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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 2023: 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, with the exception of Number Relations and Functions 10, if replaced with Financial and Workplace Math 110.

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 21 credits in order to be eligible for graduation.** 18 of 21 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: Human Physiology 110, Child 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: Chemistry 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.

Prerequisites:

Please read the course descriptions and requirements carefully prior to course selection as many courses have prerequisites. Many courses must be taken in sequence to fulfill the prerequisite; students without prerequisites 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 an FI or PIF course (of any subject matter). This certificate is awarded by the Department of Education after an assessment by professional evaluators. The certificate is presented upon completion at the end of the semester. There is no cost for this assessment.

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.

CLASS OF 2023: GRADUATION REQUIREMENTS

YEAR 10 COURSES COMPLETED (these are not credits)

- | | |
|----------------------------|----------------------------------|
| ___ FI / Math 10 | ___ PIF 10 / FI Language Arts 10 |
| ___ English 10 A & B | ___ Personal Development 10 |
| ___ FI / Social Studies 10 | ___ Grade 10 elective |
| ___ FI / Science 10 | ___ Other grade 10 elective |

MATH CREDITS (2 credits)

- | | |
|--|--|
| ___ FI / Math NRF 10 | ___ FI / Foundations 110 (pre-req: NRF) |
| ___ Financial & Workplace 110 (pre-req: GMF) | ___ Financial & Workplace 120 (pre-req: Finance 110) |

YEAR 11 & 12 – COMPULSORY (6)

- ___ ENGLISH 111, 112, or 113 (English 11 A & B – 2 Credits)
- ___ ENGLISH 121, 122 or 123
- ___ 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:
 - Auto Electrical Systems 120, Career Exploration 110, Computer Aided Design 110, Co-op Education 120, Culinary Tech 110/120, Dramatic Arts 120, Electrical Wiring 110, Entrepreneurship 110, Fashion Design 120, Fashion Tech 110, Fine Arts 110, Framing & Sheathing 120, Graphic Art & Design 110, Growth, Goals & Grit 120, Housing & Design 120, Individual Family Dynamics 120, Internal Combustion Engines 110, Intro to Electronics 110, Metals Fab 110, Metals Processing 110, Mill & Cabinet 120, Music 111/112/122/120, Nutrition for Healthy Living 120, Outdoor Education 110, PE Leadership 120, Powertrain & Chassis 110, Reading Tutor 120, Residential Finish 120, Robotics & Technology 120, Tune Up & Emissions 120, Visual Arts 110/120, Wellness Phys Ed 110

YEAR 11 & 12 – ELECTIVES (10)

- | | |
|-----------|-----------------------------------|
| 9. _____ | 16. _____ |
| 10. _____ | Local Options or other electives: |
| 11. _____ | 17. _____ |
| 12. _____ | 18. _____ |
| 13. _____ | 19. _____ |
| 14. _____ | 20. _____ |
| 15. _____ | 21. _____ |

ADDITIONAL NOTES

1. Eighteen (18) credits, including two (2) math and the six (6) other compulsory courses, are required for graduation. (**Only two local options and up to six Co-op courses may be used for the 18 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 A & B (2 credits: Refer to page 4)

2. Math (2 credits) (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.

7.

8.

9.

Grade 12

1. English 12 (1 credit)

2.

3.

4.

5.

6.

7.

8.

9.

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. Eighteen out of twenty-one credits are required for graduation. Only two local options may be used for the 18 required graduation credits. (See list below.)

Local Option Electives

- | | | |
|--------------------------------------|---------------------------|------------------------------|
| Art in Atlantic Canada 110 | Indigenous Literature 120 | Oceanography 120 |
| Advanced Computer Aided Drafting 120 | Intro to Sportology 120 | Psychology 110 |
| Advanced Keyboarding 110 | Kinesiology 120 | Psychology 120 |
| Aviation Pilot License School 120 | Maintenance Auto 110 | Recording & Sound Design 120 |
| Conceptual Physics 110 | Marketing 120 | World Religions 120 |
| Gender, Media & Culture 120 | Math Tutor 120 | Yoga 110 |
| Geometry 120 | Oceanography 120 | |

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

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

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

Note: Fine Arts/Life Role Development credit

Prerequisite: Internal Combustion Eng. 110

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.

Note: 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.

Note: Fine Arts/Life Role Development Credit

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.

Note: Fine Arts/Life Role Development Credit

Prerequisite: None

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

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

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 Chefs' 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 a good attendance record.

Lab Fee: \$10.00

Note: Fine Arts/Life Role Development Credit

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 Chefs' 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.

Lab Fee: \$10.00

Note: Fine Arts/Life Role Development credit

Prerequisite: None

**Applied
Technology
Continued**

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. 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.

Lab Fee: \$10.00

Note: Fine Arts/Life Role Development credit

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

Note: Fine Arts/Life Role Development credit

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: \$10.00

Note: Fine Arts/Life Role Development credit

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.

Note: Fine Arts/Life Role Development credit

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.

Note: Fine Arts/Life Role Development credit

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: \$25.00

Note: Fine Arts/Life Role Development credit

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: \$25.00

Note: Fine Arts/Life Role Development credit

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

Note: Fine Arts/Life Role Development credit

Prerequisite: None

**Applied
Technology
Continued**

ELECTRICAL WIRING (RESIDENTIAL) 110

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

Note: *Fine Arts/Life role Development credit*

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.

Note: *Fine Arts/Life Role Development credit*

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

Note: *Fine Arts/Life Role Development credit*

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.

Note: *Fine Arts/Life role Development credit*

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.

Note: *Fine Arts/Life Role Development credit*

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. **No more than 6 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. (See page 4.)

CAREER EXPLORATION 110 (2 credits)

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)

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

CO-OP (EARLY CHILDHOOD) 120

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

Note: Fine Arts/Life Role Development credit

CO-OP (LONG TERM CARE) 120

Long-Term Care Co-op 120 is a three-period co-op program at a licensed long-term care facility where you will complete classroom and practical training with students from across the province. You will complete the co-op course, working in a care facility with seniors and other individuals needing long-term care. You will **earn credits towards graduation** in Co-operative Education 120 and Health Care 110. You will also receive **employment ready recognition** from the care facilities involved in the program. This means that students successfully completing the program will be eligible for a follow-up preceptorship (96-hour placement) and possible employment with these centers.

Note: Fine Arts/Life Role Development credit

CO-OP (SKILLED TRADES) 120

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

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

CO-OP (DIGITAL MEDIA PRODUCTION) 120 (1 credits)

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

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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

**CO-OP (PCMT) 120
(1 or 2 credits)**

Personal Computer Maintenance and 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.

Prerequisite: None

**AVIATION PILOT LICENCE SCHOOL 120
(Local Option, see page 5)**

This is a Private Pilot ground school course being offered for grade 11 or 12 students who would like to learn the basics of aviation while receiving a full high school credit. The Transport Canada approved course will be taught by an experienced flight instructor and will cover the following topics: airframes and engines, theory of flight, human factors, meteorology, navigation, air law. This opportunity will also allow students to drastically reduce the costs associated with earning a pilot's license if it turns into a passion.

Prerequisite: None

**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

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

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

Prerequisite: None

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**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

ECONOMICS 120

This course is introductory economics aimed at familiarizing students with economic principles and providing them with an appreciation of the major economic issues in our society such as unemployment, inflation, GDP, provincial and federal budgets, as well as with programs, strategies and regulations created to deal with these issues. Units include introductory concepts, supply and demand, the stock market, economic indicators, money and the Canadian banking system and stabilization policy.

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

Lab Fee: \$15.00 plus cost of project supplies

Note: Fine Arts/Life Role Development credit

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 Design 120.

Lab fee: \$10.00 plus cost of project supplies

Note: Fine Arts/Life Role Development credit

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

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Studies
Continued**

learn about fashion promoting and marketing. Basic sewing will NOT be taught.

Lab fee: \$10.00 plus cost of project supplies

Note: Fine Arts/Life Role Development credit

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

GROWTH, GOALS & GRIT 120

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

Note: Fine Arts/Life Role Development credit

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, self-awareness, 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 their 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

INTRODUCTION TO 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 in business at a post-secondary institution.

Lab fee: \$10.00 for required workbook.

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

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, 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

English

Language Arts courses are skill-based programs of study that focus on three main areas of development: speaking and listening, reading and viewing, 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:** Though Grade 11 English courses are divided into two sections, students are working toward full-year learning goals.*

CANADIAN LITERATURE 120

The goal of the Canadian Literature 120 curriculum is to promote an interest in important Canadian literature and other creative texts. The course is for students who demonstrate an interest in literature and deconstructing texts, and who wish to explore Canadian identity through a variety of literary texts worthy of study and appreciation.

Prerequisite: English 10

ENGLISH LANGUAGE ARTS 111 A/B – (LITERARY TEXTS)

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. The focus for this section will be Literary Texts.

Prerequisite: English 10

ENGLISH LANGUAGE ARTS 111 B/A – (INFORMATIONAL TEXTS)

This enriched course is recommended for students who excelled in grade 10 English and who enjoy reading and writing. 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. The focus for this section will be informational Texts.

Prerequisite: English 10

ENGLISH LANGUAGE ARTS 112 A/B – (LITERARY TEXTS)

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 texts, and exploration of literary theories and perspectives. Students will work independently and collaboratively. The focus for this section will be Literary Texts.

Prerequisite: English 10

ENGLISH LANGUAGE ARTS 112 B/A – (INFORMATIONAL TEXTS)

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 texts, and exploration of literary theories and perspectives. Students will work independently and collaboratively. The focus for this section will be Informational Texts.

Prerequisite: English 10

ENGLISH LANGUAGE ARTS 113 A/B – (LITERARY TEXTS)

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. The focus for this section will be Literary Texts.

Prerequisite: English 10

ENGLISH LANGUAGE ARTS 113 B/A – (INFORMATIONAL TEXTS)

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. The focus for this section will be Information Texts.

Prerequisite: English 10

ENGLISH LANGUAGE ARTS 121

This enriched 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)

Prerequisite: English 111/112

ENGLISH LANGUAGE ARTS 122

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

**English
Continued**

presented to students to guide them along the continuum of text complexity.

Prerequisite: English 111/112

ENGLISH LANGUAGE ARTS 123

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)

This elective course for grades 11/12 students enables them to explore gender and media through the study of a range of equity issues in Canada and around the world. Gender, Media, and Culture is designed to welcome and celebrate students of all academic ranges, identities, and gender diversity.

Prerequisite: None

INDIGENOUS LITERATURE 120 (Local Option, see page 5)

This course will examine a wide variety of genres of Indigenous Literature while enabling students to work toward an understanding of how the history of Indigenous people, in what became Canada, has shaped, and continues to shape their voices. Students will work in this course to be able to demonstrate familiarity with Indigenous literature; demonstrate an understanding of the impact of the residential school system, and of other historical and contemporary issues, and their expression in literature, analyze the values, politics, and concerns addressed in works of Indigenous literature; and assess the use of literary elements such as theme, symbolism, and poetic devices in the assigned works.

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. It helps develop student expertise in concise and accurate writing while providing opportunities to practice critical thinking, writing, and representing skills in a variety of real-world situations. The course is inquiry-based and 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 develop a deeper understanding of the importance of well-informed literate citizens

to maintain a democratic society. They will think critically, work cooperatively and collaboratively, discuss and deconstruct relevant issues, research, write persuasively, and understand news values.

Prerequisite: None

MEDIA STUDIES 120

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

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. Students will participate in four writing modules, which may include: Narrative, Descriptive, Poetry, or Expository writing. Within the course structure there is opportunity for creative expression. Assessment will be frequent and will include portfolio assessment, term projects, and publishing assignments.

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

ART IN ATLANTIC CANADA 110 (Local Option, see page 5)

How does Atlantic Canada influence its visual artists, and how in turn is their visual art reflected in Atlantic Canadian Culture? This course will uniquely blend art history (specifically, that of New Brunswick and the Maritimes) the study of current issues impacting the production of visual arts, and a personalized studio experience in which students can respond to the course content in the visual art media of their choice. A specific focus on curation and the production of artist statements will further the study of artistic intent and purpose, improving student disciplinary literacy. Visits to New Brunswick art galleries and institutions is a vital part of the course.

Studio fee: \$15.00

Prerequisite: Visual Arts 10

DRAMATIC ARTS 110

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

Note: Fine Art/Life Role Development credit

Prerequisite: None

THEATRE/DRAMATIC ARTS 120

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

opportunities. extracurricular and community-based

Note: Fine Art/Life role Development credit

GRAPHIC ART AND DESIGN 110

Utilizing industry standard software (Photoshop and Illustrator), the Graphic Art and Design 110 course will give base skills in developing various projects. These software skills coupled with learning in design theory (typography, colour, composition), will allow for the development of unique layouts, logos, advertising, etc.

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

**Fine Arts
Continued**

Prerequisite: Students should have successfully completed Music 112/112 prior to beginning this course, however, students may apply to the teacher with evidence of private study and/or appropriate level of proficiency.

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.

Prerequisite: Music 111/112 Music **OR** Music 122 **OR** by permission of the instructor.

VISUAL ARTS 110

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

Studio fee: \$15.00

Note: Fine Art/Life Role Development credit

Prerequisite: None

VISUAL ARTS 120

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

Studio fee: \$15.00

Note: Fine Art/Life Role Development credit

Prerequisite: Visual Arts 110

Health & Physical Education

Note: Applications and recommendations forms are available on the FHS website.

INTRODUCTION TO SPORTOLOGY 120 (Local Option, see page 5)

The objective of this course will be to provide a foundation for students who are interested in pursuing studies in the field of Sportology (sociology, psychology, or another related field), at UNB or elsewhere. This course will provide an opportunity for students and student athletes to obtain knowledge about sociological and psychological factors of sport. Some examples would include gender, race, politics, economics, social media, motivation, concentration, confidence, anxiety, and relaxation. It is our hope that this course will help promote success for our students in their day-to-day lives and future post-secondary studies. The lesson plans for this course will be specifically designed to prepare students for the first-year university in the field of Kinesiology, Sociology, Psychology, or other related fields.

Note: Open to Grade 11 and 12 students.

Prerequisite: None

KINESIOLOGY 120(Local Option, see page 5)

This course is designed for students planning to take 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.

Note: Fine Arts/Life Role Development credit

Prerequisite: None

OUTDOOR EDUCATION 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 an elevated 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.

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

Note: Fine Arts/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 must also commit to volunteering 30 volunteer hours.

Some of this time may be assigned at lunch time (intramurals) or after school

Note: 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.

Note: Priority given to grade 12 students.

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: \$50 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. Forty percent 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

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° to 360°) and solve for these angles using the three primary trigonometric ratios. Polynomial expressions are factored, and absolute value functions and quadratic functions are analyzed and graphed. Students solve problems that involve quadratic equations and solve, algebraically and graphically, problems that involve systems of linear-quadratic and

quadratic-quadratic equations in two variables. They also solve problems that involve linear and quadratic inequalities in two variables, and quadratic inequalities in one variable.

Prerequisite: Foundations 110

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 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 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

**Mathematics
Continued**

MATH TUTOR 120 (Local Option, see page 5)

This course presents a unique opportunity for students with good academic achievement, excellent attendance, and effective 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 recommended, together with an excellent attendance record.

Prerequisite: Foundations of Math 110

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

NBCC Skilled Trades and Work-Ready Math 120 gives students the opportunity to practice skills individually, to solve problems with others, and to work on projects that incorporate mathematics. The intent of this course is that students become proficient with concepts in-context, so they can easily apply skills in workplace situations. Student should become familiar and proficient with the terms 'accuracy' and 'precision' and be able to determine what measuring tool is appropriate in various situations and will provide the required level of accuracy/precision. Lessons could also feature the opportunity to work with measurement tools such as a tape measure, metal ruler, micrometer, calipers, protractors, etc., in context. Imperial and S.I. units may be explored with a focus given to those most commonly found in the context of a post-secondary program or jobsite (ex: fractional inch).

Prerequisite: Financial Workplace 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.

Note: *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 requirements for the specific program and institution in which they are interested.*

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

Science

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 with a strong work ethic who are planning to take courses in science or engineering at the university level. Students selecting this course should have at least 90% in science and mathematics. This course covers all the topics from Chemistry 112, with enrichment in topics such as molecular orbital theory limiting reagents and empirical/molecular formulas. As well, students must complete a guided independent study on gas laws.

Prerequisite: Science 10

Recommended but not required: NRF10 and Foundations of Mathematics 110

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 to take nursing, engineering, or science (pure and applied) should consider taking this course. Topics covered are atomic bonding, chemical reactions, mathematical calculations related to reactions and solutions.

Prerequisite: Science 10

Recommended but not required: Foundations of Mathematics 110

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 Chemistry 112. 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

HUMAN PHYSIOLOGY 110

This course is designed to appeal to a wide range of learners, including students for whom this will serve as their science graduation requirement. The goal of this course is to build an understanding of the physiology of the human body. Throughout the course students will build their scientific literacy skills as they learn more about the different body systems and how they relate to each other. With this knowledge, students will be challenged to identify a physiological limitation and create an innovative product to assist individuals with that limitation. By the end of the course students will have more in-depth knowledge about their body and have made a positive contribution to their community.

Prerequisite: Science 10

**Science
Continued**

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. Analyze and propose solutions to current environmental issues through research, experimentation, and a presentation of their findings with respect to the issue.

Note: Students must have a strong work ethic and be able to work on a 2 month long independent/group of their design.

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, exploring the biological, physical, and environmental aspects 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.

Prerequisite: Science 10

Recommended but not required: NRF 10
AND Foundations of Mathematics

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.

Prerequisite: Science 10

Recommended but not required: Foundations of Mathematics 110

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

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 (i.e. francophone 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

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

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

MANDARIN 120

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

**Second
Languages/
Modern
Languages
Continued**

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

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 400 years which will include rights and revolution, nationalism and war. Students will become increasingly proficient in historical thinking, research and analysis and will demonstrate a competence in written and oral expression.

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

INDIGENOUS STUDIES 120

This course is designed to help students gain an understanding of the Wabanaki Nations and traditional cultures in the Maritime Atlantic region

(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 indigenous 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

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

**Social
Studies
Continued**

of intelligence, stress and health, social relations and treatments for psychological disorders.
Recommended but not required: Psychology 110

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

WORLD ISSUES 120

FI WORLD ISSUES 120

This course is a study of global issues implementing the experiential learning model. 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. Think global, act local!

Prerequisite: None

WORLD RELIGIONS 120 (*Local Option, see page 5*)

This course will explore major religious belief systems in the world including Aboriginal Spirituality, Hinduism, Buddhism, Judaism, Christianity, and Islam. The course will explore religious ideas of deity, milestones across religions, and the afterlife. The course will examine issues in Canada or elsewhere (terrorism, sexuality, for example) impacted by religious beliefs that affect the decision-making and the way of life of Canadians. This course complements studies in History, Political Science, Religious Studies, and Sociology.

Prerequisite: None

Advanced Placement Program (AP)

ADVANCED PLACEMENT PROGRAM® (AP)

The Advanced Placement Program® (AP) enables willing and academically prepared students to pursue college-level studies while still in high school. AP courses on a student's transcript shows that they have challenged themselves with the most rigorous courses available to them. And success on an AP Exam shows that they are ready for college-level coursework. Most four-year colleges and universities grant students credit, placement, or both for qualifying AP Exam scores. AP Exams are given in **May** each year.

AP Courses offered at Fredericton High School:

AP BIOLOGY 120

AP Biology is an introductory college-level biology course. Students cultivate their understanding of biology through inquiry-based investigations as they explore topics like evolution, energetics, information storage and transfer, and system interactions. Study the core scientific principles, theories, and processes that govern living organisms and biological systems.

Prerequisite: Biology 122 or Biology 121 recommended; Chemistry 112 or Chemistry 111. Students must have one chemistry course and one biology course completed prior to starting.

AP CALCULUS & PRE-CALCULUS AB 120

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.

AP ENGLISH LANGUAGE AND COMPOSITION 110

The AP English Language and Composition course focuses on the development and revision of evidence-based analytic and argumentative writing, the rhetorical analysis of nonfiction texts, and the decisions writers make as they compose and revise. Students evaluate, synthesize, and cite research to support their arguments. Additionally, they read nonfiction texts from a range of disciplines and historical periods. Open to grade 11 & 12 students.

Prerequisite: English 10

AP ENGLISH LITERATURE AND COMPOSITION 120

The AP English Literature and Composition course focuses on reading, analyzing, and writing about imaginative literature (fiction, poetry, drama) from various periods. Students engage in close reading and critical analysis to deepen their understanding of the ways writers use language to provide both meaning and pleasure. Writing assignments include expository, analytical, and argumentative essays that require students to analyze and interpret literary works.

Note: Open to grade 12 students

Prerequisite: English 112/111

AP MICROECONOMICS 110

Study the principles of economics that apply to the behaviour of individuals within an economic system. You will use graphs, charts, and data to analyze, describe, and explain economic concepts.

Skills you will learn:

- ✓ Define economic principles and models
- ✓ Explain given economic outcomes
- ✓ Determine outcomes of specific economic situations
- ✓ Model economic situations using graphs or visual representations

Recommended by not required: NRF 10

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

AP PSYCHOLOGY 120

AP Psychology is designed to introduce students to the systematic and scientific study of the behavior and mental health processes of human beings. Students are exposed to the psychological facts, principles and phenomena associated with psychology. Content area include- research methods, behavior, sensation & perception, states of consciousness, and developmental, abnormal and social psychology. This course is equivalent to an introductory

Advanced Placement Program (AP) Continued

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

AP RESEARCH 120

Build on what you learned in AP Seminar to deeply explore an academic topic, problem, or issue of individual interest. Through this exploration, you will design, plan, and conduct a year-long research-based investigation to address a research question.

Skills you will learn:

- ✓ Conducting independent research
- ✓ Analyzing sources and evidence,
- ✓ Applying context and perspective,
- ✓ Writing a college-level academic paper
- ✓ Presenting research findings to an audience

Prerequisite: AP Seminar

AP SEMINAR 120

This is an introductory AP class for grades 10 and 11 and serves as a prerequisite for AP Research. Develop and practice the skills in research, collaboration, and communication that you will need in any academic discipline. You will investigate topics in a variety of subject areas, write research-based essays, and design and give presentations both individually and as part of a team.

Skills you will learn:

- ✓ Reading and analyzing articles, studies, and other texts
- ✓ Gathering and combining information from sources
- ✓ Viewing an issue from multiple perspective
- ✓ Crafting arguments based on evidence.

Prerequisite: English Language Arts 9

Students can earn the AP Capstone Diploma™ or the AP Seminar and Research Certificate™.

Students who earn scores of three or higher in AP Seminar and AP Research an on four additional AP exams of their choosing receive the AP Capstone Diploma™.

Students who earn scores of three or higher in AP Seminar and AP Research but not on four additional AP exams receive the AP Seminar and Research Certificate™.

AP STATISTICS 120

Learn about the major concepts and tools used for collecting, analyzing, and drawing conclusions from data. You will explore

statistics through discussion and activities, and you will design surveys and experiments.

Skills you will learn:

- ✓ Selecting methods for collecting or analyzing data
- ✓ Describing patterns, trends, associations, and relationships in data
- ✓ Using probability and simulation to describe probability distributions and define uncertainty in statistical inference
- ✓ Using statistical reasoning to draw appropriate conclusions and justify claims

Recommended by not required: NRF 10

AP WORLD HISTORY 120

This is an enriched history course designed for students who are interested in exploring how the histories of various 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 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



myBlueprint

Not sure what career path you would like to follow? Are you unsure of your interests, strengths, and motivations? myBlueprint is an academic planner that offers assessments, search tools, and videos to help you explore these questions. Best of all, it is Canadian information.

FHS started using this in February 2019 so some students may already have an account through their Personal Development and Career Planning 10 class. If not, please feel free to follow the steps below to create an account. After completing the assessments, it is a good idea to book an appointment to follow up with your guidance counsellor about exploring your results and the questions that follow.

How to Create a New Account:

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

HELPFUL NUMBERS:

Kids Help Phone 1-800-668-6868
Chimo Helpline 1-800-667-5005
Fredericton Mental Health and Addictions 506-453-2132
Sexual Health Services 506-478-7605
Social Development 1-866-444-8838
ASDW Welcome Centre for Newcomers 506-444-3573
UNB Psychological Wellness Centre 506-452-6301
Enterprise 506-462-5083

Alphabetical Listing of Courses

Advanced Computer Aided Drafting 120	6	Early Childhood Services 110	11	Marketing 120	12
Advanced Keyboarding 110	10	Economics 120	11	Math Tutor 120	21
AP Biology 120	28	<i>Electrical Wiring (Residential) 110</i>	8	Media Studies 120	14
AP Calculus & Pre-Calculus AB 120	28	English Language Arts 111 – A & B	13	<i>Metals Fabrication (Welding) 110</i>	7
AP English Language and Composition 110	28	English Language Arts 112 – A & B	13	<i>Metals Processing (Machine Shop) 110</i>	7
AP English Language Literature and Composition 120	28	English Language Arts 113 – A & B	13	<i>Mill & Cabinet Work 120</i>	7
AP Microeconomics 120	28	English Language Arts 121	13	Modern History 111	26
AP Physics 2 120	28	English Language Arts 122	13	Modern History 112	26
AP Psychology 120	28	English Language Arts 123	14	Modern History 113	26
AP Research 120	29	<i>Entrepreneurship 110</i>	11	<i>Music 111 (Instrumental/Piano/Voice)</i>	16
AP Seminar 120	29	<i>Fashion Design 120/Fashion Technology 110 Block</i>	11	<i>Music 112 (General: Choral/Guitar/Piano)</i>	16
AP Statistics 120	29	<i>Fashion Design 120</i>	11	<i>Music 122 (Instrumental)</i>	21
AP World History 120	29	<i>Fashion Technology 110</i>	11	NBCC Trades Math 120	21
Art in Atlantic Canada 120	16	FI Biology 112	22	<i>Nutrition for Healthy Living 120</i>	18
<i>Automotive Electrical Systems 120</i>	6	FI Chemistry 112	22	Oceanography 120	23
Aviation Pilot License School 120	10	<i>FI Co-operative Education 120 (3cr)</i>	9	<i>Outdoor Education 110</i>	18
Biology 111	22	FI Foundations Math 110	20	<i>Phys. Ed. Leadership 120</i>	18
Biology 112	22	FI Language Arts 110	24	Physical Geography 110	23
Biology 121	22	FI Language Arts 120	24	Physics 111	23
Biology 122	22	FI Modern History 112	26	Physics 112	23
Business Organization and Management 120	10	FI Pre-Calculus 110	20	Physics 121	23
Calculus 120	21	FI Techniques de Communication 110	24	Physics 122	23
Canadian History 122	26	FI Techniques de Communication 120	24	Political Science 120	26
Canadian Literature 120	13	FI World Issues 120	27	Post-Intensive French 110	24
<i>Career Exploration 110</i>	9	Financial & Workplace Math 110	20	Post-Intensive French 120	24
Chemistry 111	22	Financial & Workplace Math 120	20	<i>Power Train & Chassis 110</i>	8
Chemistry 112	22	Foundations of Mathematics 110	20	Pre-Calculus 110	20
Chemistry 121	22	Foundations of Mathematics 120	20	Pre-Calculus A 120	21
Chemistry 122	22	<i>Framing and Sheathing 110</i>	7	Pre-Calculus B 120	21
Child Studies 120	10	Gender, Media & Culture 120	14	Pre & AP Calculus AB 120 (3cr)	28
<i>Computer Aided Basic Design 110</i>	6	Geometry 120	20	Psychology 110	26
Computer Science 110	10	<i>Graphic Art & Design 110</i>	16	Psychology 120	26
Computer Science 120	10	<i>Growth, Goals & Grit 120</i>	12	<i>Reading Tutor 120</i>	14
<i>Co-op (Digital Media) 120 (1cr)</i>	9	Hospitality & Tourism 110	12	Recording & Sound Design 120	17
<i>Co-operative Education 120 (3cr)</i>	9	<i>Housing & Design 120</i>	7	<i>Residential Finish 120</i>	8
<i>Co-op (Early Childhood) 120</i>	9	Human Physiology 110	22	<i>Robotics & Technology 120</i>	8
<i>Co-op (Long Term Care) 120</i>	9	Indigenous Literature 120	14	Sociology 120	27
<i>Co-op (PCMP) 120 (1cr)</i>	10	Indigenous Studies 120	26	Spanish 110	25
<i>Co-op (Skilled Trades) 120</i>	9	<i>Individual & Family Dynamics 120</i>	12	Spanish 120	25
<i>Culinary Technology 110/120 Block</i>	6	<i>Internal Combustion Engines 110</i>	7	<i>Theatre/Dramatic Arts 120</i>	16
<i>Culinary Technology 110</i>	6	Introduction to Accounting 120	12	<i>Tune-up & Emissions 120</i>	8
<i>Culinary Technology 120</i>	7	<i>Introduction to Electronics 110</i>	7	<i>Visual Arts 110</i>	17
Cybersecurity & Tech Support 110	10	Introduction to Environmental Science 120	23	<i>Visual Arts 120</i>	17
Digital Production 120	11	Introduction to Sportology 120	18	<i>Wellness Physical Education 110</i>	19
<i>Dramatic Arts 110</i>	16	Information Technology 120	12	World Issues 120	27
EAL 110 Essentials A1.1	15	Journalism 120	14	World Religions 120	27
EAL 110 Essentials A1.2	15	Kinesiology 120	18	Writing 110	14
EAL 110 Writing	15	Law 120	12	Yoga 110	19
EAL 120 Connections A2.1 & A2.2	15	Maintenance Auto 110	6		
EAL 120 Expressions B1.1 & B1.2	15	Mandarin 120	24		

*Local Options are in bold

*Fine Art/Life Role are italicized