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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 ultimately 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 11 and 12 courses. The class of 2020: Graduation Requirement Template should be used as a reference. Please note that all grade 10 courses are required for graduation and are prerequisites for most grade 11 courses.

## Choosing Courses:

Each spring, students select courses for the following academic year. There is a wide variety of courses from which to choose in grades 11 and 12, and a number of factors 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. Additional information may be obtained through the FHS Guidance Department.

## Course Load:

Students are required to take a full course load each semester. **All students must attempt 20 credits and complete four semesters in order to be eligible for graduation.** 17 of 20 credits are required for graduation. A student needing an additional semester past the grade 12 year may take the minimum number of courses to complete graduation requirements.

## 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: Parenting 110, Native Studies 120

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

ex: Music 112, Biology 122

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

ex: Modern History 113, English 123

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

ex: French 111, Physics 121

**Advanced Placement (AP) courses** give students the chance to experience university level work in high school. These courses provide preparation for writing the AP Exams in May.

## Pre-requisites:

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

## Course Fees:

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

## Timetables:

Timetables are computer-generated and therefore courses fall by chance into either semester. Some listed courses may be dropped due to insufficient enrollment. For senior students, certain courses required for university and college 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 11 and 12 courses and final marks are permanently recorded on a student's transcript. The school transcript provides an ongoing record of high school courses taken and marks obtained. It is the official document required by post-secondary institutions to verify a student's academic record.

## Transfer Students:

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

## Contact Info:

Fredericton High School  
300 Priestman Street  
Fredericton, NB  
E3B 6J8

Phone: (506) 453-5435  
Fax: (506) 453-3050  
<http://frederictonhigh.nbed.nb.ca>

# 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 5 FI courses in Grade 10, and a total combination of 5 FI courses 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 a 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 Organization & Management 120
- Entrepreneurship 110

#### **Software Design & Development**

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

#### **Network & System Operations**

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

#### **Interactive Media**

- Information Technology 120
- Business Organization & 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. In order to qualify the experience must be in an approved, appropriate IT-related workplace.

## INTERNATIONAL STUDIES CERTIFICATE PROGRAM

Through the International Certificate Program, high school students can become informed, engaged and active global citizens who learn about themselves by learning about the world. Participants earn the certificate by: studying an international language, taking internationally-focused classes, understanding global issues and by participating in an internationally focused project of their choice.

*Students who would like more information on the ICP can pick up a pamphlet from the Guidance Office or the Social Studies Department Head.*

# CLASS OF 2020: GRADUATION REQUIREMENTS

## YEAR 10 COURSES COMPLETED

- |   |  |
|---|--|
| _____ FI / Math 10 GMF & _____ NRF<br>_____ English 10<br>_____ FI / Social Studies 10<br>_____ FI / Science 10 | _____ PIF 10/FI Language Arts 10<br>_____ Personal Development 10<br>_____ Art 10 or Music 10<br>_____ Other grade 10 elective |
|---|--|

## YEAR 11 & 12 – COMPULSORY (7)

- \_\_\_\_\_ ENGLISH 111, 112, or 113 (2 Credits)
- \_\_\_\_\_ ENGLISH 121, 122 or 123
- \_\_\_\_\_ MATH Foundations of Math 110 (academic) or Financial & Workplace Math 110
- \_\_\_\_\_ SCIENCE (one course) from any of:  
 Automotive Electrical Systems 120, Biology, Chemistry, Human Physiology 110, Introduction to Electronics 110, Introduction to Environmental Science 120, Physical Geography 110, Physics, Robotics & Automated Technology 120
- \_\_\_\_\_ MODERN HISTORY 111, 112, or 113
- \_\_\_\_\_ FINE ARTS/LIFE ROLE DEVELOPMENT (one credit) from any of:  
 Career Exploration 110, Co-operative Education 120, Digital Media Production Co-op 120, Entrepreneurship 110, Fine Arts 110, Graphic Art & Design 110, Individual & Family Dynamics 120, Music 111/112/122/120, Nutrition for Healthy Living 120, Outdoor Pursuits 110, PCMT Co-op 120, Physical Education Leadership 120, Reading Tutor 120, Skilled Trades Co-op 120, Theatre Arts 120, Wellness Phys Ed 110, Visual Arts 110/120

## YEAR 11 & 12 – ELECTIVES (10)

- |           |  |
|-----------|--|
| 8. _____  | 15. _____                                |
| 9. _____  | <b>Local Options or other electives:</b> |
| 10. _____ | 16. _____                                |
| 11. _____ | 17. _____                                |
| 12. _____ | 18. _____                                |
| 13. _____ | 19. _____                                |
| 14. _____ | 20. _____                                |

## ADDITIONAL NOTES

1. Seventeen (17) grade 11 and 12 credits, including the seven (7) compulsory courses, are required for graduation. **(Only two local options and up to five Co-op courses may be used for the 17 required graduation credits.)**
2. Five (5) grade 12 credits including English 12 are required for graduation.
3. Grade 9 English Language Proficiency Assessment is a requirement for graduation.

**NOTE: The pass mark for all courses is 60%.**

# COURSE PLANNING GUIDE

## Grade 11

1. English 11 (This is a year-long course worth two credits: Refer to page 4)  
\_\_\_\_\_
2. Math 11 (refer to page 4)  
\_\_\_\_\_
3. History 11 (refer to page 4)  
\_\_\_\_\_
4. Science (refer to list on page 4)  
\_\_\_\_\_
5. Fine Arts/Life Role Development (refer to list on page 4)  
\_\_\_\_\_
6.  
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7.  
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8.  
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9.  
\_\_\_\_\_

## Grade 12

1. English 12 (1 credit)  
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2.  
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3.  
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9.  
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10.  
\_\_\_\_\_

**NOTE: One Science and one Fine Arts/Life Role Development must be taken in grade 11 OR grade 12. These are listed on page 4. Seventeen out of twenty credits are required for graduation. Only two local options may be used for the 17 required graduation credits. (See list below.)**

### Local Option Electives

Aboriginal Art 110	Geometry 120	Math Tutor 120
Advanced Computer Aided Drafting 120	Gender, Media & Culture 120	Oceanography 120
Advanced Keyboarding 110	Graphic Art & Design 120 <i>grandfathered</i>	Parenting 110
Conceptual Physics 110	Independent Living 110 <i>grandfathered</i>	Psychology 110
Early Childhood Services 120 <i>grandfathered</i>	Intro to Kinesiology 120	Psychology 120
FI Tech de Communication 110	Maintenance Auto 110	Recording & Sound Design 120
FI Tech de Communication 120	Mandarin 120	Yoga 110
FI World Geography 120 <i>grandfathered</i>	Marketing 120	

**How many local options may I have? If you are graduating with:**

**20 credits:** up to 5 local options      **19 credits:** 4 local options      **18 credits:** 3 local options      **17 credits:** 2 local options

**\*Wise Tip:** Do not take any more than 2 local options in Grade 11 just in case.

**Note:** A student does not need to take any local options if they do not want to.

## Applied Technology

**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.

**Prerequisite:** Internal Combustion Eng. 110

### **(CARE AND) MAINTENANCE AUTO 110 (Local Option, see page 5)**

This course is intended to introduce new and prospective drivers to the basic operation of automobile fuel, electrical, lubrication, tires, exhaust, and cooling systems. Students learn repair and maintenance procedures typically performed by car owners and enthusiasts in a well-equipped shop. ***This course cannot be taken by students who are taking other automotive courses.***

**Prerequisite:** None

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

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

**Prerequisite:** None

### **ADVANCED COMPUTER AIDED DRAFTING 120 (Local Option, see page 5)**

This course will emphasize mechanical engineering drawing standards and techniques. Students will expand their knowledge of the construction and specification of machine parts through the creation of technical drawings. The course will benefit students planning to attend post-secondary engineering and technology programs.

**Prerequisite:** None

### **CULINARY TECHNOLOGY 110 AND 120 BLOCK (FUTURE CHEF'S CAFÉ) (2 credits)**

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 industry. Food Safety Training and food security issues will also be explored.

Culinary Technology 110 has an emphasis on bakeries, baked goods, breads, and breakfast foods.

Culinary Technology 120 has an emphasis on food and meal preparation in an actual restaurant environment.

Students in the Block course (2 credits) will participate in an enriched program that runs an actual restaurant, "The Future Chef's Café". Students will work in all areas of restaurant preparation, service management, and operation.

Space in the program is limited and entrance will depend upon enrolment numbers and complete applications.

**\*\*\*Students wishing to take Culinary Courses must fill out an application, available from Guidance, or Ms. Wood in the Future Chef's Café, room D25.\*\*\***

**Prerequisite:** None

### **CULINARY TECHNOLOGY 110 (1 credit)**

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.

Students choosing the single credit 110 course will learn how to produce baked goods and breakfast food for sale in the Future Chef's Café and other venues.

Culinary Technology 110 has an emphasis on bakeries, baked goods, breads, and breakfast food preparation and production for an actual restaurant environment.

**Prerequisite:** None

### **CULINARY TECHNOLOGY 120 (1 credit)**

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

## **Applied Technology Continued**

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.

Culinary Technology 120 has an emphasis on food and meal preparation and production for an actual restaurant environment.

**Prerequisite:** None

### **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.

**Lab Fee: \$5.00**

**Prerequisite:** None

### **HOUSING AND DESIGN 120**

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

**Lab Fee: \$5.00**

**Prerequisite:** None

### **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.

**Prerequisite:** None

### **INTRODUCTION TO ELECTRONICS 110**

The basics of electronic theory and components of electronic devices are the subjects of this course. Students learn through a series of lab activities including many types of Direct Current circuit construction. This course will be of interest to students exploring career opportunities in many skilled trades and also

those interested in many Engineering and technology disciplines. This course may be used as a Science credit for graduation purposes.

**Recommended but not required:** Successful completion of Grade 10 Math.

### **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.

**Lab Fee: \$20.00**

**Prerequisite:** None

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

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

**Lab Fee: \$20.00**

**Prerequisite:** None

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

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

**Lab Fee: \$25.00**

**Prerequisite:** None

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

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

**Prerequisite:** None

**Applied  
Technology  
Continued**

**RESIDENTIAL ELECTRICAL WIRING 110  
(HOUSE WIRING)**

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.

**Prerequisite:** None

**RESIDENTIAL FINISH 120**

This advanced building construction course focuses on the acquisition of skills and knowledge associated with the completion of a modern wood frame residential building. Students work with lab based projects to select and install insulation, wall and ceiling cladding as well as finish trim, doors and windows.

**Lab Fee: \$15.00**

**Prerequisite:** None

**ROBOTICS AND TECHNOLOGY 120**

This course explores the field of robotics and industrial automation. Through experimentation and simulation labs, students explore computer programming and construct functional examples which integrate pneumatic, electrical, mechanical and computer-controlled devices to mimic real-world machines. Along the way, students develop their technological design, communication and problem solving skills. This course would be of interest to student exploring career opportunities in processing, manufacturing, engineering, or industrial controls. This course may be used as a Science credit for graduation purposes.

**Prerequisite:** None

**TUNE-UP AND EMISSION 120**

This advanced automotive course includes the study of automobile fuel and emission systems. Students will study the component functions and service procedures of modern fuel injection, turbo chargers, super chargers and emission systems and how these affect fuel mileage, power and the environment. Students will use various diagnostic tools to read and understand information from vehicle computers, sensors and trouble codes. Hybrid and zero emission vehicles will also be studied. This course would be of interest to students entering the automotive, aircraft or marine service industries.

**Prerequisite:** Internal Combustion Engines 110  
**OR** Automotive Electrical Systems 120



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

The following school-to-work transition courses feature an experiential component often referred to as a work placement or a Co-op placement. In addition to course content students will gain hands-on experience in a field that they may be interested in pursuing after high school. Students must complete the minimum of hours required at the workplace to be able to qualify for the credit. Students will complete a second mandatory project and presentation instead of a final examination. **Only 5 co-op credits may be used towards graduation.**

Acceptance in these courses is based on an application, transcript to support desired career, attendance, recommendations and an interview. **Applications must be submitted no later than the last week of April** 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 FHS Administration and possible removal from the course and loss of credits.

**NOTE: Any school-to-work transition courses will qualify for the Fine Arts/Life Role Development credit.**

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### **CAREER EXPLORATION 110 (2 credits) See page 4**

This course is aimed at offering students the opportunity to explore their personal potential and learn about career pathways of interest. After the initial in-class skills component, students will spend two hours in a workplace developing skills that will assist them in preparing for the future.

**Note: Fine Art/Life Role Development credit**  
**Prerequisite:** None

### **CO-OPERATIVE EDUCATION 120 FI CO-OPERATIVE EDUCATION 120 (3 credits) See page 4**

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.

If the work component is completed with a placement that can offer the experience primarily in the French Language, students would be granted **two out of the three credits towards the F.I. Certificate.**

**Note: Fine Art/Life Role Development credit**  
**Prerequisite:** None

### **SKILLED TRADES CO-OP 120 (3 credits) See page 4**

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).

**Note: Fine Art/Life Role Development credit**  
**Prerequisite:** None

### **DIGITAL MEDIA PRODUCTION CO-OP 120 (1 credits) See page 4**

The morning announcements are a vital part of a school's communication plan. Those selected to take part in this program will be responsible for the collection and delivery of the school's daily announcements. As well students will be responsible for a variety of side projects related to film and video editing. While working in the studio, students will be learning how to use professional video editing and motion graphics software, as well as learning about audio engineering and lighting.

**Note: Fine Art/Life Role Development credit**  
**Prerequisite:** None

### **PCMT CO-OP 120 (1 or 2 credits) See page 4**

Personal Computer Maintenance & Troubleshooting qualifies as an on-site Co-op credit with an emphasis on providing computer support for FHS. Students disassemble and assemble computers, provide service and repair of hardware, complete software upgrades, add computers to the FHS computer labs and troubleshoot individual systems. Students who excel in the course may return for a second credit with exposure to more difficult tasks and team management. An interest in computers and teacher recommendations are required.

**Note: Fine Art/Life Role Development credit**  
**Prerequisite:** None

### **ADVANCED KEYBOARDING 110 (Local Option, see page 5)**

This course will assist students in developing a touch keyboarding skill and the ability to format in *Microsoft Word*. Students will learn to format personal business letters, cover letters, résumés, tables, and long reports. This course will be beneficial to students who plan to pursue a career in a computer-related field or who plan to attend post-secondary institutions requiring formal assignments. In our computer-based society this is a life skill.

**Prerequisite:** None

**Business,  
Technology,  
and Family  
Studies**

**BUSINESS ORGANIZATION AND  
MANAGEMENT 120  
(FIT--see page 3)**

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.

**Prerequisite:** None

**CHILD STUDIES 120**

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

**Prerequisite:** None

**COMPUTER SCIENCE 110  
(FIT--see page 3)**

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.

**Prerequisite:** None

**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 but not required:** Computer Science 110

**DIGITAL PRODUCTION 120  
(FIT--see page 3)**

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.

**Prerequisite:** None

**EARLY CHILDHOOD SERVICES 110**

This course explores child development principles from infancy to 6 years old. Topics include types of early childhood programs, assessment, curriculum, and qualities of an early childhood worker. Daycare/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.

**Prerequisite:** None

**ENTREPRENEURSHIP 110  
(FIT--see page 3)**

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

**Note:** *Fine Art/Life Role Development credit*  
**Prerequisite:** None

**FASHION TECHNOLOGY 110 AND FASHION  
DESIGN 120 BLOCK (2 credits)**

The Fashion Technology and Design Program is designed to prepare students for employment and/or future education in the fashion industry. The course is project based, hands on, and skill oriented. Prior sewing experience is NOT required.

Fashion Technology 110: Students will examine the world of textiles, their production process, and various fibers and fabrics. Students follow commercial patterns and apply current construction techniques using both a sewing machine and a serger to create a variety of items.

Fashion Design 120: After mastering the basics of construction, students will develop sketching techniques to create fashion illustrations, learn the essentials of pattern drafting, put together a design portfolio, and create their own mini-fashion line including a basic accessory.

**Business,  
Technology,  
and Family  
Studies  
Continued**

Students in the Block course (2 credits) will participate in an enriched program that works toward showcasing their mini-lines in a fashion show at the end of the semester (models will be provided).

**Lab Fee: \$15.00 plus cost of project supplies**

**Prerequisite:** None

**ACCOUNTING 120**

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

**Lab fee: \$10.00 for required workbook.**

**Prerequisite:** None

**FASHION TECHNOLOGY 110**

This course is designed to introduce students to possible 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. This course is a prerequisite for Fashion Designed 120.

**Lab fee: \$10.00 plus cost of project supplies**

**Prerequisite:** None

**FASHION DESIGN 120**

This course is designed to give students the opportunity to create, learn, and explore in the field of fashion design. In addition to theory, students will work hands on with a variety of technologies to design and create their own mini collection including a basic accessory. Students will develop sketching techniques to create fashion illustrations, learn the basics of pattern drafting, put together a design portfolio, and learn about fashion promoting and marketing. Basic sewing will NOT be taught.

**Lab fee: \$10.00 plus cost of project supplies**

**Prerequisite:** Fashion Technology 110 OR demonstration of basic sewing techniques and knowledge of commercial patterns

**GROWTH, GOALS & GRIT 120 (formerly  
Independent Living 110)**

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.

Students will explore habits and behaviours that will enhance their success in life.

**Prerequisite:** None

**HOSPITALITY AND TOURISM 110**

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

**Prerequisite:** None

**INDIVIDUAL AND FAMILY DYNAMICS 120**

Students will explore their own personal development through the study of themselves and their relationships with others. Topics such as personality development, relationships, dating, love, marriage and family, sexuality, reproductive systems, birth control and sexually transmitted diseases, wellness and aging, will be studied. This course is an excellent introduction to studies in sociology, psychology, teaching, social work and family life education.

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

**Prerequisite:** None

**INFORMATION TECHNOLOGY 120  
(FIT--see page 3)**

The objective of the IT120 course is to prepare students with the advanced skills required to be successful on the exams for Microsoft certification using Microsoft desktop software. Microsoft exams provide a reliable measure of a person's technical proficiency and expertise by evaluating her/his overall comprehension of Microsoft Office software, and the ability to use advanced features along with the ability to integrate Office programs with other software.

These skills will be of use to students in their post-secondary pursuits. Topics include Microsoft Word, PowerPoint, Excel and Outlook.

**Prerequisite:** None

**MARKETING 120 (Local Option, see page 5)**

This course is designed to introduce students to many of the marketing functions and activities that occur within the Canadian marketplace.

Areas of focus include marketing strategies,

**Business,  
Technology,  
and Family  
Studies  
Continued**

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.

**Prerequisite:** None

**PARENTING 110 (Local option, see page 5)**

One of the most important and demanding jobs is to be a parent. This course is designed to help students understand the challenges of parenting. Students will gain insight into childhood from a parental perspective. Topics include parenting styles, discipline, parental stress, children's self-esteem, health and nutrition. Practical component: Flour Baby Project

**Prerequisite:** None

**TECH SUPPORT 110  
(FIT--see page 3)**

This course provides comprehensive instruction in the 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.

**Prerequisite:** None

**CANCELLED**

## English

English Language Arts courses are skill-based programs of study that focus on three main areas of development: speaking and listening, reading and interpreting, writing and representing. Through the high school years, students will develop an awareness of how language works in a wide range of genres and will develop flexibility in using language.

**NOTE:** Grade 11 English courses are full year courses; students will remain in their selected level for the duration of the course, unless the student and teacher agree that an alternate placement is required.

**NOTE:** In compulsory English courses students are asked to pay a viewing fee to help defray the cost of drama performances and enrichment.

**Viewing Fee: \$5.00**

### **ENGLISH LANGUAGE ARTS 111 (2 credits--full year)**

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

**Prerequisite:** English 10

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

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

**Prerequisite:** English 10

### **ENGLISH LANGUAGE ARTS 113 (2 credits--full year)**

This course is designed for students whose immediate future plans do not include university. The areas of study focus on practical reading, writing, and speaking skills. A collaborative film-making unit provides opportunity for students to share their stories and ask questions about the world. Most work is done in class and valuation includes teacher-student conferences.

**Prerequisite:** English 10

### **ENGLISH LANGUAGE ARTS 121 (1 credit)**

This advanced level course is designed for students who excelled in English 111/112. It provides opportunity for the student to appreciate, experience, and interpret literature

through group discussion and an application of literary theory and criticism. Class members are expected to contribute to guided discussions and are urged to develop an independent and critical understanding of material (print, visual, and audio). A semester project allows students to showcase their literacy skills.

**Prerequisite:** English 111/112

### **ENGLISH LANGUAGE ARTS 122 (1 credit)**

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

**Prerequisite:** English 111/112

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

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

**Prerequisite:** English 113

### **GENDER, MEDIA AND CULTURE 120 (Local Option, see page 5)**

Enables students to explore the social construction of gender through an analysis of a range of gender equity issues in both Canadian and global contexts. GMC120 is designed to welcome and celebrate students of all academic ranges and gender diversity. It will operate as a safe space for all genders.

**Prerequisite: None**

### **JOURNALISM 120**

Journalism 120 is an elective course that is flexible enough to accommodate students with a wide range of interests and abilities. This course will develop student expertise in concise and accurate writing while providing opportunities to practise critical thinking, writing and representing skills in a variety of real-world situations. The course emphasizes the role of a journalist to bear witness, to document, and to provide a narrative of the daily life of a society and the world. Students will think critically, work cooperatively and collaboratively, discuss and deconstruct relevant issues, research, write

**English  
Continued**

persuasively, understand news values, and publish in specific journalistic formats.

**Prerequisite:** None

**MEDIA STUDIES 120**

Media Studies 120 is an elective course that is flexible enough to accommodate students with a wide range of interests and abilities. This course is designed to help students become media literate and understand the impact of mass media on society. It explores texts such as films and television shows, songs and advertisements, sports and games, packaging and clothing, online and offline information sources, blogs and social networking sites. Students will develop the skills needed to respond to these texts intelligently and responsibly when they encounter them. Those enrolling Media Studies should demonstrate a desire to view, listen, speak, read, write, create, and represent.

**Prerequisite:** None

**READING TUTOR 120**

This course presents a unique opportunity for students with good academic achievement, excellent attendance and good communication skills. Under the guidance of the instructor, tutors work on a one-to-one basis with students who are seeking to raise their reading level and to improve their writing skills. Tutors learn basic reading theory and teaching techniques, and are assigned one student to work with for the term. A real commitment is required (in attendance and day by day planning), since the student depends on the tutor. This is a chance to make a positive contribution to our school and to a local elementary school, to acquire leadership skills, and to experience a real-life-teaching situation.

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

**Prerequisite:** English 111/112

**THEATRE ARTS 120**

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

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

**Prerequisite:** None

**WRITING 110**

This is an elective course for grade 11/12 students who wish to improve and enrich their

writing skills. The focus will be on writing as a process: brainstorming, outlining, drafting, polishing, and publishing. Many formats will be explored such as free writing, exposition, description, process analysis, narration, book/movie reviews. Within the course structure there is opportunity for creative expression. Assessment will be frequent and will include portfolio assessment, tests, term projects and publishing assignments. Students whose work is complete and whose attendance is exemplary may opt to participate in literary showcase in lieu of a written exam.

**Prerequisite:** None

**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**

This course will build essential English skills in the areas of speaking, listening, reading, and writing, with a particular focus on building foundational literacy and communicative skills. In addition to focusing on foundational literacy and basic oral communication skills, this course provides the opportunity for students to learn new cultural norms in a supportive environment.

**EAL 110 ESSENTIALS A1.2**

This course will build essential English skills in the areas of speaking, listening, reading, and writing, through meaningful, authentic task-based learning. The focus is placed on communicative tasks required for common social interactions and immediate needs. In addition to focusing on oral communication skills, high frequency language and essential vocabulary, reading and writing are supported explicitly through foundational literacy skills. These courses provide students with essential strategies for successful English language learning and cultural competency.

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

These courses will further strengthen English skills, with the focus placed on communicative tasks that support the development of reading, writing, and interacting (speaking/listening) in English. These courses transition students from learning to read to reading to learn. Learners are provided with opportunities to develop writing skills, academic vocabulary, reading strategies, socio-cultural competencies, and strategies for academic success.

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

These courses will further enhance English skills, with the focus placed on developing a wide range of literacy skills through interacting (speaking/listening), reading and writing for a variety of purposes and audiences. Learners are provided with opportunities to expand on writing skills, academic vocabulary, reading strategies, social-cultural competencies, and strategies for academic success.

**WRITING 110**

The focus is on writing different text-types for a variety of purposes and audiences. As a community of EAL writers, students follow the writing process to write creatively as well as practice the skills of demand writing and editing. Students learn the traits of “good” writing, improve their applied grammar skills, and produce portfolios to showcase their final pieces. Although the focus is on writing, students develop their reading and speaking skills, as well.

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

## Fine Arts

**NOTE:** Students MUST not have any outstanding arts fees from grade 9 or 10 art classes prior to enrolling in any art electives.

### **ABORIGINAL ART 110 (Local Option, see page 5)**

This course is open to all students in grade 11 and 12. It provides an opportunity to connect with the rich and diverse Art and Cultural Heritage of our province and to develop their artistic and cultural development.

**CANCELLED**

**Studio fee: \$15.00**

**Prerequisite:** None

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

If you find logos, T-shirt design or illustrations interesting and would like to learn how to successfully create them, then Graphic Art and Design 110 will prove both enjoyable and useful. You will learn the technical side of the graphic process along with how to communicate with targeted intent. Images will be created by hand and/or scanned and manipulated by the use of a computer.

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

**Prerequisite:** None

### **MUSIC 111 (Instrumental/Voice/Piano)**

This course is for anyone who has played an **orchestra** or **concert band instrument** for the last 3+ years or who is currently **studying voice** or **piano** privately and has a strong performance/theory background. Approximately 40% of class time is spent on developing playing technique and in performing a varied repertoire. The balance of the time is spent on theory, history, analysis, and composition.

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

**Prerequisite:** 3+ years band/orchestra OR serious private study experience

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

This course is designed for the general level piano, guitar or choral student who has the ability to 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.

\* Piano or guitar or choral class will be offered separately where numbers allow.

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

**Prerequisite:** Grade 10 Piano/Guitar/Choral

### **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.

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

**Prerequisite:** Music 112/112

### **RECORDING & SOUND DESIGN 120 (Local Option, see page 5)**

This course is designed for the student who has an interest in audio recording and design. The student will receive instruction in the physics of sound, looping, MIDI, microphone techniques, and recording and sound design.

Learning time will be divided between recording sessions in the recording studios, curriculum-based projects on the Mac computer and class projects. **Priority given to grade 12 students.**

**Recommended but not required:** Music 111/112 Music **OR** Music 122 **OR** by permission of the instructor.

### **VISUAL ARTS 110**

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

**Studio fee: \$15.00**

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

**Prerequisite:** None

### **VISUAL ARTS 120**

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

**Studio fee: \$15.00**

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

**Prerequisite:** Visual Arts 110



## Health & Physical Education

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

### **INTRODUCTION TO KINESIOLOGY 120 (Local Option, see page 5)**

This course is designed for students planning on taking kinesiology, science or nursing at the university/college level. This will be a fully developed academic course which will include a variety of engaging instructional practices and group activities including demonstrations, student presentation, guest speakers, as well as activities that will enhance the students' knowledge of kinesiology. Students will develop their skills in critical thinking and problem solving while using technology as a tool to enhance their knowledge. Topics covered during this course will include human anatomy, exercise science, recreation and sport studies, as well as careers in Kinesiology.

**Prerequisite:** None

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

Informative class which provides the student with accurate details on healthy food choices and proper nutrition throughout the lifecycle. This course also looks at social concerns regarding food including the problems arising from living in an affluent society as well as the devastation of hunger. Focus is on the nutrients; carbohydrates, fats, and protein, and how they impact our daily food choices. Students interested in pursuing careers in nutrition, dietetics, Kinesiology or personal training, or those wishing to improve their personal knowledge of a healthy lifestyle and overall fitness, should strongly consider this course.

**Prerequisite:** None

### **OUTDOOR PURSUITS 110**

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

Students are admitted to the course based on:

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

Students must also be recommended by two teachers who have taught them in the past and know them well enough to comment on the qualities identified in #2 and #3

**Application and recommendation forms are available on the FHS website.**

**Course fee: \$75** payable at the beginning of the course. This fee is to help offset costs associated with transportation, equipment rental, facility rental, supplies, etc.

**Note: Fine Art/Life Role Development credit Prerequisite:** None

### **PHYSICAL EDUCATION LEADERSHIP 120**

The focus of this course is to develop leadership skills through the medium of physical education and recreation. The following inter-related units will be considered throughout the semester: Leadership Theory, Sports Administration, Teaching, Officiating, Coaching and sports Medicine. Students will also be required to teach specific lessons/skills as part of their developmental experience. Students will be expected to participate in public speaking and frequently conduct presentations to the class.

In addition to the academic requirements in the classroom, students must also commit to volunteering 35 hours of extracurricular involvement outside the normal classroom setting. Some of this time may be assigned at lunch time (extra-murals, for example) or after school. Thirty hours must occur at school and directly benefit Fredericton High School or FHS teams. **Students failing to complete this mandatory component of the course will not receive the credit.**

Students are admitted to the course based on:

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

Students must also be recommended by two teachers who have taught them in the past and know them well enough to comment on the qualities identified in #2 and #3.

**Application and Recommendation forms are available on the FHS website.**

**Note: Fine Art/Life Role Development credit Prerequisite:** None

**Health &  
Physical  
Education  
Continued**

**WELLNESS PHYS ED 110**

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

**Course fee: \$75** payable at the beginning of the course. This fee is to help offset costs associated with transportation, equipment rental, etc.

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

**Prerequisite:** None

**YOGA 110 (Local Option, see page 5)**

Yoga 110 will explore the physical and mental aspects of yoga – develop the acquisition and development of skills including strength, flexibility, cardiovascular endurance, balance, regulation of energies through breath and mental focus. The Yoga 110 course will allow students to participate in various activities including the yoga physical practice, personal reflection, partner assessment, group discussions and classroom theory. 40% of the course will be classroom based – topics will include: the history of yoga, the essentials of nutrition, ethical principles (kindness, generosity, mutual respect, and humanity). Explore exercise that help empower students, foster positive mental health and mental fitness and help produce purposeful members of our school communities and society.

**Prerequisite:** None

## Mathematics

Mathematics is a useful, exciting and creative area of study that can be appreciated and enjoyed by all students. It helps them develop their ability to solve problems and to reason logically. Mathematics offers to these curious, energetic students a way to explore and make sense of their world.

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

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

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

### **FOUNDATIONS OF MATHEMATICS 110 FI FOUNDATIONS OF MATHEMATICS 110**

This course is a pre-requisite for a second **Foundations of Mathematics** course in Grade 12 providing a pathway designed for entry into academic programs not requiring pre-calculus. It is also a pre-requisite for the pre-calculus pathway. Students develop logical reasoning skills and apply this to proofs and problems involving angles and triangles, the sine law and the cosine law. Students model and solve problems involving systems of linear inequality in two variables and explore characteristics of quadratic functions. Costs and benefits of renting and leasing and buying are explored and investment portfolios are analyzed.

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

### **PRE-CALCULUS 110 FI PRE-CALCULUS 110**

This course, followed by later courses in Pre-Calculus and Calculus, is designed for entry into post-secondary programs requiring Pre-Calculus. Students demonstrate an understanding of absolute value of real numbers and solve problems that involve radicals, radical expressions, and radical equations. Students determine equivalent forms, simplify rational expressions, and solve problems that involve rational equations. They develop an understanding of angles in standard position ( $0^\circ$

to  $360^\circ$ ) and solve for these angles using the three primary trigonometric ratios. Polynomial expressions are factored and absolute value functions and quadratic functions are analyzed and graphed.

Students solve problems that involve quadratic equations and solve, algebraically and graphically, problems that involve systems of linear-quadratic and quadratic-quadratic equations in two variables. They also solve problems that involve linear and quadratic inequalities in two variables, and quadratic inequalities in one variable.

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

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

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

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

### **FOUNDATIONS OF MATHEMATICS 120**

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

**Prerequisite:** Foundations of Mathematics 110

### **GEOMETRY 120 (Local Option, see page 5)**

In this new course, students will study geometry to a deeper level. This course builds on the reasoning and geometry units previously covered in Foundations of Mathematics 110. Students will study the history of geometry, focusing on Euclid's Elements, mathematical

**Mathematics  
Continued**

proof techniques, properties of polygons and circles, modelling using geometric software, and co-ordinate geometry. This course is intended for those students who both enjoy math and wish to challenge themselves in order to gain a deeper insight into these topics.

**Prerequisite:** Foundations of Mathematics 110

**MATH TUTOR 120 (Local Option, see page 5)**

This course presents a unique opportunity for students with good academic achievement, excellent attendance and good communication skills. Under the guidance of the instructor, tutors work on a one-to-one or small group basis with students who are seeking to raise their numeracy skills. Tutors learn basic math education strategies and teaching techniques, and are assigned student(s) to work with for the term. A real commitment is required (in attendance and day by day planning), since the student depends on the tutor. This is a chance to make a positive contribution to our school, to acquire leadership skills, and to experience a real-life-teaching situation.

A mark of at least 85% in Foundations is recommender, together with an excellent attendance record. Interested students should obtain application form from their current math teacher.

**Prerequisite:** Foundations of Math 110

**PRE-CALCULUS A 120**

This course is a pre- or co-requisite for **Pre-Calculus B 120**. Students demonstrate and apply an understanding of the effects of horizontal and vertical translations, horizontal and vertical stretches, and reflections on graphs of functions and their related equations. They are introduced to inverses of functions, logarithms, and the product, quotient and power laws of logarithms and use these laws and the relationship between logarithmic and exponential functions to solve problems.

Students are introduced to angles in standard position, expressed in degrees and radians, and to the unit circle. The six trigonometric ratios and the sine, cosine and tangent functions are used to solve problems. First and second degree trigonometric equations are solved algebraically and graphically with the domain expressed in degrees and radians. Trigonometric identities are proven using reciprocal, quotient, Pythagorean, sum or difference, and double-angle identities.

**Prerequisite:** Pre-Calculus 110

**PRE-CALCULUS B 120**

This course is a pre-requisite for **Calculus 120**. Students analyze arithmetic and geometric sequences and series to solve problems. They learn to factor polynomials of degree greater

than 2, and to graph and analyze polynomial functions. They also graph and analyze radical, reciprocal and rational functions, building a function toolkit. Students are introduced to the concept of limits and determine the limit of a function at a point both graphically and analytically. They explore and analyze left and right hand limits as  $x$  approaches a certain value using correct notation, analyze the continuity of a function and explore limits which involve infinity.

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

**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.

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

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

**PRE-CALCULUS 121 AB & AP CALCULUS AB (3 credits)**

Students enrolling in this full-year course will receive credits for Pre-Calculus A 120, Pre-Calculus B 120 and AP Calculus AB 120. This course is an enriched program of study covering three semesters of work in two. It is designed to challenge students with a very high ability in mathematics who can handle work at an accelerated pace. Topics covered are described above.

**Prerequisites:** Pre-Calculus 110 AND the recommendation from your grade 11 math teacher who will provide an application form for interested students.

## Science

**NOTE:** There is a **\$5 lab fee** for all grade 11 & 12 Science courses.

### **BIOLOGY 111**

This course is designed for the student who is self-motivated with a genuine interest in science. The course topics are the same as the Biology 112 course; however, they will be covered in greater depth.

**Prerequisite:** Science 10

### **BIOLOGY 112 FI BIOLOGY 112**

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

**Prerequisite:** Science 10

### **BIOLOGY 121**

This course is designed for students who have demonstrated a high level of achievement in previous science courses. Topics covered include the nervous system, the endocrine system, the reproductive system, genetics, the structure of DNA, DNA synthesis, protein synthesis and an overview of the chordates. Students taking this course may elect to write the AP Biology exam.

**Prerequisite:** Science 10

**Recommended but not required:** Biology 111/112 and Chemistry 111/112

### **BIOLOGY 122**

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.

**Prerequisite:** Science 10

**Recommended but not required:** Biology 111/112 and Chemistry 111/112

### **CHEMISTRY 111**

This is an enriched chemistry course designed for students who are planning to take courses in science or engineering at the university level. Students selecting this course should have at least 85% average ability in science and mathematics. This course covers all of the topics from Chemistry 112, with enrichment in topics such as molecular orbital theory and empirical/molecular formulas. As well, students must complete a guided independent study on gas laws.

**Pre- or Co-requisite:** Foundations of Mathematics 110 **AND** Science 10

### **CHEMISTRY 112 FI CHEMISTRY 112**

This is an introductory course in chemistry. This course continues to build upon chemical concepts learned in grade 10. Students planning on taking 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, and gas laws.

**Pre-or Co-requisite:** Foundations of Mathematics 110 **AND** Science 10

### **CHEMISTRY 121**

A continuation of Chemistry 111 designed for serious science students who plan to further their science education at the post-secondary level. The course covers all of the topics covered in Chemistry 122, with enrichment, plus a unit on electrochemistry, solubility equilibrium, reaction mechanisms and rate laws. Students taking this course may elect to write the AP chemistry exam.

**Prerequisite:** Chemistry 111/112 **AND** Foundations of Mathematics 110

### **CHEMISTRY 122**

Students planning on taking science, engineering or nursing should take this course. It is a continuation of grade 11 Chemistry. Topics covered include organic chemistry, chemical equilibrium, acid-base chemistry and energy changes. A good background in Chemistry 11 and Foundations of Mathematics 110 is an asset.

**Prerequisite:** Chemistry 111/112 **AND** Foundations of Mathematics 110

### **CONCEPTUAL PHYSICS 110 (Local Option, see page 5)**

This course is open to any grade 11/12 student. Conceptual Physics will place less emphasis on mathematics and cover topics such as astronomy, space travel, fluids, weather/climate, and electrical power generation. There will be several labs/projects including field trips to Mactaquac Dam and Point Lepreau, model rocket construction/launching, model boat building as well as the physics of telescopes and construction. *Not to replace Physics 111/112 or Physics 121/122. It cannot be counted as a science elective for graduation.*

**Prerequisites:** Math 10 **AND** Science 10

### **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 human body by looking

## Science Continued

at the basic function and structure of each body system. Students will participate in a variety of hands-on learning opportunities, including dissections, labs, models, and projects. By the end of the course, students will have developed a holistic personal wellness plan demonstrating their understanding of health, human physiology, effect of disease, and lifestyle choice.

**Lab fee: \$5.00**

**Prerequisite:** Science 10

### **INTRO TO ENVIRONMENTAL SCIENCE 120**

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

Students will:

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

**NOTE: All students will participate in a School Sustainability Project and/or a Wetland Centre of Excellence project that will comprise 50% of their final mark. Project presentations will take place on the exam date and will replace a written exam.**

**Prerequisite:** Science 10

### **OCEANOGRAPHY 120 (Local Option, see page 5)**

Oceanography 120 is a comprehensive course that focuses on the scientific study of the ocean. This course explores the biological, physical, and environmental aspects of marine science in a real world context. Course content includes: an introduction to marine science, the physical environment of the ocean, marine biology and habitat, coastal zones, ocean industries and resources, and marine hazards and pollution. Students will be expected to complete projects and assignments, participate in various learning activities, including labs, and maintain a high standard of work ethic.

**Prerequisite:** Science 10

**Recommended but not required: Biology 112**

### **PHYSICAL GEOGRAPHY 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. 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.

**Prerequisite:** Science 10

### **PHYSICS 111**

An enriched physics course for the motivated science student. Students electing to take this course should have better than average ability in mathematics and science. Topics covered are the same as those in Physics 112 plus optics and interference of light.

**Pre- or Co-requisite:** Foundations of Mathematics 110 **AND** Science 10

### **PHYSICS 112**

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.

**Pre- or Co-requisite:** Foundations of Mathematics 110 **AND** Science 10

### **PHYSICS 121**

A continuation of Physics 111 designed for above-average physics students. The course covers the same topics as Physics 122 plus torque and rotational motion. Students who take Physics 111/112, Physics 121 and AP Physics 2 120 will complete all of the content of a first year university course. Students may elect to write the AP Physics 1 exam.

**Prerequisite:** Physics 112/111 **AND** Foundations of Mathematics 110.

### **PHYSICS 122**

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.

**Prerequisite:** Physics 112 **AND** Foundations of Mathematics 110

**Science  
Continued**

**AP PHYSICS 2 120**

This course is offered to above-average science students who intend to take science or engineering at the university level. Topics covered include the study of magnetism, electromagnetism, atomic structure, quantum mechanics, nuclear physics, thermodynamics and fluid mechanics. This course is designed to supplement previous chemistry and physics courses. It is highly recommended that students intending to write the AP Physics 1, AP Physics 2 and the AP Chemistry exams take this course.

**Prerequisites:** Physics 111/112, Chemistry 111/112, Physics 121/122, **AND** Foundations of Mathematics 110

**Co-requisites:** Chemistry 122/121

**Second  
Languages/  
Modern  
Languages**

**Registration criteria for FI, Core and PIF**

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

Students who have taken French first language Courses (ie Ecole Ste Anne transfer students) are not eligible for French Immersion Courses or PIF Language Arts courses.

**Oral Proficiency Assessment: Grade 12**

An oral proficiency assessment will be administered to all Grade 12 students enrolled in a French course (ie. Immersion or PIF). Students will receive a certificate of oral proficiency at the end of the grade 12.

**POST INTENSIVE FRENCH**

During Intensive and Post-Intensive French, students engage in interesting activities and projects that foster conversations among students while developing reading and writing skills.

Both Intensive and Post-Intensive French promote learning French through language-based activities versus learning subjects, such as science and social studies in French.

Intensive French incorporates some of the instructional strategies used to teach English in the primary grades. Listening, speaking, reading, viewing, writing and representing are modeled and developed in an integrated fashion through learning experiences which revolve around a theme or a project that require authentic communication.

Intensive French focuses first on speaking (fluently and accurately) supported by reading and writing. In the course of a day students read and write about topics that they can speak about easily and correctly.

**PIF (Post Intensive French) 110**

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

**Prerequisite:** Post-Intensive French 10

**PIF (Post Intensive French) 120**

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

**Prerequisite:** Post-Intensive French 110

**FRENCH LANGUAGE (Immersion)**

Becoming bilingual or multilingual leads to valuable personal enrichment.

Upon entering high school, students in immersion should have the following skills:

- 1) a good ability enabling them to understand the language in a variety of subject areas.
- 2) the ability to speak freely and without hesitation, although sometimes inaccurately.
- 3) the ability to understand written text relating to a variety of subjects and to be able to read short stories and novels of a moderate degree of difficulty.
- 4) the ability to write compositions, make notes and summaries (although with language errors)

**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.

**Prerequisite:** FI Language Arts 10

**FI LANGUAGE ARTS 120**

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

**Prerequisite:** FI Language Arts 10

**FI TECHNIQUES DE COMMUNICATIONS 110  
(Local Option, see page 5)**

This course is open to grade 11/12 students who wish to improve their oral and written skills in French. The program includes a variety of communication activities. The oral component is a very important aspect of the course.

**Prerequisite:** FILA 10 OR PIF 10

**FI TECHNIQUES DE COMMUNICATIONS 120  
(Local Option, see page 5)**

This course is open to grade 11/12 students who wish to improve their oral and written skills in French. The program includes a variety of communication activities. The oral component is a very important aspect of the course.

**Prerequisite:** FILA 10 OR PIF 10



**Second  
Languages/  
Modern  
Languages  
Continued**

**MANDARIN 120 (*Local Option, see page 5*)**

This course is open to grade 11 and 12 students. The course is designed to develop Mandarin skills. The program includes a variety of activities to learn Mandarin. This course will greatly benefit students seeking employment in languages and for personal development and growth.

**Prerequisite:** None

**SPANISH 110**

The primary objective of this introductory course is to develop initial communicative abilities in the Spanish language. Students taking this course will experience continual practice in communicating and will become familiar with common Hispanic customs and traditions. This course is open to grade 11 and 12 students.

**Prerequisite:** None

**SPANISH 120**

Spanish 120 builds on students' competence and provides students with opportunities to develop their competence to a Basic level as defined by the New Brunswick Second Language Oral Proficiency Scale.

Students completing this course will be able to satisfy minimum courtesy requirements and maintain very simple face-to-face conversations on familiar topics. The student will be able to ask for help and to verify comprehension of native speech in face-to-face interaction.

Students interested in post-secondary Spanish courses are encouraged to take this class as it permits a more in-depth study of the language.

**Recommended but not required:** Spanish 110

## Social Studies

**NOTE:** French Immersion students are encouraged to choose FI Modern History and FI World Issues.

### **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.

**Prerequisite:** None

### **ECONOMICS 120**

This course is an introductory economics course 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 & demand, the stock market, economic indicators, money and the Canadian banking system and stabilization policy.

**Prerequisite:** None

### **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 provide an introduction to the concepts and principles of civil and criminal law. Major topics include foundations of the legal system, criminal law, human rights, torts, and family law. Students will experience practical exposure to the law through guest speakers, a courtroom visit and daily current event discussions.

**Prerequisite:** None

### **MODERN HISTORY 111**

#### **FI MODERN HISTORY 111**

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

**Prerequisite:** Social Studies 10

### **MODERN HISTORY 112**

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

This course is designed for students who plan to attend post-secondary institutions. Students will learn about the most significant events and forces in the western world over the last 300 years which 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.

**Prerequisite:** Social Studies 10

### **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.

**Prerequisite:** Social Studies 10

### **NATIVE STUDIES 120**

This course is designed to help students gain an understanding of the Micmac and Maliseet cultures in the Maritime provinces (past, present and future) and to see how First Nations and non-First Nations views have influenced the course of events in the Maritimes. Units include: language and culture, religion and spirituality, ancient times, arts and crafts, community and colonial relations with a focus on native culture and traditions. This elective is open to all grade 11/12 students who are interested in developing an understanding of First Nations culture and their perspectives on various native issues.

**Prerequisite:** None

### **POLITICAL SCIENCE 120**

This course is designed as an introduction to basic principles of the study of politics. Emphasis is placed on the student's development of analytical and critical thinking skills. Use is made of historical and current documents. Individual seminars and group projects form a significant part of the learning experience. Time will be spent in learning the basic concepts and terminology of political science and in developing the basic skills of political science research. Topics include Canadian and American government systems, characteristics of political systems and current political happenings.

**Prerequisite:** Modern History 112/111

**Social  
Studies  
Continued**

**PSYCHOLOGY 110 (Local option, see page 5)**

This course is an introduction to psychology. Students will begin to explore psychology as a science that seeks to answer all sorts of questions about us all – how we think, feel and act. Students will learn to think critically as they explore human nature in depth. The field of psychology explores many topics such as – careers in psychology, how research is collected and used, the psychology of culture and gender, how our consciousness is altered through sleep, dreams and hypnosis, psychological disorders, such as schizophrenia and other personality disorders. This is a great introductory course for students interested in pursuing psychology or any other related field or for anyone interested in learning more about human nature.

**Prerequisite:** None

**PSYCHOLOGY 120 (Local Option, see page 5)**

This is an elective course open to students in grade 11/12. This course is a continuation of Psychology 110. Students will continue to explore psychology as a science that seeks to answer all sorts of questions about human behavior – why we think, feel and act the way we do. Students will explore motivation and emotion, perspectives on personality development, how we learn, memory, the nature of intelligence, stress and health, social relations and treatments for psychological disorders.

**Recommended but not required:** Psychology 110

**ADVANCED PLACEMENT PSYCHOLOGY 120**

AP Psychology is designed to introduce students to the systematic and scientific study of the behavior and mental processes of human beings. Students are exposed to the psychological facts, principles and phenomena associated with psychology. Content areas include – research methods, behavior, sensation & perception, states of consciousness, and developmental, abnormal and social psychology. This course is equivalent to an introductory university course in psychology. Students taking this course may elect to write the AP Psychology exam. Entrance to the course is based on previous academic performance.

**Prerequisite:** None

**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.

**Prerequisite:** Modern History 112/111

**AP WORLD HISTORY 120**

This is an enriched history course designed for students who are interested in exploring how the histories of different parts of the world are interconnected. If the AP exam is written, this may be used as a University credit. Discussion and research study along with development of analytical and critical thinking skills will be emphasized. Individual and group seminars will be a part of the learning experience

**Prerequisite:** Modern History 111/112

**WORLD ISSUES 120**

**FI WORLD ISSUES 120**

This course is a study of global issues. It focuses on current world problems with emphasis on current events, their historical background, present situation, attempted solutions and ongoing problems. Students investigate current issues and country conflicts, with seminar presentation, Socratic circles and discussion.

**Prerequisite:** None

### Alphabetical Listing of Courses

<b>Aboriginal Art 110</b>	16	Fashion Design 120	11	<i>Music 112 (General: Choral/Guitar/Piano)</i>	16
<b>Advanced Computer Aided Drafting 120</b>	6	Fashion Technology 110	11	<i>Music 122 (Instrumental)</i>	26
<b>Advanced Keyboarding 110</b>	9	FI Biology 112	21	Native Studies 120	26
AP Calculus 120	20	FI Chemistry 112	21	Nutrition for Healthy Living 120	17
AP Physics 2 120	23	FI Foundations Math 110	19	<b>Oceanography 120</b>	22
AP Psychology 120	27	FI Language Arts 110	24	<i>Outdoor Pursuits 110</i>	17
AP World History	27	FI Language Arts 120	24	<b>Parenting 110</b>	12
Automotive Electrical Systems 120	6	FI Modern History 111	26	PCMT Co-op 120	9
Biology 111	21	FI Modern History 112	26	<i>Phys. Ed. Leadership 120</i>	17
Biology 112	21	FI Pre-Calculus 110	19	Physical Geography 110	22
Biology 121	21	<b>FI Techniques de Communication 110</b>	24	Physics 111	22
Biology 122	21	<b>FI Techniques de Communication 120</b>	24	Physics 112	22
Business Organization and Management 120	10	FI World Issues 120	27	Physics 121	22
Calculus 120	20	Financial & Workplace Math 110	19	Physics 122	22
Canadian History 122	26	Financial & Workplace Math 120	19	Physics 2 AP 120	23
<b>Care &amp; Maintenance Auto 110</b>	6	Foundations of Mathematics 110	19	Political Science 120	26
<i>Career Exploration 110</i>	9	Foundations of Mathematics 120	19	Post Intensive French 110	24
Chemistry 111	21	Framing & Sheathing 110	7	Post Intensive French 120	24
Chemistry 112	21	<b>Gender, Media &amp; Culture 120</b>	13	Power Train & Chassis 110	7
Chemistry 121	21	<b>Geometry 120</b>	19	Pre-Calculus 110	19
Chemistry 122	21	<i>Graphic Art &amp; Design 110</i>	16	Pre-Calculus A 120	20
Child Studies 120	10	Growth, Goals & Grit 120	11	Pre-Calculus B 120	20
Computer Aided Basic Design 110	6	Hospitality & Tourism 110	11	Pre-Calculus AB & AP Calculus 121	20
Computer Science 110	10	Housing & Design 120	7	<b>Psychology 110</b>	27
Computer Science 120	10	Human Physiology 110	21	<b>Psychology 120</b>	27
<b>Conceptual Physics 110</b>	21	<i>Individual &amp; Family Dynamics 120</i>	21	Psychology AP 120	27
<i>Co-operative Education 120 (3cr)</i>	9	Information Technology 120	11	<i>Reading Tutor 120</i>	14
<i>Co-op 120 (1cr) Digital Media</i>	9	Internal Combustion Engines 110	7	<b>Recording &amp; Sound Design 120</b>	16
<i>Co-op 120 (1cr) PCMT</i>	9	Introduction to Accounting 120	11	Residential Electrical Wiring 110	8
Culinary Technology 110/120 Block	6	Introduction to Electronics 110	7	Residential Finish 120	8
Culinary Technology 110	6	Introduction to Environmental Science 120	22	Robotics & Technology 120	8
Culinary Technology 120	6	<b>Introduction to Kinesiology 120</b>	17	<i>Skilled Trades Co-op 120</i>	9
Digital Production 120	10	Journalism 120	13	Sociology 120	27
EAL 110 Essentials A1.1	15	Law 120	26	Spanish 110	25
EAL 110 Essentials A1.2	15	<i>Leadership 120</i>	17	Spanish 120	25
EAL 120 Connections A2.1 & A2.2	15	<b>Maintenance Auto 110</b>	6	Tech Support 110	12
EAL 120 Expressions B1.1 & B1.2	15	<b>Mandarin 120</b>	25	<b>Techniques de Communication 110</b>	24
EAL Writing 110	15	<b>Marketing 120</b>	11	<b>Techniques de Communication 120</b>	24
Early Childhood Services	10	<b>Math Tutor 120</b>	20	<i>Theatre Arts 120</i>	14
Economics	26	Media Studies 120	14	Tune-up & Emission 120	8
English Language Arts 111	13	Metals Fabrication (Welding) 110	7	<i>Visual Arts 110</i>	16
English Language Arts 112	13	Metals Processing (Machine Shop) 110	7	<i>Visual Arts 120</i>	16
English Language Arts 113	13	Mill & Cabinet Work 120	7	<i>Wellness Physical Education 110</i>	18
English Language Arts 121	13	Modern History 111	26	World History AP 120	27
English Language Arts 122	13	Modern History 112	26	World Issues 120	27
English Language Arts 123	13	Modern History 113	26	Writing 110	14
<i>Entrepreneurship</i>	10	<i>Music 111 (Instrumental/Piano/Voice)</i>	16	<b>Yoga 110</b>	18
Fashion Technology 110/Fashion Design 120 Block	10				

\*Local Options are in bold

\*Fine Art/Life Role are italicized