courses have recommendations. Some courses must be taken in sequence to fulfill the prerequisite. For example, Foundations of Mathematics 110 must be completed before Foundations of Mathematics 120. Also, students are strongly encouraged to speak to their current teachers about recommendations prior to completing the course wish list. **SCHOOL OFFICIALS WILL ADVISE STUDENTS, BUT THE ULTIMATE RESPONSIBILITY FOR COURSE SELECTION REQUESTS LIE WITH STUDENTS AND THEIR PARENT(S) OR GUARDIAN(S).**

## Course Fees:

Please note that some courses require additional supplies and/or payment of fees.

## Timetables:

Timetables are created based on the student wish lists completed in myBlueprint and course offerings. Some listed courses may be cancelled due to insufficient enrollment. For senior students, certain courses required for university and college will not be completed in the first semester. However, applications to post-secondary institutions are usually assessed on past, present, and predicted performance at the time of application.

## Transcripts:

All grade 10, 11, and 12 courses and final marks are permanently recorded on a student's transcript. The school transcript provides an ongoing record of high school courses taken and marks obtained at any Anglophone NB public school. It is the official document required by post-secondary institutions to verify a student's academic record. Transcripts are updated at mid-term and semester end.

## Transfer Students:

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



# FRENCH IMMERSION CERTIFICATE PROGRAM

Students in French Immersion who wish to maintain and improve their proficiency level are encouraged to take a minimum of three French Immersion courses in grade 11.

## CERTIFICATE OF IMMERSION

This certificate is issued by the Anglophone School District West and is offered to all students who have all 20 FI credit hours in Grade 9 and 10, and a total combination of 20 FI credit hours over Grades 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. Students must be enrolled in an FI or PIF course (of any subject matter). This certificate is awarded by the Department of Education after an assessment by professional evaluators. The certificate is presented upon completion at the end of the semester. There is no cost for this assessment.

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# FOCUS ON INFORMATION TECHNOLOGY (FIT) CERTIFICATE PROGRAM

The Focus on Information Technology (FIT) Program is a national high school program for students interested in pursuing a career in an IT-related field. It provides high school students with technology and business skills, essential workplace skills, and work-related experience. The Information and Communication Technology Council of Canada will provide documentation and certificates to those who qualify.

## FIT BASIC CERTIFICATE

Students who successfully complete the courses in one of the pathways listed below will receive a FIT Certificate upon graduation.

### Business & Information Analysis

- Information Technology 120
- Business Management 120
- Entrepreneurship 110

### Network & System Operations

- Information Technology 120
- Business Management 120
- Technical Support 110

### Software Design & Development

- Information Technology 120
- Business Management 120
- Computer Science 110

### Interactive Media

- Information Technology 120
- Business Management 120
- Digital Production 120

## FIT with EXPERIENCE CERTIFICATE

Students will successfully complete the courses in one of the pathways listed above and will complete Cooperative Education 120 in a related field **OR** 200 hours of documented paid employment or volunteer work outside of school hours. To qualify, the experience must be in an approved, appropriate IT-related workplace.



# GRADUATION REQUIREMENTS

## Language Arts and Languages (Minimum 24 credit hours)

- ELA Foundational 10 (Compulsory)
- ELA Extended 10 (Compulsory)
- PIF 10/FILA 10 (Compulsory)

**\*\* Plus one elective from Language Electives list** (Please check off below)

### For Grade 11:

- Select ELA Foundational 112/113 (Compulsory)

**\*\* Plus one elective from Language Electives list** (Please check off below)

### For Grade 12:

- English 122,123 (Compulsory)

## Language Electives: (Minimum of 2 language electives)

<input type="checkbox"/> ELA Extended 112/113 <input type="checkbox"/> Graphic Novel 120 <input type="checkbox"/> Journalism 120 <input type="checkbox"/> Media Studies 120 <input type="checkbox"/> Reading Tutor 120 <input type="checkbox"/> Writing 110	<input type="checkbox"/> FILA 110 <input type="checkbox"/> FILA 120 <input type="checkbox"/> PIF 110 <input type="checkbox"/> PIF 120 <input type="checkbox"/> FSL Techniques de Communication 110 <input type="checkbox"/> FSL Techniques de Communication 120 <input type="checkbox"/> FSL Writing 110 <input type="checkbox"/> FSL Media Studies 120	<input type="checkbox"/> Intro to Wolastoqey 110 <input type="checkbox"/> Spanish 110 <input type="checkbox"/> Spanish 120 <input type="checkbox"/> Other: _____
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## Mathematics (Minimum of 3 math courses--12 credit hours from this cluster.)

- Geometry Measurement and Finance 10 **OR** FI Geometry Measurement and Finance 110 (compulsory)

### Academic Electives

- NRF10
- Foundations 110
- Foundations 120
- Pre-Cal 110
- Pre-Cal 120A
- Pre-Cal 120B
- Calculus 120
- Other: \_\_\_\_\_

### Applied Electives

- Financial Workplace 110
- Financial Workplace 120
- NBCC Math 120

## Humanities (Compulsory 2 courses--8 credit hours)

- Civics **OR** FI Civics (compulsory plus 1 additional elective from the following:)

- Ancient and Medieval History 112
- Canadian History 122
- Law 120
- Political Science 120
- Modern History/FI 112
- Modern History 113
- Other: \_\_\_\_\_
- Wabanaki Studies 120
- World Issues/FI 120
- Economics 120
- Sociology 120

## Science (Compulsory 2 courses--8 credit hours)

- Biology 112
- Biology 122
- Agriculture 110
- Forestry 110
- Chemistry 112
- Chemistry 122
- Science 10
- FI Science 10
- Physics 112
- Physics 122
- Human Phys 110
- Other: \_\_\_\_\_
- Auto Electrical Systems 120 \*
- Environmental Geoscience 110
- Environmental Science 120

**Personalized Well Being (Compulsory 5 courses--20 credit hours) total from the next three clusters. Each of the clusters will need to have at least one course chosen from them. Courses marked with \* may fit in more than one course cluster. It can only be used as a grad requirement for one cluster.**

**Creative Arts 1 Course – 4 credit hours (Compulsory):**

- |   |   |  |
|---|---|--|
| <input type="checkbox"/> Creative Arts 110                | <input type="checkbox"/> Graphic Art & Design 110 | <input type="checkbox"/> Visual Arts 10  |
| <input type="checkbox"/> Digital Production 120*          | <input type="checkbox"/> Media Studies 120*       | <input type="checkbox"/> Visual Arts 110 |
| <input type="checkbox"/> Dramatic Arts 110                | <input type="checkbox"/> Music 10                 | <input type="checkbox"/> Visual Arts 120 |
| <input type="checkbox"/> Dramatic Arts 120                | <input type="checkbox"/> Music 112                | <input type="checkbox"/> Other: _____    |
| <input type="checkbox"/> Fashion Technology & Design 110* | <input type="checkbox"/> Music 122                |  |
| <input type="checkbox"/> Fashion Technology & Design 120* | <input type="checkbox"/> Popular Music 120        |  |
| <input type="checkbox"/> Housing and Design 110           |   |  |

**Wellness and Physical Education 1 Course – 4 credit hours (Compulsory):**

- |   |  |
|---|--|
| <input type="checkbox"/> Develop and Lead 110               | <input type="checkbox"/> Outdoor Education 110                 |
| <input type="checkbox"/> Early Childhood Development 120    | <input type="checkbox"/> Physical Education 10                 |
| <input type="checkbox"/> Health Care 110                    | <input type="checkbox"/> Psychology 110                        |
| <input type="checkbox"/> Human Services 110                 | <input type="checkbox"/> Psychology 120                        |
| <input type="checkbox"/> Individual and Family Wellness 120 | <input type="checkbox"/> Sport and Recreational Leadership 120 |
| <input type="checkbox"/> Nutrition and Healthy Living 120   | <input type="checkbox"/> Wellness Physical Education 110       |
| <input type="checkbox"/> Other: _____                       | <input type="checkbox"/> Yoga 110                              |

**Career Connected 1 Course – 4 credit hours (Compulsory)**

**Info and Communication Tech**

- Computer Science 110
- Computer Science 120
- Digital Production 120 \*
- Cybersecurity 110
- Cybersecurity 120
- Other: \_\_\_\_\_

**Career and Occupational**

- Business Management 120
- Career Pathway Design 10
- Career Pathway 120 (4 ch)
- Career Pathway 120 (8 ch)
- Career Pathway 120 (12 ch)
- Early Childhood Services 110
- Entrepreneurship 110
- Fashion Tech and Design 110
- Forestry 110
- Financial Accounting 120
- Growth Goals and Grit 120
- Hospitality and Tourism 110
- Housing and Design 120 \*\*
- Marketing 120
- Other: \_\_\_\_\_

**Skilled Trades**

- Auto Electrical Systems 120 \*
- Culinary Tech 110
- Culinary Tech 120
- Electrical Wiring 110
- Framing and Sheathing 110
- Int. Combustion Engines 110
- Intro to Skilled Trades 110
- Metal Fab/Welding 110
- Metal Fab/Welding 120
- Mill and Cabinet Work 120
- Powertrain and Chassis 110
- Residential Finish 120
- Other: \_\_\_\_\_

**Electives (Not indicated elsewhere)**

1.	7.
2.	8.
3.	9.
4.	10.
5.	11.
6.	12.

Total Credit Hours Obtained ..... /120 (must have 100 for graduation)

## Humanities

### **ANCIENT/MEDIEVAL HISTORY 112**

Ancient and medieval histories have an influence on popular culture, public discourse, and academic curricula. The roots of the present lie deep in the past, and an understanding of these societies will give students the ability to think critically about that influence and fosters the development of historical thinking. Thinking about how we are different from past societies—and how we continue to ponder many of the same questions—helps us to understand the human condition more broadly. Ancient and Medieval History addresses big ideas in civics, includes Indigenous perspectives and ways of knowing, and provides connections to the modern world. Ancient and Medieval History fosters thoughtful and engaged citizenship through the lens of topics students continue to find exciting, such as the Peloponnesian War between Athens and Sparta, Rome's gladiatorial spectacle, and Henry VIII's quarrel with the Roman Catholic Church. These interpretive skills are readily transferrable to a variety of activities and careers.

### **CANADIAN HISTORY 122**

This is a Canadian History course for grade 11/12 students interested in history and wanting to learn more about the five key relationships that make up Canadian History and how they have evolved over time. Emphasis will be on relationships between English and French, Aboriginal peoples, Immigrants and individuals and the State and our relationships with the United States and the United Kingdom.

### **CIVICS**

#### **FI CIVICS**

In a rapidly changing world, it is critical that students are invested in the public good, equipped to make informed decisions, and supported in participating in democratic decision-making and civil discourse. This course focuses on the elements required to bolster this participation: citizenship, democratic processes, and fundamental human rights and freedoms. To preserve a healthy democracy, students must be prepared to examine how power is gained, used, and justified. They must also be prepared to support the protection of individual and collective rights and freedoms ensured within the context of constitutional democracy. **All students must take Civics as it is a compulsory graduation requirement.**

### **ECONOMICS 120 \***

This course is introductory economics aimed at familiarizing students with economic principles and providing them with an appreciation of the major economic issues in our society such as

unemployment, inflation, GDP, provincial and federal budgets, as well as with programs, strategies and regulations created to deal with these issues. Units include introductory concepts, supply and demand, the stock market, economic indicators, money and the Canadian banking system and stabilization policy.

### **LAW 120 \***

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

### **MODERN HISTORY 112**

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

This course is designed for students who plan to attend post-secondary institutions. Students will learn about the most significant events and forces in the western world over the last 400 years which will include rights and revolution, nationalism and war. Students will become increasingly proficient in historical thinking, research and analysis and will demonstrate a competence in written and oral expression.

### **MODERN HISTORY 113**

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

### **POLITICAL SCIENCE 120 \***

This course examines political thought, systems, and engagement. Students investigate political philosophies, ideologies, and different forms of government through research, discussions, and simulations. Students will explore the structure and operations of governance in Canada as well as other democracies and non-democracies. Finally, students will examine the rights, responsibilities, and roles of individuals and groups in Canada including media, political groups, and Indigenous Peoples. Regular attendance is vital as there is a heavy focus on oral communication and group work, including a term seminar project.

### **SOCIOLOGY 120**

This course is designed to be a broad introduction to the field of sociology. Students will explore the links between society and individual experiences, and develop the ability to critically examine, and better understand their own beliefs about the social world. Through various teaching and learning methods, students will learn about such topics as culture, socialization, social control, and social movements. They will investigate major dimensions of inequality, including race, class, gender, ability, and sexuality. Throughout the course, students will consider issues of social justice, what “justice” means, and how the tools of sociological inquiry can be applied to promote a more just world.

### **WORLD ISSUES 120** **FI WORLD ISSUES 120**

This course is a study of global issues and relies heavily on student engagement, including seminars and challenging topical discussions. The course provides opportunity for student choice within the curriculum themes of humanity, interdependence, and geopolitics.



**Languages  
Arts and  
Languages**

**Note: EAL class placements are determined by a combination of WIDA scores and teacher recommendation and cannot be selected by students.**

**EAL (English as an Additional Language)**

The WIDA MODEL test is used to identify students who would benefit from EAL classes. This test measures speaking, listening, reading, and writing in the areas of Social and Instructional Language, English Language Arts, Mathematics, Science, and Social Studies. After the WIDA test, a recommendation is made for one or more of the following courses:

**EAL 110 ESSENTIALS A1.1  
EAL 110 ESSENTIALS A1.2**

**EAL 120 CONNECTIONS A2.1 AND  
EAL 120 CONNECTONS A2.2 (A2 LEVEL)**

**EAL 120 EXPRESSIONS B1.1 AND  
EAL 120 EXPRESSIONS B1.2 (B1 LEVEL)**

**Note: Students may be required to repeat an EAL Pathway depending on their language development, but the course content will change to meet the needs of the learner.**

**English Language Arts Overview**

High School English Language Arts includes required courses and optional levels. Learners engage with increasingly complex texts both collaboratively and independently. Emphasizing Canadian and diverse content, students must complete one level to advance. Course complexity increases with each grade.

**Grades 11 and 12 Levels**

Students choose from Level 1, 2, or 3 courses:

- **Level 2:** The standard curriculum for grades 11 and 12, adjusted for breadth, depth, and inquiry based on the level. Students develop critical thinking and essential skills.
- **Level 3:** Focusing on clear communication through written and spoken word, students explore fiction, nonfiction, and diverse texts with guided assignments to enhance literacy skills. This course may be the perfect fit for students who are not planning to go to university.

Your course selections in high school will look as follows:

<b>Required courses (you must select)</b>
<b>ENGLISH LANGUAGE ARTS 10 FOUNDATIONAL</b>
<b>ENGLISH LANGUAGE ARTS 10 EXTENDED</b>
<b>ENGLISH LANGUAGE ARTS 112/113 FOUNDATIONAL</b>
<b>ENGLISH LANGUAGE ARTS 122/123</b>

<b>Optional selections</b>
<b>ENGLISH LANGUAGE ARTS 112/113 EXTENDED</b>
<b>INTRO MI'KMAQ 110</b>
<b>JOURNALISM 120</b>
<b>TECH DE COMMUNICATIONS 110</b>
<b>WRITING 110</b>

**ENGLISH LANGUAGE ARTS 10 FOUNDATIONAL**

This is a one semester **required course**. It will provide focus on building essential learnings in all areas of the English Language Arts. After this course, learners will choose another language and literacy course. Learners will listen, view, read, and discuss increasingly complex information and literary texts, representing a variety of voices, both collaboratively and independently. With an emphasis on Canadian content, including indigenous authors, students will be exposed to a wide variety of texts representing diverse voices and perspectives. Learners will interact, read, and represent. They will understand the learning processes and strategies that work for them when creating a variety of texts.

**ENGLISH LANGUAGE ARTS 10 EXTENDED**

This is a one semester course that will provide strengths-based, relevant learning opportunities where learners (under the guidance of their teachers) will extend their literacy skills and connect to the world around them.

**ENGLISH LANGUAGE ARTS 112/113 FOUNDATIONAL**

This is a one semester **required course**, that builds upon the skills developed in English 10 Foundational. It will provide focus on building essential learnings in all areas of the English Language Arts, based on the skill descriptors and achievement indicators listed in the grade 11 holistic curriculum framework. After this course, learners will choose another language and literacy course.

**Languages  
Arts and  
Languages  
Cont'd**

**ENGLISH LANGUAGE ARTS 112/113  
EXTENDED**

This course is an elective, one semester course. This course will provide strengths-based, relevant learning opportunities where learners (under the guidance of their teachers) set goals, connect their knowledge to the world around them, and position themselves to achieve their literacy learning objectives.

**ENGLISH LANGUAGE ARTS 122**

This course is designed for students whose future may include university study. Students are expected to exercise independent and critical thinking as textual material is studied as a class, in groups, and individually. Formal writing is emphasized as a measure of student competency in writing and interpreting. Increasingly challenging material will be presented .

**ENGLISH LANGUAGE ARTS 123**

This course is designed for students whose immediate future plans do not include university. Emphasis is placed on clear communication, through both the written and spoken word. Students will continue their study of fiction and nonfiction texts. Guided assignments will provide opportunity for students to demonstrate their literacy skills.

**GRAPHIC NOVEL 120**

Graphic Novel 120 will provide a unique opportunity for learners to examine this complex genre of visual storytelling in depth. The course will study the graphic novel, including the evolution of visual storytelling, text structure, artistic voice, artistic devices, and impact on the audience. Learners will read, discuss, and design a variety of visual texts, culminating in a deeper understanding of the choices made in visual storytelling.

**JOURNALISM 120**

Journalism 120 is a flexible elective that develops concise, accurate writing and critical thinking through real-world applications. Students explore the journalist's role in documenting and narrating society, fostering an understanding of informed citizenship in a democracy. The course emphasizes inquiry, collaboration, critical analysis, persuasive writing, and news values.

**MEDIA STUDIES 120 \***

With increasing global connectedness, understanding media's role and power is more vital than ever. Media Studies 120 equips learners to navigate evolving media landscapes through critical inquiry and analysis. Centered

on media consumption and creation, the course explores contemporary issues on global and local scales while fostering skills as both critical media consumers and creators.

**READING TUTOR 120**

Students are selected for Reading Tutor based on maturity, attendance, English proficiency, and interpersonal skills, requiring completion of Grade 10 ELA Foundational and Extended. Tutors sign a contract outlining responsibilities and should be fluent readers with strong comprehension, open to feedback, and aware of their strengths as readers. The course covers literacy research, teaching strategies, and assessment, with tutors designing individualized literacy programs. Tutors also develop skills in critical thinking, collaboration, leadership, and communication, while maintaining reflective journals, check-ins, or observations for teachers.

**WRITING 110**

In Writing 110, learners will explore diverse writing modes and purposes for real audiences and personal expression. The writing process includes prewriting, drafting, revising, editing, and publishing, with individual progress varying by learner. While some pieces may go through all stages, this depends on the purpose. Assessment values both the process and the final product equally.

**ADDITIONAL LANGUAGE COURSES**

**FI LANGUAGE ARTS 10**

This course is specifically designed for grade 10 French Immersion students to further enhance and maintain their linguistics skills in the French language. Students will develop their proficiency in French through a variety of engaging activities, including meaningful conversation, analyzing authentic texts, composing written pieces, and listening to a wide range of audio materials. This course aims to evolve the proficiency level of students while deepening their understanding of the Francophone culture.

**FI LANGUAGE ARTS 110**

Students taking this course must have successfully completed Grade 10 FI Language Arts. This course is designed to maintain and further develop French linguistic skills by taking into consideration the four aspects of the language (reading, writing, listening, speaking). Oral participation is essential. There will be a complete study of one play.



## Mathematics

### **CALCULUS 120**

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

**Note:** *This course will benefit students interested in post-secondary programs in science, engineering, and mathematics, although it may not be an entrance requirement. Students should check requirements for the specific program and institution in which they are interested.*

**Prerequisites:** Pre-Calculus A 120 **AND** Pre-Calculus B 120

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

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

**Prerequisite:** Geometry, Measurement & Finance 10.

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

This is the second of two courses in the Financial and Workplace pathway designed for entry into post-secondary trades and technical programs or for direct entry into the workforce. Topics include measuring, sine and cosine laws, properties of polygons, transformations of 2-D and 3-D shapes, small business finance, linear relationships, data interpretation, and probability.

**Prerequisite:** Financial and Workplace Math 110 **OR** Foundations of Mathematics 110.

### **FOUNDATIONS OF MATHEMATICS 110**

This course is a pre-requisite for **Foundations of Mathematics 120** providing a pathway designed for entry into academic programs not requiring pre-calculus. It is also a pre-requisite for the **Pre-Calculus** pathway. Students develop logical reasoning skills and apply this to proofs and problems involving angles and triangles, the sine law, and the cosine law. Students model and solve problems involving systems of linear inequality in two variables and explore characteristics of quadratic functions. Financial applications are analyzed.

**Prerequisites:** Geometry, Measurement and Finance 10 **AND** Number, Relations, and Functions 10.

### **FOUNDATIONS OF MATHEMATICS 120**

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

**Prerequisite:** Foundations of Mathematics 110

### **GEOMETRY, MEASUREMENT & FINANCE 10 FI GEOMETRY, MEASUREMENT & FINANCE**

Geometry, Measurement and Finance 10 provides foundations for further study in geometry and measurement and develops financial literacy. Geometry, Measurement and Finance 10 is the final compulsive mathematics course in New Brunswick. Topics include Pythagorean Theorem; polygons; angles; trigonometric ratios; metric and imperial systems of measurement; surface area and volume; unit pricing; currency exchange; income (gross and net pay); credit cards; loans; interest.

### **NBCC SKILLED TRADES AND WORK-READY MATH 120 – Dual Credit with NBCC (MATH 1208)**

NBCC Skilled Trades and Work-Ready Math 120 gives students the opportunity to practice skills individually, to solve problems with others,

and to work on projects that incorporate mathematics. The intent of this course is that students become proficient with concepts in-context, so they can easily apply skills in workplace situations. Student should become familiar and proficient with the terms 'accuracy' and 'precision' and be able to determine what measuring tool is appropriate in various situations and will provide the required level of accuracy/precision. Lessons could also feature the opportunity to work with measurement tools such as a tape measure, metal ruler, micrometer, calipers, protractors, etc., in context. Imperial and S.I. units may be explored with a focus given to those most commonly found in the context of a post-secondary program or jobsite.

**Prerequisite:** Financial Workplace Math 110

### **NUMBERS, RELATIONS, & FUNCTIONS 10**

Number, Relations, and Functions 10 provides foundations for more complex mathematical reasoning and/or calculus and includes number properties, algebra, and functions. Learners will analyze numbers and model factoring; graph and describe relationships between variables; analyze functions; apply understanding of systems of linear equations to solve problems. Learners will enact and apply prior *Mathematics K-9* knowledge. This course develops pathways to further studies in mathematics and/or preparatory skills for calculus.

### **PRE-CALCULUS 110**

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

**Prerequisite:** Foundations 110

### **PRE-CALCULUS A 120**

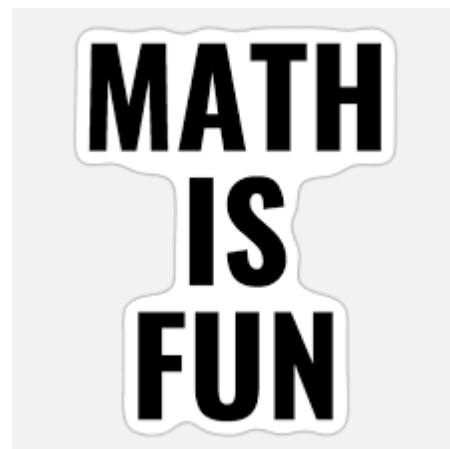
This course is a pre- or co-requisite for **Pre-Calculus B 120**. Students demonstrate and apply an understanding of the effects of horizontal and vertical translations, horizontal and vertical stretches, and reflections on graphs of functions and their related equations. They are introduced to inverses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

**Prerequisite:** Pre-Calculus 110

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

This course is a pre-requisite for **Calculus 120**. Students solve problems by analyzing arithmetic and geometric sequences and series, as well as by using permutation and combinations and operations on functions, including composition. They learn to factor polynomials of degree greater than 2, and to graph and analyze polynomial functions. Students also graph and analyze radical, reciprocal, and rational functions, building a function toolkit. Students are introduced to the concept of limits and determine the limit of a function at a point both graphically and analytically. They explore and analyze left and right-hand limits as  $x$  approaches a certain value using correct notation, analyze the continuity of a function and explore limits which involve infinity.

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



## Sciences

### **AGRICULTURE 110**

This course includes the history and evolution of agriculture in New Brunswick which recognizes Indigenous and settler contributions, everyday impacts on life in New Brunswick, and specific types of agriculture predominant in New Brunswick. Learners will apply knowledge of plants and animals to local contexts, to introductory plant growing and animal care research skills, this leads to creating quality agriculture products and/or operations.

### **AUTOMOTIVE ELECTRICAL SYSTEMS 120 \***

This course introduces the student to the theory and operation of automotive electrical systems. Students will study the principles of electricity, including electron theory, magnetism and electrical symbols. Course content progresses to components of the charging, ignition and starting systems. Study also includes engine management systems, scanning on-board computers and diagnostics. This course may be used as a science credit for graduation purposes.

### **BIOLOGY 112**

This course is geared to students who have an interest in nature and living things. Lab work and demonstrations will supplement classes. Topics covered are cell biology, classification, and a survey of the Kingdoms of life.

### **BIOLOGY 122**

**Recommended:** Biology 112 and Chemistry 112

This course is recommended for students who intend to study science at university. Topics covered include the reproductive system, mitosis & meiosis, genetics, the structure of DNA, DNA replication, protein synthesis, genetic engineering, and evolution.

### **CHEMISTRY 112**

**Highly Recommended:** Foundations of Mathematics 110 and Science for Sustainable Societies 10

This is an introductory course in chemistry. This course continues to build upon chemical concepts learned in grade 10. Students planning to take nursing, engineering, or science (pure and applied) should consider taking this course. Topics covered are atomic bonding, chemical reactions, mathematical calculations related to reactions and solutions.

### **CHEMISTRY 122**

**Highly Recommended:** Chemistry 112 AND Foundations of Mathematics 110  
Students planning on taking science, engineering or nursing should take this course. It is a continuation of Chemistry 112. Topics

covered include organic chemistry, chemical equilibrium, acid-base chemistry and energy changes.

### **ENVIRONMENTAL GEOSCIENCE 110**

The course provides a general introduction to physical geography and includes such topics as: The Earth as a rotating planet. Weather and Climate systems, Systems and Cycles of the solid Earth, Volcanoes, Tectonics, Landform Evolution, Soils, the Environment and the Biosphere. Note: This is a hands-on course that requires students to work independently in a field research setting (multiple field trips during the semester). This course is recommended to those who are planning on pursuing university or college programs in geology, forestry, civil engineering, urban or rural planning or any field related to the mining industry. We recommend that students have a strong showing in Science 10 as we will be covering topics related to both physics and chemistry.

### **ENVIRONMENTAL SCIENCE 120**

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

Students will:

1. Identify the impact of personal behaviours on the environment, and recognize that caring for and sustaining natural environments is an element of responsible global citizenship..
2. Analyze and propose solutions to current environmental issues through research, experimentation, and a presentation of their findings with respect to the issue.

**Note: Students must have a strong work ethic and be able to work on independent/group work.**

### **FORESTRY 110**

Forests and sustainable forest management have and will continue to play an essential role in the social, environmental, and economic well-being of the province. Forestry 110 will develop an appreciation and understanding of the societal values placed on forested ecosystems, how forests are managed to achieve these values, and the interactions between humans and forests.

### **HUMAN PHYSIOLOGY 110**

This course is designed to appeal to a wide range of learners, including students for whom this will serve as their science graduation requirement. The goal of this course is to build an understanding of the physiology of the human body. Throughout the course students

will build their scientific literacy skills as they learn more about the different body systems and how they relate to each other. With this knowledge, students will be challenged to identify a physiological limitation and create an innovative product to assist individuals with that limitation. By the end of the course students will have more in-depth knowledge about their body and have made a positive contribution to their community.

### **PHYSICS 112**

**Recommended:** Foundations of Mathematics 110 and Science for Sustainable Societies 10  
An introductory physics course designed for students intending to go to university or technical school following graduation. Topics include kinematics and dynamics in one dimension, momentum, work, energy and power, waves, light and sound.

### **PHYSICS 122**

**Highly Recommended:** Physics 112 **AND** Foundations of Mathematics 110  
Students planning to take science or engineering at university should take this course. It is a continuation of Physics 112. Topics covered include 2-dimensional kinematics and dynamics, circular motion, gravitation, electric and magnetic fields, static and current electricity. It is highly recommended to students who are considering taking this course that they have successfully completed Pre-Calculus /FI Pre-Calculus 110.

### **SCIENCE 10**

#### **FI SCIENCE 10**

This course will investigate the connections between matter and energy in systems. The approach of this course will provide the critical knowledge and skills required for upper-level high school courses, specifically chemistry, environmental science, and physics. General topics include safety, chemistry, nuclear energy, and static and current electricity. **This course is strongly recommended for those planning to take chemistry, physics, and environmental science in grade 11 and 12.**

***\*Courses with an asterisk may be used to fulfill the requirements for no more than one cluster.***



**Personalized  
Wellbeing –  
Creative  
Arts**

**CREATIVE ARTS 110**

This is an overview course designed for all learners who have an interest in the arts. It is designed to encourage students to develop skill through exposure to a variety of challenges and problems requiring creativity and higher order thinking. Students will be required to work both individually and collaboratively and are encouraged to design their learning in collaboration with teachers. Input and guidance from industry professionals and/or mentors is also encouraged. Students will be exposed to a wide range of media for purposes of analysis, application, historical research, and demonstration of understanding.

**DRAMATIC ARTS 110**

Dramatic Arts 110 is an introductory performance-based course designed to encourage students to develop their dramatic skills through exposure to a variety of challenges and opportunities that require creative and higher order thinking skills related to creativity, performance, and production. This course is highly participatory and requires consistent attendance to facilitate the development of collaborative projects and student engagement in new experiences. Students will be required to work individually, independently, in small groups, and in larger ensembles. Projects and research activities will be activity based experiential learning. Students will be exposed to a wide range of dramatic conventions and styles for the purposes of creating, analyzing, conducting research, and performing.

**DRAMATIC ARTS 120**

Dramatic Arts 120 is a course that assumes an enhanced level of theatrical experience. Successful completion of Dramatic Arts 110 is highly encouraged, but not required. In collaboration with their teacher and peers, students are encouraged to direct their learning and decide how to demonstrate the acquisition of skills. Students will be expected to have more involvement and ownership of their learning and subsequent assessment, collecting evidence of learning, and expanding upon the skills acquired in Dramatic Arts 110. Students may be required to work outside of the classroom (including individual/ensemble practice and studio rehearsal) due to the many and varied manifestations of theatre activities. Students are also strongly encouraged to participate in extracurricular and community-based opportunities. extracurricular and community-based

**GRAPHIC ART AND DESIGN 110**

Utilizing industry standard software (Photoshop and Illustrator), the Graphic Art and Design 110

course will give base skills in developing various projects. These software skills coupled with learning in design theory (typography, colour, composition), will allow for the development of unique layouts, logos, advertising, etc.

**MUSIC 10**

This course assumes no prior experience with a wind or percussion instrument and is suitable for a beginner on the instrument; whole-class instruction occurs so that students learn the particulars of their instrument while performing in a group setting. While performance is the focus of this course, students will also continue learning the language of music (music theory), history and appreciation, composition and analysis, and aural perception (ear training)

**MUSIC 112 (General Music:  
Piano/Guitar/Choral)**

This course is designed for the general level piano, guitar or choral student who can read music on his/her instrument and completed the grade 10 music course. Approximately 40% of the class time is spent on the further development of playing technique and performing a varied repertoire. The balance of the time is spent on theory and performance/composition-type projects.

**MUSIC 122 (Instrumental)**

This is a course designed for any student interested in advanced music studies. The course assumes an advanced level of music literacy, good aural skills, a sound theoretical background, knowledge of historical styles and forms, and an interest in improving upon and expanding these areas of music knowledge and expertise. Music 122 is a performance-based course designed to encourage students to develop their musical skills through exposure to a variety of musical challenges and problems requiring creative and higher order thinking skills.

**POPULAR MUSIC 120**

In Popular Music 120, learners will examine culture through the elements of music, instrumentation, the role of industry and promoters, artists, and writers. Additionally, learners will be expected to create and/or recreate music to demonstrate their understanding of specific characteristics of a particular genre. Differing from other music electives, Popular Music 120 performances focusing on process rather than product. This course will give learners a deeper understanding of musical genres and the development of social and cultural trends. People, regardless of race, gender, or geography, have always written

music about their social and cultural surroundings as well as historical events that influence their lives. Popular Music 120 will allow learners to investigate how global events shape popular music and how popular music has, in turn, influenced culture and society.

### **VISUAL ARTS 10**

This course builds on the skills and knowledge introduced in Grade Nine. The elements of design will be the focus using a variety of media: drawing, painting, pastels, sculpture, and printmaking. While being engaged in art activities, students learn more than art content and skills. As with any creative endeavour, many thought processes, learning strategies, and ways of expression are refined and transferred to other aspects of life. Like other art forms, visual art offers unique experiences from which a better understanding of the world can emerge.

### **VISUAL ARTS 110**

A prerequisite course for the Visual Arts 120 course, the Visual Arts 110 course moves towards a personal expression while receiving teacher mentoring in disciplines such as figure drawing, composition, and clay works, among others.

### **VISUAL ARTS 120**

Want to develop a mixed media and multidisciplinary portfolio? The Visual Arts 120 course allows you multiple options in four blocks of study: utilizing drawing, painting, design, and sculptural skill sets. Bring your unique conceptual ideas to life!

## Creative Arts



**Personalized Wellbeing – Wellness & Phys. Ed.**

**EARLY CHILDHOOD DEVELOPMENT 110**

Designed for students pursuing early childhood education or related fields, this course covers heredity, conception, prenatal development, childbirth, and child growth, with a focus on intelligence and attachment theories.

**HEALTH AND PHYSICAL EDUCATION 10**

This elective promotes physical activity for a healthy lifestyle. Activities include orienteering, softball, soccer, and more. Fitness units focus on weight training, flexibility, and nutrition. Evaluation is primarily participation-based.

**HEALTH CARE 110**

This course introduces students to Canada’s healthcare system, medical professions, and career pathways. Topics include healthcare roles, consumer rights, environmental and societal issues, and professional expectations within the field.

**INDIVIDUAL AND FAMILY WELLNESS 120**

Students will study personal and relational development, including topics like personality, relationships, love, family, sexuality, wellness, and aging. Ideal for those interested in sociology, psychology, teaching, and social work.

**INTRODUCTON TO KINESIOLOGY 120**

This course is for students planning to pursue kinesiology, science, or nursing at the university/college level. It combines academic content with engaging activities such as demonstrations, student presentations, guest speakers, and group work to enhance knowledge of kinesiology. Students will develop critical thinking, problem-solving, and technology skills. Topics include human anatomy, exercise science, recreation, sport studies, and careers in kinesiology.

**NUTRITION FOR HEALTHY LIVING 120**

This course explores healthy food choices, nutrition across the lifecycle, and social issues like food affluence and hunger. Focus areas include carbohydrates, fats, and proteins and their impact on daily food choices. Ideal for students pursuing careers in nutrition, dietetics, kinesiology, personal training, or those looking to improve their knowledge of healthy living and fitness.

**OUTDOOR EDUCATION 110**

This course focuses on developing outdoor recreation skills while emphasizing environmental ethics. Students will participate in several outings, including half-day, full-day, and a mandatory overnight camping trip. Activities may include hiking, canoeing, rock climbing, and

swimming, with safety as a priority. Students will plan, lead, and evaluate outings. Admission is based on attendance, worth ethic, and the ability to work independently.

**PSYCHOLOGY 110**

An introduction to psychology as a science that explores how we think, feel, and act. Topics include careers in psychology, research methods, culture and gender, sleep, dreams, hypnosis, and disorders like schizophrenia. Ideal for students interested in psychology or understanding human behaviour.

**PSYCHOLOGY 120**

A continuation of Psychology 110, this course examines motivation, emotion, personality development, learning, memory, intelligence, stress, health, social relations, and treatments for disorders.

**Recommended:** Psychology 110

**SPORT & RECREATION LEADERSHIP 120**

This course develops leadership skills through sport and recreational activities. Students will take on roles such as leader and mentor, focusing on team dynamics, planning, performance, evaluation, and reflection.

**WELLNESS PHYS ED 110**

This course helps grade 11 and 12 students develop decision-making skills for personal wellness through physical activity. The course includes 40% theory in the classroom and 60% practical work in active settings, promoting awareness of a healthy, active lifestyle.

**YOGA 110**

This course explores the physical and mental aspects of yoga, focusing on strength, flexibility, endurance, balance, breath regulations, and mental focus. Activities include physical practice, personal reflection, partner assessments, group discussions, and classroom theory (40%). Topics include the history of yoga, nutrition essentials, and ethical principles like kindness and respect. Yoga promotes mental health, fitness, and personal growth.



### **SCHOOL-TO-WORK TRANSITION COURSES**

The following school-to-work transition courses feature an experiential component often referred to as a work or Co-op placement. In addition to course content students will gain hands-on experience in a field that they may be interested in pursuing. Students must complete the minimum hours required at the workplace to qualify for the credit. Students will complete a second mandatory project and presentation instead of a final examination.

Acceptance in these courses is based on an application, attendance, recommendations and an interview. **Applications must be submitted no later than May 15** and are available in the Guidance Office. A code of conduct will be signed by all students. Not meeting the expectations outlined in the code of conduct will result in a referral to NHS Administration and possible removal from the course and loss of credits.

#### **Career Pathway Mentorship 120 FI Career Pathway Mentorship 120 (8 or 12 credit hours)**

Students may explore any career field (based on availability in our community) for three hours each school day. After the mandatory in-class component is completed, students gain experience in the desired career field for three hours each day for the remainder of the semester.

#### **Career Pathway Mentorship (EARLY CHILDHOOD) 120 (8 or 12 credit hours)**

Students will work in a licensed childcare center and complete the Early Childhood 90-hour online course. You will also spend time working with a childcare expert to complete the online components of the program. You will **earn credits toward graduation** in Co-op Education 120 and in Early Childhood Services 110 or 120; depending on how you want to earn credits. You will also earn the **Early Childhood Certificate** that shows you are ready to work in any licensed childcare center in the province.

#### **Career Pathway Mentorship (LONG TERM CARE) 120 (12 credit hours)**

Students will work at a licensed long-term care facility with seniors and other individuals needing long-term care where you will complete classroom and practical training with students from across the province. You will **earn credits towards graduation** in Co-op Education 120 and Health Care 110. You will also receive **employment ready recognition** from the care facilities involved in the program. This means that students successfully completing the program will be eligible for a follow-up

preceptorship (96-hour placement) and possible employment with these centers.

#### **Career Pathway Mentorship 120**

This program is designed to encourage students to explore job opportunities in Skilled Trades fields such as automotive, construction, culinary, etc. This program is open only to students who have successfully completed at least two grade 11 or 12 elective courses related to a specific trade. Students who complete a Co-op placement with a licensed journeyman will be able to use the Co-op work placement hours towards their trade certification (up to 720 throughout their high school years).

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

This course is designed to help students prepare to live on their own. In this course, students will learn organization, time management, and communication skills such as goal setting, financial literacy, housing options, consumerism, healthy lifestyle, and positive mental health strategies. Students will explore habits and behaviours that will enhance their success in life.

#### **DEVELOP & LEAD 110**

The vision for this course is to have learners discover, explore, and reflect on leadership. In Develop and Lead 110, learners will have the opportunity to plan, organize, and administer projects within their schools and communities. Regardless of their comfort level or previous experience, learners will develop leadership potential in a safe and inclusive space. Learners will explore various roles in group dynamics, including being a leader, collaborating with others, and contributing positively to learning experiences. This course facilitates leadership experiences by capitalizing on and creating opportunities for learners to act as change agents and facilitate growth. Learners will build rapport with peers, gain valuable understanding of group dynamics through practice, and connect with service providers and community members. Participation in Develop and Lead 110 results in a journey in which learners can create a positive legacy in their school and community. Students will be expected to be involved in school based and community-based project work through volunteerism.

#### **Skills for Success 120**

This course is designed to help students prepare to live on their own. In this course, students will learn organization, time management and communication skills such as goal setting, financial literacy, housing options, healthy lifestyle and positive mental health leading to success in life

Personalized Wellbeing – Career Connected – Information & Communication Technology

### COMPUTER SCIENCE 110 (FIT--see page 4)

This is an introductory course in structured programming in VISUAL BASIC language. The theory component is limited to programming applications. Topics include entering data, decision making, loops, one- and two-dimensional arrays, sorting, subroutines, main menu programs, library functions, and string manipulation. Students selecting this course should have good mathematics skills. Students use the computer as a problem-solving tool and will find this course of value in future studies or careers in engineering, business administration, technology and science.

### COMPUTER SCIENCE 120

This course will include a study of high-level languages (mostly JAVA). Advanced concepts and procedures are presented to provide a more comprehensive understanding of computer usage and applications. This is a desirable course for students intending to follow a computer science or data analysis program at a post-secondary institution.

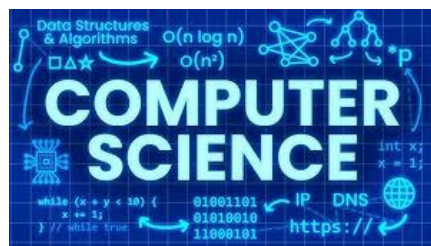
**Recommended:** Computer Science 110

### CYBERSECURITY & TECH SUPPORT 110 (FIT--see page 4)

This course provides comprehensive instruction in the cybersecurity and maintenance and repair of computers and peripheral devices, hardware, software, operating systems, networking, and printers. The CISCO Systems IT Essentials curriculum and hands-on activities will give students practical skills to provide basic technical support at the school. Students having successfully completed all required objectives have the option of writing the A+ Certification exams at their own expense.

### DIGITAL PRODUCTION 120 \* (FIT--see page 4)

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



Personalized  
Wellbeing –  
Career  
Connected –  
Occupational

### **BUSINESS MANAGEMENT 120**

**(FIT--see page 4)**

This is an introductory course in business organization, operation, and management. The understanding of business operations as practiced in Canada is a major objective of the course. The main areas of study include legal forms of ownership, marketing, personal and corporate finance, ethics, advances in information technology, understanding the stock market, and labour management relations.

### **EARLY CHILDHOOD SERVICES 110**

Exploring child development from infancy to 6 years old, topics include types of early childhood programs, assessment, curriculum, and qualities of an early childhood worker. Daycare and kindergarten guidelines are examined. Students will plan lessons to teach children ages 4-6 and design a daycare center. Students will make arrangements to do daycare/kindergarten observations.

### **ENTREPRENEURSHIP 110**

**(FIT--see page 4)**

An exploratory course for students interested in the world of small business, this course is designed to involve students in the development of ideas and skills necessary to bring business ideas to the marketplace. It allows students to see themselves as business people and appreciate the wide range of opportunities available to creators of an idea, owner-operator of a business, or employer-manager of a small business in today's global economy. There is a written business plan component and several in class presentation.

### **FASHION TECHNOLOGY AND DESIGN 110 \***

Designed to introduce students to careers in the fashion industry, the course is project based, hands on, and skill oriented. Students will examine the world of textiles, their production process, and learn to identify various fibers and fabrics. Through a variety of small projects, including a sample portfolio and the creation of a personal garment, students will learn to follow commercial patterns and apply current construction techniques using both a sewing machine and a serger. Prior sewing experience is NOT required.

### **FINANCIAL ACCOUNTING 120**

Introduces students to procedures, concepts and applications of accounting. Topics covered include the nature of business, accounting, bookkeeping procedures, accounting theory, and the entire accounting cycle, as well as various forms of business enterprises such as sole proprietorships, partnerships and

corporations. This course is ideal for students in business at a post-secondary institution.

### **HOSPITALITY AND TOURISM 110**

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

### **HOUSING AND DESIGN 120**

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

### **MARKETING 120**

Designed to introduce students to many of the marketing functions and activities that occur within the Canadian marketplace. Areas of focus include marketing strategies, product development and branding, and advertising. A portion of the course will involve self-directed learning whereby the students will demonstrate their understanding of the material through project work.

***\*Courses with an asterisk may be used to fulfill the requirements for no more than one cluster.***



**NOTE: Students who achieve a mark of greater than 70% in a skilled trades course will be credited with 80 hours towards their trade certification up to a total of 720 hours over their high school career.**

#### **AUTOMOTIVE ELECTRICAL SYSTEMS 120 \***

This course introduces the student to the theory and operation of automotive electrical systems. Students will study the principles of electricity, including electron theory, magnetism and electrical symbols. Course content progresses to components of the charging, ignition and starting systems. Study also includes engine management systems, scanning on-board computers and diagnostics. **This course may be used as a science credit for graduation purposes.**

#### **CULINARY TECHNOLOGY 110**

The Culinary Technology program is designed to prepare students for employment and/or future education in the food service industry.

This technology driven and hands on skill-oriented program involves not only the how and why of food service preparation but focuses on the development of personal skills and food knowledge that can be applied to the food service industry. Food Safety Training and food security issues will also be explored.

This course has an emphasis on bakeries, baked goods, breads, and breakfast food preparation and production for an actual restaurant environment.

#### **CULINARY TECHNOLOGY 120**

The Culinary Technology Program is designed to prepare students for employment and/or future education in the food service industry.

This technology driven and hands on skill-oriented program involves not only the how and why of food service preparation but focuses on the development of personal skills and food knowledge that can be applied to the food service industry. Food Safety Training and Food security issues will also be explored.

This course has an emphasis on food and meal preparation and production for an actual restaurant environment.

#### **ELECTRICAL WIRING (RESIDENTIAL) 110**

Students in this course will study the basic tools, materials and techniques used in residential wiring. Study includes the design and placement of circuits in a model family dwelling, according to the Canadian Electrical Code. The course will be of interest to students interested in exploring careers related to the electrical trade.

#### **FRAMING AND SHEATHING 110**

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

#### **INTERNAL COMBUSTION ENGINES 110**

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

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

This course introduces students to a variety of careers in trades. It provides opportunities to explore and research practices and skills required for employment in trades/technology sectors. This course utilizes small group instruction, placing an emphasis on student directed learning and is structured to reflect the reality of work. Problem identification, teamwork and leadership skill are reinforced.

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

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

#### **METALS FABRICATION (WELDING) 120**

Metal Fabrication / Welding 120 introduces students to advanced skills and practices, building upon the theory and practical skills obtained in Metal Fabrication / Welding 110. This advanced course encapsulates and reinforces theory in Math, SMAW, GMAW, PAW, OFC, all of which lead to a capstone project. Students will learn valuable safety procedures, tool skills, and engage with the NB global competencies.

**Prerequisite:** Metal Fabrication (Welding) 110



**Other  
Electives**

**PERSONAL INTEREST 1  
PERSONAL INTEREST 2**

Designed for grade 11 or 12 students, the one credit Personal Interest course will appeal to those interested in a self-directed exploration of a topic or subject of their own choosing. Students selecting this course are provided with the time and opportunity, to develop and pursue personal interests. Students will be required to design the program of study in conjunction with their teacher(s), and/or other mentors in the school or community. Students must follow safety guidelines and review and follow policies related to their projects. Students will need a high degree of independence and in their application must identify learning outcomes that are based on the New Brunswick Global Competencies. **Application required. Deadline May 15, 2026**

**DISTANCE EDUCATION (ONLINE)**  
New Brunswick Virtual Learning Centre (NBVLC) offers expanded learning opportunities to all high school students in the province by allowing registered students to access courses online, anywhere, anytime. Course offerings currently consist of over 40 high school courses, including all required courses at the grades 11 and 12 levels as well as many optional and advanced level courses. This allows students to access courses that, because of scheduling conflicts, illness or limited course availability in their own schools, might not otherwise be available to them.  
**Application Required. Deadline May 15, 2026**



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