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## **Principal's Message**

As you prepare for the next school year, there are a number of important decisions that you must make with regard to selecting appropriate courses to prepare you for the future.

I would encourage you to review the information contained in this Registration Guide to enable you to make informed choices.

Fredericton High School has a large number of courses available and it's important to consult with your teachers, your guidance counsellors and your parents to assist you in your course selections.

F.H.S. has a tradition of excellence and we are very proud of our students and their achievements. "Palma Non Sine Pulvere", our school motto, "success not without work," is important to keep in mind as you continue your education.

I wish you good luck and much success in completing the 2009-10 school year as well as your future endeavours.

Ann E. Krause  
Principal

## General Comments

## RESOURCE PROGRAM

The FHS Resource program is designed to serve the needs of students that need individualized programming, modifications to courses or accommodations within the regular program. This assistance is on a consultative basis for both teachers and parents. Contact with students is generally on a monitoring basis, with some small group and individualized assistance. We also provide an alternate test setting for those students who require testing accommodations that can't be reasonably given in the classroom. Information concerning and access to assistive technology is also available.

### Advanced Placement Programs

Opportunity to prepare and write examinations for "Advanced Placement" is offered to students in certain Grade 12 enriched (level 1) courses. AP gives you the chance to try university-level work in high school, and to gain valuable skills and study habits for university. If you get a "qualifying" grade on the AP Exam, there are thousands of universities worldwide that will give credits or advanced placement for your efforts. Advanced placement courses in a variety of disciplines are offered at FHS. The cost of each AP exam is approximately \$120.00, and is written in May. Additional information is available from Mr. Savoie, Department Heads and Guidance Counsellors. Also, for more information go to:

<http://www.collegeboard.com/students/testing/ap/about.html>

Currently, the following AP courses are being offered at FHS for 2008-2009 if #'s warrant:

Biology (121AP)  
Chemistry (121AP)  
English (121AP)  
Math 121  
Physics (121AP)  
World History 120AP  
Psychology 120AP

### External Credits:

Any credit not issued by a New Brunswick high school must be reviewed and evaluated by FHS. This would include correspondence courses, home schooling and private agency instruction. In all cases, prior permission must be obtained to enroll in external credits if they are to be used for graduation purposes.

### Challenge For Credit/Independent Study

For students who have completed Grade 9 and 10, opportunities exist to allow students to earn additional credits through these programs. See a guidance counsellor for details.

## Local Options

These are courses developed by various FHS departments that have been approved by the N.B. Department of Education.

### Course Changes:

Students with the help of parents are encouraged to make careful and wise choices when registering. After all our students are scheduled, changes to programs are difficult. You are also urged to investigate the requirements of various post-secondary institutions. To aid in this selection, your guidance counsellors are prepared to help in your choice of courses. Ask your teachers or counsellors to help you choose courses if you are unsure as to what to do.

Remember that the number of classes in each subject depends upon the number of students electing that course each spring. Therefore, the school does not decide the number of classes -- you do! The school does not have unlimited resources to make extensive changes after closing in June, so please consider your options carefully, getting as much help as you need before you choose your courses. **Students are not allowed to select course sections based on teacher preference.**

The school can provide four occasions when you may adjust your course selections:

1. Late May or early June - confirmation of courses requested by the student - you receive a **Course Verification Sheet**, which confirms your course choices.
2. End of June - After marks are received - changes based on failures.
3. Early August - Changes based on Summer School results.
4. If you should fail a **compulsory** course in the first semester, some allowance may be made in the second semester to permit you to repeat the **compulsory** course failed. This is always subject to availability of space.
5. **Please note:** Requests for course changes after semester has commenced will not be accommodated.

### Course Load:

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

## General Comments

Continued

### Double Credit:

Two credits will not be given for the same subject taken at the same grade level, e.g. Mathematics 112 and Mathematics 113. However, provision is made for double credit in some courses when the curriculum is substantially different. For further clarification, see your guidance counselor.

**Examinations:** All students must write end of semester examinations. Students not appearing for an examination must have a doctor's certificate. The school will then re-schedule the examination or assign a mark based on the total semester's work. A medical excuse does not exclude a student from any portion of the semester's work.

### Grade Level:

As a general rule courses beyond the grade level in which one is enrolled may not be taken.

### Grade 13 - Post Grads:

Students wishing to return after graduation for improvement may do so on a space available basis. Application must be made through the guidance department. Many post grads opt to upgrade through summer school or NBCC correspondence courses due to extremely limited space in the Fredericton High School schedule.

### Homeroom Advisor:

All students are assigned a homeroom advisor when they enter high school. The Advisor is the home/school contact person for most situations. Parents are encouraged to meet their child's advisor at the earliest opportunity.

### Pre-requisite:

Many courses have pre-requisites. Please read the course descriptions carefully prior to course selection. Students without pre-requisites will not be allowed to take the course.

### Sequence:

Many courses are taken in sequence. For example, Chemistry 112 must be completed before Chemistry 122. Non-sequenced courses will fall in either semester.

### Student Fee:

A fee of \$35.00 consisting of S.R.C. fee, locker fee, handbook fee, examination fee and the student agenda, is payable on opening day in August prior to receiving a Student Schedule.

### Summer School:

A summer school program maybe offered at F.H.S. each year subject to enrollment. The

director of summer school makes available a Summer School Bulletin in early June.

### Timetables:

These are generated by our scheduling system. Courses fall by chance into each semester. For senior students, certain courses required for university and college will not be completed in the first semester. However, applications to post high school institutions will be assessed based on your past, present and predicted performance at the time of application.

### Transfers:

Students transferring to F.H.S. from other systems will have their records assessed, and graduation requirements will be adjusted accordingly. Every effort will be made to give credit for acceptable work accomplished.

### Course # designations:

"0" i.e. Political Science 120 or Child Studies 120. Some are University preparatory, some are not. Please see Guidance.

"1" i.e. Modern History 111 Enriched Studies

"2" i.e. Physics 112 Academic University preparatory.

"3" i.e. General Level. Appropriate for many College level programs. Please see Guidance.

## ***CLASS OF 2009: Graduation Requirements***

### Year 10 Courses Completed

<input type="checkbox"/> FI/Math 10	<input type="checkbox"/> French 10/FI Lang. Arts
<input type="checkbox"/> English 10	<input type="checkbox"/> Personal Development 10
<input type="checkbox"/> FI/Anc/Med History 10	<input type="checkbox"/> Art 10 or Music 10
<input type="checkbox"/> FI/Science 10	<input type="checkbox"/> _____

### YEAR 11 & 12 – COMPULSORY (7)

\_\_\_\_\_ ENGLISH 111, 112, OR 113 (2 Credits)

ENGLISH 121, 122 OR 123

FI/MATH 111, 112 (Geom & Applic)       MATH 113 (Applications)

SCIENCE (one course) from any Physics, Biology, Chemistry, Gen. Science 120, Environmental Science, Robotics & Automated Tech. 120, Engine/Elect. Systems 120, Micro Electronics 120, Introductory Elect 110, and Phys. Geography 110

FI/MODERN HISTORY 111, 112, OR 113

FINE ARTS/LIFE ROLE DEVELOPMENT (1)

Visual Arts 110/120	Family Living 120	Reading Tutor 120
Music 111/112/122/120	Entrepreneurship 110	Co-Op 120
Graphic Arts 110/120	Outdoor Pursuits 110	Co-Op PCMT
Theatre Arts 120	Health & Phys Ed 120	Career Exploration 110

### YEAR 11 & 12 – ELECTIVES (10)

8. _____	15. _____
9. _____	16. _____
10. _____	17. _____
11. _____	18. _____
12. _____	19. _____
13. _____	20. _____
14. _____	

1. Seventeen (17) courses including seven (7) compulsories are required for graduation. Only one of these 17 courses may be a local option course.
2. Five (5) grade 12 credits are required for graduation.
3. Grade 9 English Language Proficiency Assessment.
4. The pass mark effective September 2002 is 60%.

# French Immersion Program

## Courses Offered

FI Biology 112

FI Language Arts 111

FI Language Arts 110

FI Language Arts 120

FI Language Arts 121

FI Law 120

FI Geometry 111, FI Functions 111 or FI Geometry 112, FI Functions 112

FI Modern History 112

FI World Geography 120

FI Techniques De Communication 110

FI Techniques De Communication 120

FI Co-op 120

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

## CERTIFICATE OF PROFICIENCY

The certificate of Oral Proficiency is issued to all **grade 12 students** either in the **Immersion** or the **Core program**. This certificate indicates the student's individual level of proficiency. It is awarded by the Department of Education after an evaluation by professional evaluators. The certificate is presented at the end of each semester.

## CERTIFICATE OF IMMERSION

This certificate is issued by School District 18 and is offered to all students who have completed at least **ten** courses in the **Immersion Program** during grades 10-11-12. The certificate is presented during an assembly in May.

# Grade 11 Students

**Choose ten courses or a combination of courses, which will make up ten credits**

## Compulsory Courses

ENGLISH 111, 112 or 113 (2 credits)

MATH (FI Math) Geometry & Applications 111/112 or Applications in Math 113/113M

MODERN HISTORY 111, 112, or 113

SCIENCE: Physics, Biology, Chemistry, General Science, Environmental Science, Robotics & Automated Tech. 120, Automotive Electrical Systems 120, Micro Electronics 120, Introductory Elect. 110, and Phys. Geography 110

FINE ARTS/LIFE ROLE DEVELOPMENT: Visual Arts 110/120, Family Living 120, Reading Tutor 120, Music 111/112/122/120, Entrepreneurship 110, Co-Op 120, Graphic Arts 110/120, Outdoor Pursuits 110, Co-Op PCMT, Theatre Arts 120, Health & Phys Ed 120, Career Exploration 110

## Elective Courses

Advanced CAD 120

Advanced Keyboarding 110

Biology 111/ or 112/ or 113

Business Communications 110

Care and Maintenance of Vehicles 110

Career Exploration 110 (2 credits)

Chemistry 111 or 112

Computer Aided Basic Drafting 110

Computer Assisted Manufacturing 110

Computer Science 110

Culinary Technology 110/120

Drafting Computer Aided Graphics 120

Early Childhood Services 110

Electrical Wiring 110

Entrepreneurship 110

Fashion Technology 110

FI Biology 112

FI Language Arts 111 or 110

FI World Geography 120

Framing and Sheathing 110

French 111 or 112

Graphic Art & Design 110

Health and Physical Education 120

Hospitality and Tourism 110

Information Technology 110/120

Internal Combustion Engines 110

Introduction to Accounting 120

Independent Living 110

Introductory Electronics 110

Learning Strategies Intervention 110

Mandarin 120

Math /FI Math Functions & Relations 111/112

Math Patterns & Relations 113

Metals Fabrication (Welding) 110

Metals Processing 110

Micro Electronics 120

Mill and Cabinet Work 120

Music 112 (General)

Music 111/112 (Instrumental)

Outdoor Pursuits 110

Parenting 110

Physical Geography 110

Physics 111 or 112

Power Train & Chassis 110

Psychology 110

Residential Finish 120

Spanish 110

Tech Support 110

Visual Art 110

Music 120

Writing 110

**READ COURSE DESCRIPTIONS BEFORE CHOOSING YOUR COURSES! MANY COURSES HAVE PRE-REQUISITES!**

**\*A Reminder that some courses listed will be dropped due to insufficient #'s**

## Grade 12 Students

### Compulsory Course

English 121,122 or 123

### Elective Courses

Choose nine

Accounting 120	Journalism 120
Advanced Computer Aided Drafting 120	Law 120
Advanced Math with an Intro to Calculus 120	Learning Strategies Intervention 120
Advanced Metals Processing 120	Mandarin 120
Automotive Electrical Systems 120	Marketing 120
Biology 121 AP or Biology 122	Math 121
Business Organization and Management 120	Media Studies 120
Canadian Geography 120	Mill and Cabinet Work 120
Canadian History 122	Music 122 (Instrumental)
Canadian Literature 120	Music 120
Chemistry 121 or 122	Native Studies 120
Child Studies 120	Nutrition for Healthy Living 120
Computer Science 120	PCMT Co-op 120
Co-operative Education 120 (3 credits)	Physics 121 AP or 122
Culinary Technology 110/120 (3 credits)	Political Science 120
Differential & Integral Calculus 120	Psychology 120AP
Drafting Computer Aided Graphics 120	Reading Tutor 120
Early Childhood Services 120	Residential Finish 120
Economics 120	Robotics and Automated Technology 120
Environmental Science 122 or 123	Spanish 120
Family Living 120	Sociology 120
Fashion Design 120	Theatre Arts 120
FL Language Arts 121 or 120	Trigonometry and 3-Space 122
FL Law 120	Tune-up & Emission 120
FL Techniques De Communications 120	Visual Arts 120
FL World Geography 120	World History 120AP
French 121 or 122	World Issues 120
Graphic Art and Design 120	
General Science 120	
Health and Physical Education 120	
Housing and Design 120	
Introduction to Accounting 120	
Information Technology 120	

**You must be a potential graduate, with seven or more credits, in order to select courses from this page. You may also elect courses from the grade 11-course offerings.**

**READ COURSE DESCRIPTIONS BEFORE CHOOSING YOUR COURSES! MANY COURSES HAVE PRE-REQUISITES!**

# Course Planning Guide

Use this page to plan your courses.

## Grade 11

1. English 11 (This is a year long course, worth two credits.) \_\_\_\_\_
2. Math /FI Math, Geometry and Applications 112/111 or Application in Math 113 \_\_\_\_\_
3. History 11 or FI History 11 \_\_\_\_\_
4. Science (refer to list on page 8) \_\_\_\_\_
5. Fine Arts/Life Role Development (refer to list on page 8) \_\_\_\_\_
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 six. 17/20 credits are required for graduation.

### 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.

# Course Descriptions

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### **Advice to Students on Choosing Courses**

1. Academic achievement has proven to be the best predictor of future academic success
2. Read all the graduation requirements as they apply to your year of graduation.
3. Before choosing a course, read the course description. Courses are listed by Department.
4. Check with the appropriate person if your course requires an application.
5. Use the charts to map out a tentative high school career plan.
6. Course selection must be taken seriously. Choosing courses haphazardly will only result in disappointment and frustration later.
7. The opportunity for course adjustments prior to a semester is generous. However once a semester has commenced, changes are very difficult to make.
8. Make sure all your courses for the next year are finalized before you leave in June.

**Please keep in mind the entrance requirements for college and university when choosing courses and if necessary see a Guidance Counsellor.**

**Advanced  
Technology  
Studies**

**ADVANCED COMPUTER AIDED**

**DRAFTING 120**

**Course #3044640**

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.

**DRAFTING – COMPUTER AIDED GRAPHICS  
120**

**Course #1039140**

This is an Architectural Design course enabling students to gain further experience and knowledge using the C.A.D. system. Course content includes the house design process, foundations, framing systems, electrical/mechanical systems and building costs. In addition, students construct subdivision plans, floor plans, elevations and electrical/mechanical plans. Students who plan to further their studies in the fields of architecture, civil engineering or building construction would benefit from this course.

**ADVANCED METALS PROCESSING 120**

**Course # 9995200**

This course is designed to provide advanced training in the metals processing area for those students who have successfully completed Metals Processing 110. Emphasis will be placed on conventional machine tool operation as well as the use of specialty metal hand tools. Instructional time is divided between classroom theory and practical labs. This course will appeal to students interested in pursuing a career in metals processing related field such as machinist, tool and die maker, or industrial mechanic. It will also interest those considering future education in mechanical engineering or drafting technology areas or those with a personal interest in the area.

**Pre-requisite:** Metals Processing 110

**AUTOMOTIVE ELECTRICAL SYSTEMS 120**

**Course # 1036240**

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 on 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.

**Pre-requisite:** Internal Combustion Engines 110

**CARE AND MAINTENANCE OF  
VEHICLES 110 (Local Option)**

**Course #3044530**

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

**COMPUTER AIDED BASIC DRAFTING 110**

**Course #1038930**

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. This course can be used as an entrance elective for the University of New Brunswick.

**ELECTRICAL WIRING 110**

**Course #1037530**

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

**FRAMING AND SHEATHING 110**

**Course #1037130**

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.

**Advanced  
Technology  
Studies  
Continued**

**INTERNAL COMBUSTION ENGINES 110  
Course #1036030**

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

**INTRODUCTION TO ELECTRONICS 110  
Course #1037630**

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 and also be used as an entrance elective for the University of New Brunswick.

**Pre-requisite:** Successful completion of Mathematics 10.

**METALS FABRICATION (WELDING) 110  
Course #1039230**

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 metal working and mechanical servicing and many other skilled trades.

**METALS PROCESSING 110  
Course #1039330**

Students in this course develop skills in the operation of lathes, shapers, 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.

**MICRO ELECTRONICS 120  
Course #1037740**

This advanced electronics course utilizes practical wiring, testing and digital logic circuit

labs. Students planning a career at the electrical occupational or engineering levels, or who have a keen interest in electronics/computers should consider this course. This course may be used as a Science credit for graduation purposes and may also be used as an entrance elective for the University of New Brunswick.

**Pre-requisite:** Introductory Electronics 110

**MILL AND CABINET WORK 120  
Course #1037340**

Students in this course build a series of wooden products to learn the safe operation of woodworking tools and equipment, project planning and estimating and finish 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.

**POWER TRAIN AND CHASSIS 110  
Course #1036130**

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.

**RESIDENTIAL FINISH AND INSULATION 120  
Course #1037440**

This advanced building construction course enables students to acquire knowledge and skills in the installation interior and of insulation, wall and ceiling cladding and the installation of trim, doors and windows. This course will be of interest to students exploring career opportunities in the building construction industry.

**Advanced  
Technology  
Studies  
Continued**

**ROBOTICS AND AUTOMATED  
TECHNOLOGY 120  
Course #1039440**

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 and may also be used as an entrance elective for the University of New Brunswick.

**TUNE-UP AND EMISSION 120  
Course #1036340**

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

**Pre-requisite:** Internal Combustion Engines 110 and Automotive Electrical Systems 120.

**ADVANCED KEYBOARDING 110  
Course # 3044930**

This keyboarding course will assist students in developing a touch keyboarding skill and the ability to format in *Microsoft Word*. Students will learn to format personal and business letters, cover letters, resumes, 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 university and will be required to complete formal assignments properly. In our computer-based society this is a life skill.

**Text:** *Information Processing Book One  
Gregg Typing Series Seven*

**BUSINESS COMMUNICATIONS 110  
Course #1036630**

This course is for students who wish to enhance their knowledge and use of English, both written and spoken. The course provides basic communication skills for students who wish to concentrate on grammar, spelling, punctuation, vocabulary, letter writing, and public speaking. This course is highly recommended for students who want to improve their skills working with English and also those who plan to continue on into post-secondary education. EAL students will definitely benefit from the practical content of this course.

**Text & Workbook:** *Business English and Communications*

**Text:** *Word Studies*

**BUSINESS ORGANIZATION AND  
MANAGEMENT 120  
Course #1036740**

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, finance, ethics, advances in information technology, understanding the stock market, and labour management relations. Guest speakers are used to enhance the students' learning environment for realistic business decision making.

**Pre-requisite:** It is suggested that students have a senior high school college preparatory mathematics credit.

**Text:** *An Introduction to Canadian Business*

**CAREER EXPLORATION 110 (2 cr)  
Course # 1045530**

A two-credit course aimed at offering students the opportunity to explore their personal potential and learn about areas of interest through a combination of in-school and out-of-school learning experiences. Students will spend part of their time in the classroom learning basic job skills, health & safety practices, and exploring their personal characteristics and skills. After the initial in-school component, students will spend the afternoon in a workplace of their choice developing skills that will assist them in preparing for the future upon completion of high school.

A variety of work placement options will be available to students on a first come, first served basis. Parental assistance and input is welcome. Transportation to and/or from the placement will be the responsibility of the student. Regular attendance and appropriate behaviour at school and at work are essential expectations. A contract will be signed by each student at the beginning of the course. Not meeting the expectations may result in removal from the work placement and course, resulting in the loss of 2 credits.

Students must complete an application available from the guidance department and submit it no later than March 30. An interview will be scheduled at a later date.

**COMPUTER SCIENCE 110  
Course #1038530**

This is an introductory course in structured programming in VISUAL BASIC language. The theory component is limited to programming applications. Visual Basic 6.0 is used. 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 (70%+) before considering this course. Students who will make extensive use of the computer as a problem-solving tool in future studies and career will find this course of value (engineering, engineering technology, business administration/technology and science).

**Business &  
Information  
Technology  
Department  
Continued**

**COMPUTER SCIENCE 120  
Course #1238540**

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 microcomputer usage and applications. A desirable course for students intending to follow a computer science or data analysis program at post-secondary institution. Preference will be given to students demonstrating strong performance skills in Computer Science 110. Course Delivery: Web CT

**Pre-requisite:** Computer Science 110

**CO-OPERATIVE EDUCATION 120 (3 cr)  
Course #1045240**

The Co-operative Education program provides students with an opportunity to explore a tentative career and to earn school credits. Students learn on-the-job, at a workstation, in a chosen career field. After completing the initial in-class component, students will work three hours each morning for the remainder of the semester. Students who would benefit from this program could include high achieving students who want the benefit of practical experience before making career decisions, students who plan to pursue studies at community college, or those who plan to enter employment upon leaving high school.

Expectations:

- completion of all written assignments and a final project.
- use of a timeclock and weekly log sheets
- regular attendance at school and at work
- appropriate behavior at the work placement as a representative of FHS
- must have transportation to/from work
- **submission of an application no later than March 30 (available from guidance)**
- an interview will be scheduled for a later date.

Acceptance in the course is based on the application, transcript to support desired career choice, and teacher recommendations. A contract will be signed by each student at the beginning of the course. Not meeting the expectations may result in removal from the work placement and course, resulting in the loss of 3 credits.

**NOTE: FINE ART/LIFE ROLE DEVELOPMENT COURSE**

**FI CO-OP 120 (3 credits)**

**Course #1045240**

Students will receive course instruction in English. A French work placement will be secured (limited fields available in Fredericton).

**Two of the three credits will be considered**

**F.I.** Students must complete an application from

the guidance department and submit it no later than March 30.

**Pre-requisite:** Students must be graduating and have a transcript, which supports their career plans.

**Text:** *Expanding Your Horizons  
Your Attitude Counts*

**INFORMATION TECHNOLOGY 120**

**Course #1038640**

Information Technology 120 is designed to give students of the information processing tools currently available through Microsoft Office 2000. These skills will be of use to students in their post-secondary endeavors. Topics include Microsoft Word, PowerPoint, Excel, Access and Web Design.

**ENTREPRENEURSHIP 110**

**Course #1036530**

An exploratory course for students interested in the world of small business, this course is designed to involve students in the development of ideas, attitudes and skills necessary to bring business ideas to the marketplace. The unique focus of the course allows students to see themselves as small business people and thereby more readily appreciate the wide range of opportunities available to the creator of an idea, the owner-operator of a business, or the employer-manager of a small business establishment in today's global economy. If you want to start your own business someday; or are just interested in how business works—this course is for you.

**Texts:** *Entrepreneurship: Creating A Venture*

**NOTE: FINE ART/LIFE ROLE DEVELOPMENT COURSE**

**INTRODUCTION TO ACCOUNTING 120**

**Course #1036840**

This accounting course introduces students to procedures, concepts and applications. Topics which will be covered include: the nature of business, accounting as a possible career, bookkeeping procedures, accounting theory, the accounting cycle, subsidiary ledger systems, inventory control systems, accounting controls, adjustments, and closing entries. In addition we will look at various forms of business enterprises such as sole proprietorships, partnerships and corporations.

Time will also be spent in analyzing the financial statements for a business. This course is designed for those students who intend to pursue studies in business at a post-secondary institution.

**Text & Workbook:** *Accounting 1*

**Business &  
Information  
Technology  
Department  
Continued**

**LAW 120**

**Course #1010740**

This course will provide the student with a basic knowledge of the Canadian legal systems, its operations, and an awareness of the impact of the law on their lives. It will provide an introduction to the concepts and principles of civil and criminal law. Major topics include foundations of the legal system, criminal law, human rights, sport law, environmental law, torts, and family and estate law. Students will have a greater understanding of legal aspects taught in class with exposure to guest speakers, a courtroom visit and daily current event discussions.

**Texts:** *Law in Action and All About Law*

**MARKETING 120 (Local option)**

**Course #3044830**

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: 1) What is marketing 2) The Consumer, 3) Product Development, 4) Positioning and Branding, 5) Advertising promotion and sales. This course will be of significant interest and benefit to students:  
Pursuing a career in marketing  
Planning to attend a Business College  
Pursuing a Bachelor of Business Administration or Commerce degree  
A portion of the course will involve self-directed learning whereby the student will demonstrate their understanding of the material through project work.

**Text:** *The World of Marketing, A Canadian Perspective*

**PCMT CO-OP 120 (Personal Computer Maintenance & Troubleshooting) (1 cr)**

**Course #1045040**

PCMT Co-op 120 qualifies as one or two on-site Co-op 120 credit(s) with an emphasis on providing computer support for FHS. Students disassemble and assemble computers and provide service and repair of its hardware and software components. Regular software upgrades, installation of new programs, adding of new computers to the internet and troubleshooting individual systems are regular activities which have to be performed. An interest in computers with good recommendations from current teachers is required.

**Pre-requisite:** Previous computer experience and successful completion of computer-related courses.

**TECH SUPPORT 110**

**Course #1038430**

This course provides comprehensive instruction in the servicing of microcomputers and peripheral devices; PC Hardware, DOS and Windows, Networking, and Printers. Hands-on activities complement theory through technical support within the workshop. This experience will be of the utmost value for successful completion of the course. Students having successfully completed all required objectives will have the option of writing the A+ Certification exams (at their own expense).

## English

Personal growth and societal progress depend upon teaching individuals to think clearly, to organize their thoughts in a logical manner, to read, to listen, to view with discrimination and to express themselves clearly in writing and speech. The secondary English program is organized around the development of these important concepts in the language arts. Through the high school years, students will continue to develop an awareness of how language works in a wide range of genres and will develop flexibility in using language.

Note: In each of the compulsory English courses, students are asked to pay a viewing fee to help defray the costs of visiting performances and curriculum related films. Two elective courses may require extra materials: Media Studies 120 and Theatre Arts 120. A list will be provided at the beginning of the semester and students will be expected to purchase these items.

### **ENGLISH 111 (2 credits)**

#### **Course #1000031**

This course is an enriched program recommended for students who have received a minimum mark of 85% in Grade 10 English and who enjoy English literature, Fiction, Non-Fiction, Poetry and Drama in its many forms, both creative and formal. A focus will be given to writing concisely and coherently. Students will be required to complete a major Semester Project for the course, much of which will be completed outside of school.

**NOTE: A full year course**

### **ENGLISH 112 (2 credits)**

#### **Course #1000032**

This course is designed for students who wish to pursue post-secondary studies. Areas of study include: language study and composition, use of research, oral work, prose fiction including the essay and the novel, drama, supplementary reading, and work related to the mass media.

**Note: A full year course**

### **ENGLISH 113**

#### **Course #1000033**

This course is designed for students who may not wish to pursue post-secondary studies. This course emphasizes clarity of communication. Students will focus on practical writing skills. Areas of study include: Fiction and non-fiction, newspapers, magazines, novels, supplementary reading, resume writing, types of letters, etc.

**Note: A full year course**

### **ENGLISH 121 (one credit)**

This advanced level course provides opportunity for the student to appreciate, experience and interpret classical literature through group discussion and an application of literary criticism. Class members are expected to contribute to guided discussions and are urged to develop an independent approach to their understanding of textual material. A minimum mark of 85% in English 111/112 is strongly recommended.

### **ENGLISH 121/ AP (1 credit)**

#### **Course #1000041**

This is an opportunity for the student to receive enrichment. It includes the material used in the English 122 course as well as additional studies such as a modern play and/or novel for comparison and contrast. Students' participation in discussions is an important aspect of the course. A minimum mark of 85% in English 111/112 is recommended.

**Note: Semester course**

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

#### **Course #1000042**

This course is sequential to English 112. The reading skills developed to this point will be extensively exercised and strengthened. The course will include the following areas of study: various forms of composition; at least one Victorian or Modern novel; one Shakespearean tragedy; poetry and supplementary reading.

**Note: Semester course**

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

#### **Course #1000043**

This course is designed for students who are not currently planning to pursue post-secondary studies. Communication skills developed to this point will continue to be emphasized and strengthened. Using a variety of authorized texts the students continue their study of fiction, poetry, and drama. Writing assignments combine responses to the works studied with a practical application of writing.

**Note: Semester course**

**English  
continued**

**CANADIAN LITERATURE 120**

**Course # 1000540**

This is an elective course for grade twelve students who may take Canadian Literature 120 in addition to the regular grade twelve English courses. Students selecting this course should have a high interest level in English. Areas of study may include any or all of the following units: Canadian Identity, Historical and Literary Highlights, The Canadian Novel, Regional Literature, Canadian Native Literature, Women in Canadian Literature, Canadian Humour, Canadian Drama, Canadian Poetry, The Canadian Short Story, The Canadian Essay.

**Note: Semester course**

**JOURNALISM 120**

**Course #1000340**

An elective course for students in their graduating year, Journalism 120 is intended for those who wish to explore journalism as a career or field of study following high school. Students who have taken Writing 110 or who

have done well in English or History courses might be interested in Journalism 120.

Participants will be involved in the intensive practice of writing stories and articles in various journalistic styles. This course is for writers' not just critics of writing. Thus students must commit to practical outcomes and work towards publication of their work. Some extra curricular effort will be required also.

**Note: Semester course**

**LEARNING STRATEGIES INTERVENTION 110**

**Course #1000230**

This elective course was designed to assist students with identified processing difficulties who have academic potential and whose goals are to take post-secondary studies. The program includes learning skills identification, knowledge of accommodations, development of literary skills, study skills and application as well as knowledge of the transition process. This course will enable students to cope more successfully with their high school courses and develop the skills and attitudes that will allow them to make a more successful transition to post-secondary studies. Permission to take this course is restricted to those with prior approval from the SPR for Resource.

**LEARNING STRATEGIES INTERVENTION 120**

**Course #1000240**

This elective course builds on the skills and knowledge obtained in the Learning Strategies Intervention Course 110. Permission to take this course is restricted to those with prior approval from the SPR for Resource.

**MEDIA STUDIES 120**

**Course #1000440**

Media Studies 120 is an elective course for grade twelve students (those who will have enough credits to graduate in the year that they take it). In a world dominated by the mass media, this course is designed to help senior students become media literate and understand the impact of mass media on society and culture. Students learn by experiment and exploration from this activity based course. Areas of focus will include popular culture, television/video, film, photography, journalism, and advertising. Students enrolling in Media

Studies must be mature enough to meet the high level of independence, reliability and responsibility required of them.

**Note: Semester course**

**READING TUTOR 120**

**Course #1000640**

This course presents a unique opportunity for grade 12 students with high academic achievement 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, to acquire leadership skills, and to experience a real-life-teaching situation. This course is recommended for those planning careers in education, guidance or the social services.

**Note: May be used as a Fine Art/Life Role Development credit.**

**Note: Semester course**

**THEATRE ARTS 120**

**Course #1020140**

**Fine Arts/Life Role Development Course**

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

**Note: May be used as a Fine Art/Life Role Development credit.**

**Note: Semester course**

**English  
continued**

**WRITING 110  
Course #1000130**

Writing 110 is an elective course for grade 11 or 12 students who wish to improve and/or enrich their writing skills. The focus will be on writing as a process - brainstorming, outlining, drafting, polishing and publishing. Many formats will be explored such as free writing, exposition, description, process analysis, narration, book/movie reviews. Within the course structure there is opportunity for creative expression. Assessment will be frequent and will include Portfolio Assessment, tests, term projects and desktop publishing assignments. Only students with a genuine interest in writing need apply.

**Note: Semester course**

## Family Studies Dept.

Courses in our department will provide fundamental and practical applications for life's decisions. Consider your talents, your interests and alternatives for your future.

### **CHILD STUDIES 120**

#### **Course #1015240**

This course is designed for students who hold professional career interests in child development and, therefore, are interested in 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. Recent research on learning strategies and intelligence as well as attachment theories are a major focus.

**Reference Text:** *The Developing Child* by Brisbane and *Working with Young Children* by Goodhart.

### **CULINARY TECHNOLOGY 110/120**

#### **Course #1037831/#1037841**

The Culinary Technology Program is designed to prepare students for employment and/or future education in the food service industry. This technology-driven and 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. Students will operate the Future Chefs Café, which is open to the public. Learning experiences include planning, costing, and preparation for food service. Culinary Technology 120 must be taken concurrently with 110. This course requires the student to sign a contract explaining the hours required outside the regular school day. **It is a 2-credit course.**

### **EARLY CHILDHOOD SERVICES 120**

#### **Course #1015140**

This course explores child development principles of children birth to 6 years old. Topics such as history of early childhood education, play and discipline as related to early childhood education, and qualities of an early childhood worker. Students will also explore other options in the field of early childhood. Current daycare guidelines will be looked at. Students will plan lessons to teach children ages 4-6 and will compile a portfolio of lesson plans. One day will be set aside for some daycare observation.

**Reference Texts:** *The Developing Child* by Brisbane and *Working with Young Children* by Goodhart.

### **FAMILY LIVING 120**

#### **Course #1015340**

The main theme of this course is the individual in relation to family, friends and society. Students will explore their own personal development through the study of themselves and their relationships with others. Topics such as personality development, relationships, dating, love, marriage and family, sexuality, reproductive systems, birth control and sexually transmitted diseases will be studied. This course is an excellent introduction to studies in sociology, psychology, teaching social work and family life education. This is a Fine Arts/Life Role Development course.

**Reference Text:** *Families Today* by Connie Sasse, *Strengthening Family and Self* by Leona Johnson

### **FASHION TECHNOLOGY 110**

#### **Course #1038030**

This course explores the various techniques and equipment used in the Fashion Industry to construct and assemble various garments and products within the Industry. The students will examine the world of textiles. They will explore such areas as natural and man-made classification of fibers, yarn and fabric structure and finishing of fabrics. Project work involves basic construction techniques, small construction projects and the completion of a personal garment. Students will learn the operation of a variety of sewing machines and sergers.

Lab fee \$5.00 and project supplies.

### **FASHION DESIGN 120**

#### **Course #1038140**

Fashion Design 120 is designed to provide an educational program that bridge student's goals with industry needs. Couturier-designer studies, the Canadian clothing industry, fashion promotion and reporting, textile identification, product knowledge and the elements and principles of design are essential components of Fashion Design 120. This course will give students an insight into the exciting world of the Canadian fashion industry. Project work will include designing a basic item, sketching and construction of a garment from a commercial pattern. Successful completion of Fashion Technology 110 with a mark of at least 70%, is required.

**Lab Fee: \$5.00**

**Pre-requisite:** Fashion Technology 110

**Family  
Studies  
Dept.  
Continued**

**HOSPITALITY AND TOURISM 110**

**Course #1037930**

Hospitality and Tourism 110 explores the fastest growing sector of the Canadian economy, the Hospitality and Tourism Industry. Students will explore eight sector of the Travel Industry which include Accommodations, Food and Beverage, Adventure Travel and Recreation, Events and Conferences, Travel Trade, Tourism Services and Transportation. Students will learn the theories related to the Industry. The historical aspects of the profession will be explored to determine the present and future trends in travel and tourism. The student will have an opportunity to develop skills in the area of professional hospitality, customer relations and quality customer service. These transferable skills may be used for any future employment opportunity. The travel focus will be on the five scenic drives in New Brunswick.

**HOUSING AND DESIGN 120**

**Course #1038240**

This course explores various aspects of housing and design through knowledge and applications. Students will explore topics such as architecture and housing styles, 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**

**Reference Text:** *Homes Today and Tomorrow* by Ruth Sehrwood.

**Lab Fee:**

**INDEPENDENT LIVING 110 (Local option)**

**Course #3049030**

This course is designed to help you prepare to live on your own. Students will explore topics such as learning to manage your finances, housing options (renting vs. buying), buying a car, being a good consumer, meal planning and shopping, living a healthy lifestyle, personal care and responsible citizenship. Students will gain knowledge and life skills necessary to be more independent and successful when they live on their own. Welcome to the real world!

**Lab Fee: \$5.00**

**Reference Texts:** *Creative Living Skills*, by Couch, *Felstehausen and Clark*, and *Life on Your Won* by Glencoe.

**NUTRITION FOR HEALTHY LIVING 120**

**Course #1015440**

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.

The energy providing nutrients; carbohydrates, fats and protein, are a major focus. Foods labs supplement course content and provide healthy alternatives to conventional meals and snacks. They also allow students the opportunity for a hands – on approach to healthier lifestyle choices without compromising taste.

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.

**Lab Fee: \$5.00**

**Reference Text:** *Nutrition, Food and Fitness – The Science of Wellness* by Dorothy West

**PARENTING 110 (Local option)**

**Course #3017430**

One of the most important and most demanding jobs you will ever have is to be a parent. This course is designed to help students understand and cope with the many challenges of being a parent. Students will gain insight into the world of childhood from a parental perspective. Topics such as parenting styles, discipline, children's self esteem, children's health and nutrition and parental stress will be explored.

**Reference Texts:** *Parenting: Rewards and Responsibilities* by Dr. Verna Hildebrand.

**PSYCHOLOGY 110 (Local option)**

**Course #3017330**

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 things such as – how people are able to perceive color, how hunger is regulated by the brain, what causes bullying and aggression, abnormal behavior and much more. 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.

**Reference Text:** *Thinking About Psychology – The Science of mind and Behavior* by Blair-Broeker & Ernst

**Family  
Studies  
Dept.  
Continued**

**ADVANCED PLACEMENT PSYCHOLOGY 120  
Course # 4017340**

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

**Reference Text:** *Psychology – Themes and Variations (First Canadian Edition)* by Wayne Weiten & Doug McCann.

## Fine Arts

**Note: Any of the courses in the Fine Arts Dept. may be used as a Fine Arts/Life Role Development credit in the Graduation Requirements.**

### **MUSIC 111/112A (General)**

#### **Course #1020231**

This course is designed for the student who has the ability to read music and plays a non-band instrument. Approximately 50% of the class time is spent on developing playing technique and performing a varied repertoire. The balance of the time is spent on theory and music appreciation. Students will either be awarded a level one or level two credit, dependent on the level of outcomes attained.

### **MUSIC 111/112B (Instrumental)**

#### **Course #1020233**

This course is for anyone who has played a **concert band instrument** for the last three or more years or who is currently studying music privately and has a strong reading ability. Approximately 50% of class time is spent on developing playing technique and performing a varied repertoire. The balance of the time is spent on theory and music appreciation. Students will either be awarded a level one or level two credit, dependent on the level of outcomes attained.

### **MUSIC 122 (Instrumental)**

#### **Course #1020242**

Students enrolling in this course must have successfully completed Music 112 or have private music study equivalent to grade 6 instrumental or voice AND grade 2 theory offered by the Royal Conservatory of Music or equivalent. The Music 122 course is constructed in a style that can be described as a "guided independent study". The course is comprised of 6 units, which are designed to encourage the students to research, analyze, and create music. Students will also learn to compose and use recording equipment.

### **MUSIC 120 (World Music)**

#### **Course #1020240**

This course is designed for the student who has an interest in world music. This non-performing course has been designed to encourage research, presentations, discussions and musical learnings in and about a variety of different world musical traditions, many of which have had a direct influence on our own cultural identity. This course will help the student better understand the importance of music to a wide variety of peoples and cultures. Students will also have an opportunity to explore hand drumming techniques of Western Africa.

This course is open to grade 11 and 12 students.

## **VISUAL ART**

Two levels of Visual Art instruction are presently offered at Fredericton High School. Visual Art 110 and 120 are designed to be taken sequentially. In each of the two levels you will be involved in making art, in learning to critically analyze art and in studying art of the past and present. There is a \$20 studio fee for all grade 10, 11 & 12 Art classes to cover the cost of consumable material.

### **VISUAL ARTS 110**

#### **Course #1020030**

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

**There is a studio fee of \$20.00 to help cover the cost of materials used in this course.**

### **VISUAL ARTS 120**

#### **Course #1020040**

This is the second course of the two semester Visual Art Program. Many of the same areas as in the Visual Arts 110 will be covered but in much greater depth with an emphasis on further developing the personal style and direction you began in Visual Art 10. You will also develop a presentation portfolio of your artwork.

**Pre-requisite :** Successful completion of Visual Arts 110.

**There is a studio fee of \$20.00 to help cover the cost of materials used in this course.**

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

#### **Course #1020430**

If you find logos, comics, T-shirt design or illustrations interesting and would like to learn how to successfully create them, then Graphic Art and Design 110 will prove both enjoyable and useful.

You will learn the technical side of the graphic process along with how to communicate your own original ideas. Images will be created by hand and/or scanned and manipulated by the use of a computer.

**There is a studio fee of \$20.00 to help cover the cost of materials used in this course.**

**Fine Arts  
continued**

**GRAPHIC ART AND DESIGN 120  
Course #3020440**

This course builds on the graphic skills acquired in Graphic Art and Design 110 by allowing the student to explore in depth a personal style and direction in the graphic arts. This direction could be in comic art, illustration, cd cover design, corporate identity design, t-shirt design, typography or book layout and binding. Images will be created by hand and/or scanned and manipulated on a computer. Students wishing to continue on in a post secondary program will have the opportunity to develop a presentation portfolio of their design work.

**There is a \$20.00 studio fee for this course.**

**Pre-requisite:** Graphic Art and Design 110

## Health And Physical Education

Automation and technology have freed many from exhausting physical and mental health and physical fitness. In today's society, because of the free time, which has been available to most people, a need for the development of lifetime recreational skills has arisen. Health and Physical Education 120 is designed to address these needs.

### **PHYSICAL EDUCATION 120 (Leadership) Course #1017640**

The focus of this course is to create leadership experiences through the medium of physical education and recreation.

The course will consist of some or all of the following inter-related units: Leadership Theory, Sports Administration, Teaching, Officiating, Coaching and Sports Medicine.

Students must satisfy the commitment to 30 hours of extracurricular involvement outside of normal class time. Some of this time will be assigned at lunch hour assisting with the intramural program. Students failing to complete this 30 hours will not receive the credit.

#### **Evaluation:**

5%	Notebook
20%	Class mark (attendance, attitude, participation, gym clothes)
20%	Project/Teaching
25%	Tests/Assignment
10%	Volunteer hours** Above the minimum requirement
<u>20%</u>	Exam
100%	

Students will be required to teach during class time. This can be in school or outside of school provided facilities and transportation can be arranged.

### **Admission Requirements for Leadership 120 Phys. Ed.**

1. Students must have at least a 90% attendance during the previous academic year.
2. It is recommended that students have an overall academic average of at least 70%.
3. Consideration for entrance into this course is based upon the fact that it is a recognized University entrance credit.

### **OUTDOOR PURSUITS 110 Course #1017530**

This course is an elective with grade 9 or 10 Physical Education as a prerequisite. The course will develop personal outdoor recreation skills based on environmental ethics. Students

must satisfy a requirement to complete a series of out-trips that maybe day-trips, excursions or extended trips. The course will take advantage of local outdoor access and could include camping, hiking, canoeing and other outdoor adventure activities. Students must be prepared to plan, lead and evaluate out-trip experiences from personal and group dynamics perspectives.

#### **Admission Requirements:**

1. Students must have at least a 90% attendance during the previous academic year.
2. It is recommended that students have an overall academic average of at least 75%.
3. Must have 2 letters of Recommendation from previous high school teachers.

Having fulfilled all of the above requirements does not guarantee you a place in the course. (There is a limited enrollment of 20 students in this course). **Be sure to choose another course in the event you are not chosen for this course.**

There is a mandatory Registration Fee of \$75, payable at the beginning of the course. This fee is to try and help offset some of the costs, such as transportation, equipment rental, etc.

**Note:** Both Physical Education 120 and Outdoor Pursuits are Fine Arts/Life Role Development courses.

## Mathematics

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

Educational goals for students must reflect the importance of mathematical literacy. Toward this end, the NCTM (National Council of Teachers of Mathematics) Curriculum and Evaluation Standards document articulates five general goals for students:

1. That they learn to value mathematics,
2. That they become confident in their ability to do mathematics,
3. That they become mathematical problem solvers,
4. That they learn to communicate mathematically,
5. That they learn to reason mathematically.

Level 1 courses: “designed for particularly talented students of mathematics, are characterized by both more sophisticated engagement with mathematical concepts and techniques, and the extension of some topics beyond the scope provided at Level 2.”

Level 2 courses: “greater attention to abstraction and more sophisticated generalizations.”

Level 3 courses: “characterized by a greater focus on concrete activities, models, and applications, with less emphasis given to formalism, symbolism, computational or symbol-manipulating facility, and mathematical structure.”

As described in the Atlantic Canada Mathematics Curriculum for Functions and Relations 111/112 page 7.

### GRADE 11 MATHEMATICS COURSES

Two mathematics courses are offered in Grade 11.

**Course 1 is compulsory for graduation.**

**Course 2 is an elective course.**

**Course 1: Geometry and Applications 111/112, OR Applications in Mathematics 113.**

**Course 2: Functions and Relations 111/112 OR Patterns and Relations 113.**

### GRADE 12 MATHEMATICS COURSES

Three mathematics courses are offered in Grade 12. All are electives. Advanced Math with an Introduction to Calculus 120. Trigonometry and

3-Space 122. Differential and Integral Calculus 120. Geometry and Application 111/112 and Functions and Relations 111/112 are prerequisite for both Advanced Math with an Introduction to Calculus and Trig and 3-Space. Advanced Math with an Introduction to Calculus is the prerequisite for Calculus while Trig and 3-Space is a co-requisite.

### GEOMETRY AND APPLICATIONS 112

#### MATH/FIMATH 112 Course one.

#### Course #1030132

Geometry and Applications (or Applications in Mathematics 113) is compulsory for graduation. It is a 90 hour course designed to provide a mathematics program for students who may wish to pursue studies that require the learning of advanced mathematics at post-secondary institutions. Course topics include probability, circle geometry, statistics and an independent study unit.

**Pre-requisite:** Mathematics 10

**Text:** *Mathematical Modeling (Nelson), Books 2 and 3.*

### FUNCTIONS & RELATIONS 112

#### MATH/FIMAT 112 COURSE TWO,

#### Course #1030332

Functions and Relations is an elective course. This course is designed for students planning to pursue studies that require the learning of advanced mathematics at post-secondary institutions. Topics covered include quadratics, rate of change, exponential growth, and applications of trigonometry.

**Pre-requisite:** Mathematics 10

**Text:** *Mathematical Modeling (Nelson), Books 2 and 3.*

### GEOMETRY 111/FUNCTIONS 111

#### MATH/FIMATH COURSE 1/COURSE 2

#### Course #1030131 & COURSE #1030331

Students who enroll in these courses must have a special interest and ability in Mathematics.

The Course is similar in outline to Mathematics 112, Course 1 and Course 2, but a wider range of study and research materials will require greater use of higher thinking level skills.

**Text:** *Mathematical Modeling (Nelson), Books 2 and 3*

**Mathematics  
continued**

## **APPLICATIONS IN MATHEMATICS 113**

### **Course # 1030233**

Applications in Mathematics (or Geometry and Applications) is compulsory for graduation. The course is designed for students who may not be intending to pursue studies requiring the learning of advanced mathematics at post-secondary institutions.

Topics include probability, consumer decisions, statistics, and an independent study.

**Pre-requisite:** Mathematics 10

**Text:** *Constructing Mathematics(Nelson), Books 2 and 3*

## **PATTERNS AND RELATIONS 113**

### **Course # 1030433**

Course 2 is an elective course for students who may not be intending to pursue studies requiring the learning of advanced mathematics at post secondary institutions. Course topics include: applications of trigonometry, patterns, quadratics, and exponential growth. It is strongly recommended that students successfully complete applications in Mathematics 113 first.

**Text:** *Constructing Mathematics(Nelson), Books 2 and 3.*

## **TRIGONOMETRY AND 3-SPACE 122**

### **Course #1030542**

This course is designed for students who wish to pursue studies that require the learning of advanced mathematics at post-secondary institutions. The topics included are algebra of 3-space, trigonometry functions, trigonometric equations and identities, and further studies in trigonometry.

**Pre-requisite:** Geometry and Applications 111/112 and Functions and Relations 111/112. A minimum mark of 70% is recommended in Functions and Relations to be successful in this course.

**Text:** *Mathematical Modeling (Nelson) Books 2 and 4*

## **ADVANCED MATHEMATICS WITH AN INTRODUCTION TO CALCULUS 120**

### **Course #1030640**

This course is designed for the students who wish to pursue studies which require the learning of advanced mathematics at post-secondary institutions. The topics covered include sequences and series, functions, and complex number.

**Pre-requisite:** Geometry and Applications 111/112 and Functions and Relations 111/112. It is recommended that a minimum mark of 70% be attained in Functions and Relations to be successful in Advanced Math.

**Text:** *Mathematical Modeling (Nelson) Book 4*

## **DIFFERENTIAL AND INTEGRAL CALCULUS 120**

### **Course #3034840**

This course is designed for students who wish to pursue studies that require the learning of advanced mathematics at post-secondary institutions. Topics to be covered in the course will include limits, rates of change, area under a curve, derivatives of various functions, applications of derivatives, extrema, curve sketching, integration, and the Fundamental Theorem of Calculus

**Pre-requisite:** Advanced Mathematics with an Introduction to Calculus 120. Minimum mark of 70% recommended in Advanced Math to be successful in Calculus.

**Co-requisite:** Trigonometry and 3-Space 122.

**Text:** *Calculus (Stewart, Davison, Ferroni)*

## **MATHEMATICS 121**

### **Course # 3030641**

Students enrolling in this full year course will receive credits for Advanced Mathematics with an Introduction to Calculus 121, Trigonometry and 3-Space 121, and AP Calculus 120. This course is an enriched program of study covering three semesters of work in two. It is designed to challenge students with a keen interest and ability in mathematics who will be pursuing studies that require the learning of advanced mathematics at post-secondary institutions. Topics covered as described above.

**Pre-requisite:** Geometry and Applications 111/112 and Functions and Relations 111/112 AND recommendation of your grade 11 math teacher.

**Texts:** *Mathematical Modeling (Nelson) Books 2 and 4 Calculus (Stewart)*

## Science

### **BIOLOGY 111**

#### **Course # 1025131**

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.

**Text:** Prentice Hall Biology

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

#### **Course # 1025132**

This course is geared to the average student in Grade 11 who has 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 five kingdoms of living organisms.

**Text:** *Prentice Hall Biology  
Biologie 11(FI Biology 112)*

### **BIOLOGY 113**

#### **Course # 1025133**

This course places special emphasis on human life functions such as nutrition, transport, respiration, excretion, regulation, and reproduction. Other topics include ecology, cell structure and function, health and disease. There is some laboratory work involving use of microscopes and dissections.

**Text:** *Globe Biology*

### **BIOLOGY 121**

#### **Course # 3225141**

This course is designed for grade 12 students who have demonstrated a high level of achievement in previous science courses. Topics covered include biochemistry, cellular respiration, photosynthesis, cell cycle and reproduction, 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.

**Pre-requisite:** Biology 111/112

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

**Text:** *Campbell (5<sup>th</sup> edition)*

### **BIOLOGY 122/FI BIOLOGY 122**

#### **Course # 1025142**

This course is recommended for students in grade 12 who intend to study science at University. Topics such as cell biology, genetics, gene therapy, biotechnology and human physiology will be covered. A background in chemistry would be helpful but is not a formal prerequisite.

**Text:** *Prentice Hall Biology  
Biologie 11 (FI Biology 122)*

### **CHEMISTRY 111**

#### **Course # 1025331**

This is an enriched chemistry course designed for students who are planning to take courses in science or engineering at the university level. Students selecting this course should have better than average ability in science and mathematics. The course covers all of the topics covered in Chemistry 112, with enrichment, and it also includes atomic and molecular orbital theory and gas laws.

**Text:** *Nelson Chemistry (Atlantic Edition)*

### **CHEMISTRY 112**

#### **Course #1025332**

This is an introductory course in which emphasis is placed on teaching chemistry using the scientific method. Students are actively involved in the development of chemical ideas through laboratory experiences. Topics covered are chemical reactions, solutions, chemical reaction calculations and chemical bonding.

**Text:** *Nelson Chemistry (Atlantic Edition)*

### **CHEMISTRY 121**

#### **Course #1025341**

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 the 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.

**Pre-requisite:** Chemistry 111/112

**Text:** Zumdahl, Chemistry (6<sup>th</sup> edition)

### **CHEMISTRY 122**

#### **Course #1025342**

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

**Pre-requisite:** Chemistry 111/112

**Text:** *Nelson chemistry (Atlantic Edition)*

**Science**  
Continued

**ENVIRONMENTAL SCIENCE 122**  
**Course #1025242**

This is a course for students in grade twelve who wish to become more familiar with their environment. Topics covered are interactions within ecosystems, biodiversity, atmospheric changes, energy sources and waste management. Emphasis is placed on keeping up with current environmental issues and class discussion. There is the possibility of field trips and/or a presentation in front of the class.

**Pre-requisite:** Chemistry 111/112 or Biology 111/112

**ENVIRONMENTAL SCIENCE 123**  
**Course #1025243**

This course is offered to students who do not intend to pursue science beyond high school as a means of satisfying their compulsory science requirement. This is a practical course that studies the interactions between people and the physical environment. Through hands on activities, students will examine aspects of our environment and the impacts of the human populations on the environment. Topics covered include the ecosystems, renewable resources, energy, the human population and pollution.

**AP Physics B 120**  
**Course #4026240**

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. It is highly recommended that students intending to write either AP Physics or AP Chemistry exams take this course.

**Pre-requisites:** Physics 111/112, Chemistry 111/112, Physics 121/122

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

**Text:** *Nelson Chemistry (Atlantic Edition) & Physics McGraw-Hill Ryerson*

**GENERAL SCIENCE 120**  
**Course #3028640**

This course is offered to students who do not intend to pursue science beyond high school. It satisfies the compulsory science requirement. Topics covered are reproduction, drugs, alcohol, tobacco and basic astronomy (the solar system and the stars).

**Text:** *General Science, Moyer and Bishop (1986)*

**PHYSICS 111**  
**Course #1025431**

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.

**Text:** *Physics McGraw-Hill Ryerson*

**PHYSICS 112**  
**Course #1025432**

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.

**Text:** *Physics, McGraw-Hill Ryerson*

**PHYSICS 121**  
**Course #1025441**

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. The students taking this course may elect to write the AP Physics exam.

**Pre-requisite:** Physics 112

**Text:** *Physics McGraw-Hill Ryerson*

**PHYSICS 122**  
**Course #1025442**

Students planning to take science or engineering 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.

**Pre-requisite:** Physics 112

**Text:** *Physics McGraw-Hill Ryerson*

**PHYSICAL GEOGRAPHY 110**  
**Course #1010330**

This course provides a general introduction to physical geography and includes such topics as: The Earth in Space, Measuring the Earth's Size and Shape, the Biosphere, Earthquakes and Volcanoes, World Population pattern, protection of the earth's environment and several units in meteorology. The course is particularly recommended to students planning to pursue university or college programs in forestry, geology, civil engineering, urban or rural planning or any field related to the mining industry. **Text:** *Inch & Stone, The Physical Environment, 2nd edition*

## Second Languages

### FRENCH LANGUAGE (CORE)

#### General Aims

The French program will provide students with learning opportunities that will enable them, within the limits of their command of structures and vocabulary:

- a) to listen to and understand ideas and concepts expressed in French;
- b) to express orally their experiences, thoughts and feelings with clarity and confidence;
- c) to read for pleasure, interest, information and vocabulary enrichment with the level of comprehension appropriate to their grade and level;
- d) to write with ease and acceptable degree of correctness;  
to become familiar with customs, geography, history, institutions, traditions, and arts of French Canada and the other French-speaking regions of the world.

To Canadians, the most important fact about French is that it is a language of Canada not a "foreign" language. As one of Canada's official languages, it is a language that is becoming increasingly more important to learn.

#### **STUDENTS WHO HAVE TAKEN FRENCH IMMERSION OR FRENCH FIRST LANGUAGE COURSES ARE NOT ELIGIBLE FOR CORE FRENCH COURSES.**

**NOTE: Core French 9, 10, 11 & 12**

#### **Exam**

The **oral presentation** and **comprehension exam** are **required** components of the Core French program.

**Failure** or **refusal** to complete these components will result in a **failing grade**.

#### **FRENCH 111 (Not for Immersion Students)**

Students choosing this course must have maintained a high standard of French in Grade 10 (Different Units than French 112) The textbook used is *En direct 2*.

#### **FRENCH 112 (Not for Immersion Students) Course #1005032**

This course is sequential to Grade 10 French. The textbook use is *EnDirect 2*.

#### **FRENCH 121 (Not for Immersion students)**

This course is sequential to French 111. Students choosing this course must have maintained an acceptable standard of French 111. Selected reading and supplementary grammar text will be used

#### **FRENCH 122 (Not available to students who have been in Immersion)**

##### **Course #1005042**

This course is open to those students who have successfully completed French 111 or French 112. The textbook used is *En Direct 3*.

#### **FRENCH LANGUAGE (Immersion)**

It is said that becoming bilingual is a move towards preserving Canadian unity, and that it 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)
- 5) a knowledge of some cultural aspect of French Canada and sensitivity to Francophone people.

Furthermore, students must be motivated and have a positive attitude toward the learning of French.

As listening and speaking have been the skills most emphasized in elementary and junior high school, students' most striking ability is in oral French. Our task at the secondary level is clearly to continue this and to expand their reading and writing skills and to push students' total ability forward to full bilingualism. This can only be achieved if students are motivated and diligent. It is hoped that students will take advantage of the opportunity of becoming bilingual.

#### **STUDENTS WHO HAVE TAKEN FRENCH FIRST LANGUAGE COURSES ARE NOT ELIGIBLE FOR FI LANGUAGE ARTS COURSES.**

#### **FI LANGUAGE ARTS 111 (Local option) Course #9995201**

Students taking this course must have maintained a high level in FILA 10. This course is designed to develop French linguistic skills considering reading, writing, listening and speaking.

**Second  
Languages  
Continued**

**FI LANGUAGE ARTS 110**

**Course #1507530**

Student 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 4 aspects of the language (reading, writing, listening, speaking). There will be a complete study of two plays. Students are required to prepare a minimum of two oral presentations.

**FI LANGUAGE ARTS 121 (Local option)**

**Course #**

This course is for students who maintained a high level in 111. This course is designed to maintain and further develop the four linguistic components (reading, writing, listening and speaking) A complete study of a novel as well as writing of essays will be required.

**FI LANGUAGE ARTS 120**

**Course #1507540**

**It is recommended FI students take this course as it offers preparation for Oral Proficiency testing. Students taking this course will have successfully completed FI Language Arts 110 or 111.**

This course is designed to maintain and further develop the four linguistic components (reading, writing, listening, and speaking). Oral participation is essential and a minimum of 4 oral presentations will be required. A complete study of the novel as well as the writing of essays will be part of this course.

**N.B. An oral proficiency assessment will be administered to all French Second Language students completing grade 12. Therefore, both Grade 12 Core & Immersion students will receive a certificate of oral proficiency at the end of the semester.**

**FI TECHNIQUES DE COMMUNICATIONS 110  
(Local option)**

**FI TECHNIQUES DE COMMUNICATIONS 120  
(NOT for Immersion students)**

**Course #3509940**

This course is designed for students enrolled in Grade 12 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.

**MANDARIN 120**

**Course #3007240**

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.

**SPANISH 110**

**Course #1005130**

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.

**Pre-requisite:** Grade 10 French (Core French or F.I.)

**SPANISH 120**

**Course #1205140**

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.

**Pre-requisite:** Spanish 110

## Social Studies

The Social Studies Department of Fredericton High School offers courses in Canadian History, Modern History, Canadian Geography, Physical Geography, Economics, Political Science, Sociology, World History, World Issues, and Native Studies.

The goal of Social Studies is to help students understand the events, ideologies, and actions which have shaped our society. Students should develop a sense of continuity between the past, present and future.

Physical Geography 110 may be used as a Science credit.

Students who prefer Social Studies in the French Language may choose FI Modern History, FI World Geography and FI Physical Geography.

It is suggested that all students include at least three Social Studies courses in their course selection especially if they intend to follow an Arts program at university. Social Studies courses help students develop skills in making judgments, solving problems, and recognizing bias, writing essays, researching and evaluating data. It is through study of the Social Studies that students come to recognize the values and heritage of their society.

### **CANADIAN GEOGRAPHY 120**

#### **Course #1010440**

This course has been designed to encourage students to become actively involved in learning more about their country. It examines Canada's position in the world and attempts to provide the student with some understanding of our present circumstances. The geology of Canada's regions and how it relates to resource development will be examined. It attempts to identify the issues and decisions, which lie ahead for Canadians, and attempts to establish a personal framework for dealing with these issues. A wide variety of audio-visual materials are used to broaden the scope of the work.

**Text:** Swatridge, Wright. *Canada - Exploring New Directions*

### **CANADIAN HISTORY 122**

#### **Course # 1010542**

#### **Canada, A Question of Survival**

This is an optional Canadian History course for the grade 12 student interested in history and in learning about the makeup and problems of Canada. An emphasis is placed upon the economic, social and political development of Canada from the fall of New France to the present time as well as our relationship with Britain and the United States. If you wish to understand Canada as a nation, you should consider this course. Enrollment is limited to Grade 12 students, we strongly recommend a mark of 70% in Modern History 111-112 or FI Modern History 111-112.

**Text:** Bennett et al. *Canada, a North American Nation*

### **ECONOMICS 120**

#### **Course #1010640**

This course is an introductory economics course aimed at not only familiarizing students with economic principles, but also provide them with an appreciation of the major economic issues in our society such as unemployment and inflation, provincial and federal budgets, as well as with programs, strategies, and regulations created to deal with these issues. Some of the units to be explored include introductory concepts, demand and supply theory, the stock market, the role of government in a market economy, economic indicators, money and the Canadian banking system and stabilization policy. This course is only for grade 12 students.

**Text:** Hird, H. Richard, *Working with Economics; A Canadian Framework, 5<sup>th</sup> Edition*

### **FI WORLD GEOGRAPHY 120**

#### **(Offered every other year 2007-2008)**

This course is designed for students in Grade 12. While learning new geography concepts, the students will improve their oral and written skills in French. The students will have a better understanding of the Great Powers and the existing differences between these countries and the World. A wide variety of audio-visual materials are used to broaden the scope of the work. Speaking French in class and taking part in class discussion are an important part of this course.

**Text:** Organization géographique du monde contemporain, Carrier, Francois et Hudson, Marc

**Social  
Studies  
Continued**

**MODERN HISTORY 111**

**Course #1010231**

This is an enriched course for students wishing an in depth approach to history. Beginning with the French Revolution and ending with the Cold War, history will be investigated. Extensive use is made of the seminar method (oral presentations). 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 present a challenge. A mark of at least 80 per cent in Social Studies 10 is strongly recommended.

**Text:** Garfield Newman, *Legacy: The West and the World*

**MODERN HISTORY 112 or  
FI MODERN HISTORY 112**

**Course #1010232/#1510232**

This course is designed for students who plan to go on to university or technical school. It is a thematic study of European history dealing with such themes as revolution, nationalism, and war. The intent of the course is to enable the student to examine and to become aware of the historical forces on modern western civilization. Students are expected to show a reasonable interest in research and analysis and demonstrate competence in oral and written expression. **Students with marks under 70 per cent in year Social Studies 10 are advised to enroll in Modern History 113.**

**Texts:** Christopher Wittet, *Modern Western Civilization*

Trueman et al. *Les grand courants de l'histoire moderne*

**MODERN HISTORY 113**

**Course #1010233**

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 our modern world. Topics include industrialization, World War I and II, life in the 1920's and 1930's, the Cold War, China and Emerging Nations and their problems. This is a compulsory course for all students who do not elect either Modern History 111 or 112 or FI Modern History 111 or 112.

**Text:** Heater, *Our World This Century*

**NATIVE STUDIES 120**

**Course #1014040**

This course is designed to promote understanding of the Micmac and Maliseet cultures in the Maritime provinces - past, present and future- and to see how the Indian and non-

Indian views have influenced the course of events in the Maritimes. Some of the units to be considered are language and culture, religion and spirituality, ancient times, arts and crafts, community and colonial relations. This elective course is open to all grade 11 and grade 12 students who are interested in developing an understanding of Indian culture and their perspectives on various native issues.

**Text:** Leavitt, Robert. *Maliseet and Micmac First Nations of the Maritimes*

**PHYSICAL GEOGRAPHY 110**

**Course #1010330**

The course provides a general introduction to physical geography and includes such topics as: The Earth in Space, Measuring the Earth's Size and Shape, The Biosphere, Earthquakes and Volcanoes, World Population patterns, protection of the earth's environment and several units in meteorology. The course is particularly recommended to students planning to pursue university or college programs in forestry, geology, civil engineering, urban or rural planning or any field related to the mining industry.

**Text:** Inch & Stone. *The Physical Environment, 2nd edition*

**POLITICAL SCIENCE 120**

**Course #1010840**

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. Extensive 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 American government and politics, characteristics of political systems and current political happenings. Enrollment is limited to Grade 12 students. We strongly recommend that a student has a mark of 70% in Modern History 111-112 or FI Modern History 111-112.

**Text:** Baldwin et al. *Ideologies*  
Rickerd Saywell, *How We Are Governed in the 90's*

**Social  
Studies  
Continued**

**SOCIOLOGY 120  
Course #3013840**

This course will introduce students to the basic theoretical development and scientific foundation of this discipline. Students will develop the ability to examine social phenomena objectively and increase their understanding of the components and dynamics of social groups as they affect culture. Many interesting topics such as culture, socialization, deviance and social control, religion and social movements will be covered. Each student will be required to prepare and deliver a seminar to the class. Enrollment is limited to grade 12 students. We strongly recommend that a student has a mark of 70% or more in Modern History 111-112 or FI Modern History 111-112.

**Text:** Shepard/Greene. *Sociology and You* 2008

**WORLD HISTORY 120AP  
Course #4011940**

This is an enriched history course, designed for students who are interested in further studies in history and the social sciences. Discussion and research study along with development of analytical and critical thinking skills will be emphasized. Individual and group seminars will be a part of the learning experience. Enrollment is limited to grade 12 students who have achieved a mark of 80% or higher in Modern History 111-112 or FI Modern History 111-112.

**Text:** Peter Stearnset al. *World Civilizations: The Global Experience*

**WORLD ISSUES 120  
Course #1010940**

This course is a study of global issues. It focuses on current world problems with emphasis on current events, their historical background, present situation, attempted solutions, and ongoing problems. Students will be discussing the issues as well as presenting a seminar to the class.

**Text:** Clark and Wallace. *Global Connections* 2009

## COURSES

Accounting 120  
Advanced Computer Aided Drafting 120  
Advanced Keyboarding 110  
Advanced Math & Calculus 120  
Advanced Metals Processing 120  
Automotive Electrical Sys. 120  
Biology 111  
Biology 112  
Biology 113  
Biology 121/ AP  
Biology 122  
Business Communications 110  
Business Organization & Management 120  
Canadian Geography 120  
Canadian History 122  
Canadian Literature 120  
Care & Maintenance of Vehicles 110  
Career Exploration 110  
Chemistry 111  
Chemistry 112  
Chemistry 121/AP  
Chemistry 122  
Child Studies 120  
Co-op Education 120  
Computer Aided Drafting 110  
Computer Science 110  
Computer Science 120  
Culinary Technology 110 / 120  
Differential and Integral Calculus 120  
Drafting Computer Aided Graphics 120  
Early Childhood Services 120  
Economics 120  
Electrical Wiring 110  
English 111  
  
English 112  
English 113  
English 121/AP  
English 121  
English 122  
English 123  
Entrepreneurship 110  
Environmental Science 122  
Environmental Science 123  
Family Living 120  
Fashion Technology 110  
Fashion Design 120  
FI Language Arts 111  
FI Language Arts 110  
FI Language Arts 121  
FI Language Arts 120  
FI Law 120  
FI Mathematics 111, Course 1  
FI Mathematics 111, Course 2  
FI Mathematics 112, Course 1  
FI Mathematics 112, Course 2  
  
FI Modern History 112  
FI Techni de Communications 120  
FI World Geography 120 (2009-10)  
Framing and Sheathing 110  
French 111 (Not available to Immersion)  
French 112 (Not available to Immersion)  
French 121 (Not available to Immersion)  
French 122 (Not available to Immersion)  
General Science 120  
Graphic Art & Design 110  
Graphic Art & Design 120  
Health and Physical Education 120  
Hospitality and Tourism 110  
Housing and Design 120  
Independent Living 110  
Information Technology 110/ 120  
Internal Combustion Engines 110  
Introduction to Accounting 120  
Introductory Electronics 110  
Journalism 120  
Law 120  
Mandarin 120  
Marketing 120  
Mathematics 111 Geometry  
Mathematics 111 Functions  
Mathematics 112 Geometry  
Mathematics 112 Functions  
Mathematics 113 Applications  
Mathematics 113 Patterns  
Mathematics 121  
Media Studies 120  
Metals Fabrication (Welding) 110  
Metals Processing 110  
Microelectronics 120  
Mill and Cabinet Work 120  
Modern History 111  
Modern History 112  
Modern History 113  
Music 111/112A (General)  
Music 111/112B (Instrumental)  
Music 122  
Music 120  
Native Studies 120  
Nutrition for Healthy Living 120  
Outdoor Pursuits 110  
Parenting 110  
PCMT Co-op 120  
Physical Geography 110  
Physics 111  
Physics 112  
Physics 121/AP  
Physics 122  
Political Science 120  
Power Train & Chassis 110  
Psychology 110  
Psychology 120AP  
Reading Tutor 120  
  
Residential Finish 120  
Robotics & Automated Tech. 120  
Science 122  
Sociology 120  
Spanish 110  
Spanish 120  
Tech Support 110  
Theatre Arts 120  
Trig & 3 Space 122  
Tune-up and Em Sys 120  
Visual Arts 110  
Visual Arts 120  
World History 120AP  
World Issues 120  
Writing 110

**When selecting courses students should first consult the list of perquisites.**

**It is strongly recommended that students selecting level 1 (enriched) courses have obtained a 85% in the prerequisite course.**

**As a general rule, courses beyond the grade level in which one is enrolled, may not be taken. Several exceptions for grade 11 students are identified on page 8.**

### **COURSES WITH PREREQUISITES**

<b>F.H.S. Department</b>	<b>Prerequisite</b>	<b>Co-requisite</b>
<b>Advanced Technology</b>		
Automotive Electrical 120	Internal Combustion Engines 110	
Intro to Electronics 110	Math 10	
Microelectronics 120	Introductory Electronics 110	
Tune-up and Emissions 120	Internal Combustion110 and Auto Electrical 120	
<b>Business</b>		
Business Organization & Management 120	Geometry 112/111	
Computer Science 120	Computer Science 110	
PCMT Co-op 120	Computer experience	
<b>English</b>		
English 111/112	English 10	
English 113	English 10	
English 121/122	English 112/111	
English 123	English 113	
Canadian Literature 120	English 112	
Journalism 120	English 112	
<b>Family Studies</b>		
Fashion Design 120	Fashion Technology 110	
Psychology 120AP	Strong academics	
<b>Fine Arts</b>		
Visual Arts 120	Visual Arts 110	
Graphic Art & Design 120	Graphic Art & Design 110	
<b>Mathematics</b>		
Applications in Math 113	Math 10	
Patterns and Relations 113	Math 10	
Geometry 111/112 (Course 1)	Math 10	
Functions 111/112 (Course 2)	Math 10	
Advanced Math & Calculus 120	Geometry 112 & Functions 112	
Differential and Integral Calculus 120	Advanced Math 120	Trig.and 3-Sp 122
Trig & 3 Space 122	Geometry 112 & Functions 112	
Mathematics 121	Geometry 112 & Functions 112	
<b>F.H.S. Department</b>	<b>Prerequisite</b>	<b>Co-requisite</b>

**Science**

Biology 111/112

Biology 113

Biology 121/ AP

Biology 122

Chemistry 111/112

Chemistry 121/122

Environmental Science 122

Environmental Science 123

General Science 120

Physics 111/112

Physics 121/AP

Physics 122

Science 10

Science 10

Biology 111/112

Science 10

Science 10

Chemistry 111/122

Chemistry 112/111

Science 10

Science 10

Science 10

Physics 111/112

Physics 111/112

Biology 112/111

**Second Languages**

French 111/112 (Not for Immersion)

French 121/122 (Not for Immersion)

FI Language Arts 111/110

FI Language Arts 121/120

FI Tech. de Communications 120

Spanish 110

Spanish 120

French 10

French 11

FI Language 10

FI Language 110

French 10

Grade 10 French

Spanish 110

**Social Studies**

Canadian History 122

Modern History 111/112

Modern History 113

Political Science 120

Sociology 120

World History 120 AP

Modern History 112/111

Social Studies 10

Social Studies 10

Modern History 111/112

Modern History 111/112

Modern History 111/112

## EDITOR'S NOTE

1. The booklet was prepared with information provided by the various Department Heads at FHS.
2. Fredericton High School, with available resources, makes every effort to inform students of the specific graduation requirements as defined by the N. B. Department of Education. The school also makes information available in the Guidance Centre to enable students to plan post secondary entrance requirements while achieving high school graduation at the same time. The ultimate responsibility for becoming familiar and knowledgeable with these requirements rests with the individual student. Homeroom Advisors, Administrators, Counsellors and Teachers are always available to help students when requested.
3. Approximate cost of this handbook is \$3.00 per copy. Please retain for reference.

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