

SUGARLOAF SENIOR HIGH SCHOOL GUIDANCE DEPARTMENT

2014- 2015

COURSE SELECTION PROCESS

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GENERAL INFORMATION

Course Selection:

During March/ April of each year, the Guidance Counsellor meets with all Grades 10 and 11 students by grade in classroom groups. Students will be made aware of General Requirements for High School Graduation and Admission to University and College for various programs. Handouts of information regarding Compulsory courses, Graduation Requirements, and Course Selection forms are distributed and explained, and students are asked to take this information home.

It is the **individual student's** responsibility to research his/her area of interest or specific Post-Secondary Institution to determine courses required for admission. If students need assistance, the Guidance Counsellor is prepared to help.

Students, with the help of Parents, are encouraged to make careful and wise choices when looking at the Pre- Registration information (Course Selection Package). The Administration and Guidance Counsellor use this information to build the Master Timetable for the upcoming year.

Remember that the number of classes in each subject depends upon the number of students selecting that course. Therefore, it is crucial that each student choose the courses they really want because the school does not decide the number or types of classes – STUDENTS DO!

The school does not have unlimited resources to make extensive changes after the Master Timetable has been prepared, so please consider your options carefully, getting as much help and information as you need before you choose your courses.

The Administration and Guidance Counsellor use the information obtained from the Pre- Registration to build the Master Timetable for the upcoming year. After the Master Timetable is finalized, with the courses available shown by periods within each semester, the Guidance Counsellor will post an appointment schedule for Grade 11 students and will meet with each student individually to schedule them for the upcoming year in their Compulsory Courses and as many preferred Elective Courses as possible. The Individual Course Selection forms submitted (from this package) will be used to complete the schedule. Parents may call the school to participate in the Course Selection Process.

The Parents/Guardians of **Grade 10 students** will be asked to make an appointment to meet with Administration Personnel or the Guidance Counsellor for final selection of courses for the upcoming year. In consultation with the Parent and Student, using the Individual Course Selection forms submitted (from this package), a Timetable will be prepared that enables them to get their Compulsory Courses and as many preferred Elective Courses as possible.

~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**. A student needing an additional Semester may take the Minimum Number of courses to complete Graduation Requirements.

~Course Changes: When you register for a course, the school considers this a commitment by you to honor this choice with regular attendance and completion of the course.

There are **Three** occasions when Course Selection changes may be made:

1. Late April or early May – Students will be given a Timetable to **confirm** the Courses they are registered for. Check carefully for errors and/or omissions and **advise** the Guidance Counsellor **immediately** so that the changes can be made.

2. End of June – Grade Level Meetings are held for each Grade Level after all exams and/or tests have been completed and marks have been finalized. After the Grade Level meetings are finished, the Guidance Counsellor will make changes to the student schedules if a Compulsory Course is failed.
3. 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.

~Request for changes after a semester has commenced will not be accommodated.

~Study Period: Sugarloaf Senior High School staff has implemented a daily “**Study Period,**” between the 2 afternoon classes. The intent of the “Study Period” is to allow students to get extra help in courses that they are struggling in and to get homework completed when and if necessary. “Study Period” is considered another period in the day; therefore like all other classes, **Attendance is mandatory and monitored** like any other period during the day

~On-Line Courses: The Department of Education offers a wide variety of courses to students via the internet. Students at Sugarloaf Senior High have access to these courses; however because the online courses are completed by students independently, without a classroom teacher, they are only available to students on an “**as need basis.**” For more information, please check with the Guidance Counsellor.

~Transfers and External Credits: Any credit not issued by a New Brunswick High School must be reviewed and evaluated by the Administration and Guidance Counsellor at SSHS. This includes courses such as Correspondence Courses, Out of Province Courses, etc. Credit will be given if the work accomplished meets the New Brunswick Curriculum. Also, prior permission must be obtained to enroll in External Credits if they are to be used for Graduation purposes.

~Retaking a Course to Improve Mark: Grade 12 students may be permitted to retake a course to upgrade the mark. However, the school determines the spaces available at the beginning of each semester. Certain conditions apply. Two credits cannot be given for the same course; therefore a student should only retake a course to improve that mark.

~Double Credit: Two credits CANNOT be given for the same subject taken at the same grade level, E.g. English 112 and English 113. Also, French Immersion Students must be sure that they register for the Compulsory French Immersion Courses to meet the Requirements for the French Immersion Certificate. Most of the courses needed to complete the French Immersion Certificate are also offered in English but cannot be taken if they are being used toward the French Immersion Certificate as the Curriculum is the same and credit cannot be given twice. E.g. FI World Issues 120 and World Issues 120

~Examinations: Students not appearing for an examination must have a **medical/doctor’s certificate**. The school will then re-schedule the examination or assign a mark based on the total Semester’s work. A medical/doctor’s excuse does not exempt a student from any portion of the Semester’s work.

~Post Grads: Students wishing to return after Graduation to improve their marks may do so only if there is space available and at the discretion of the School Administration. Application must be made through the Guidance Counsellor.

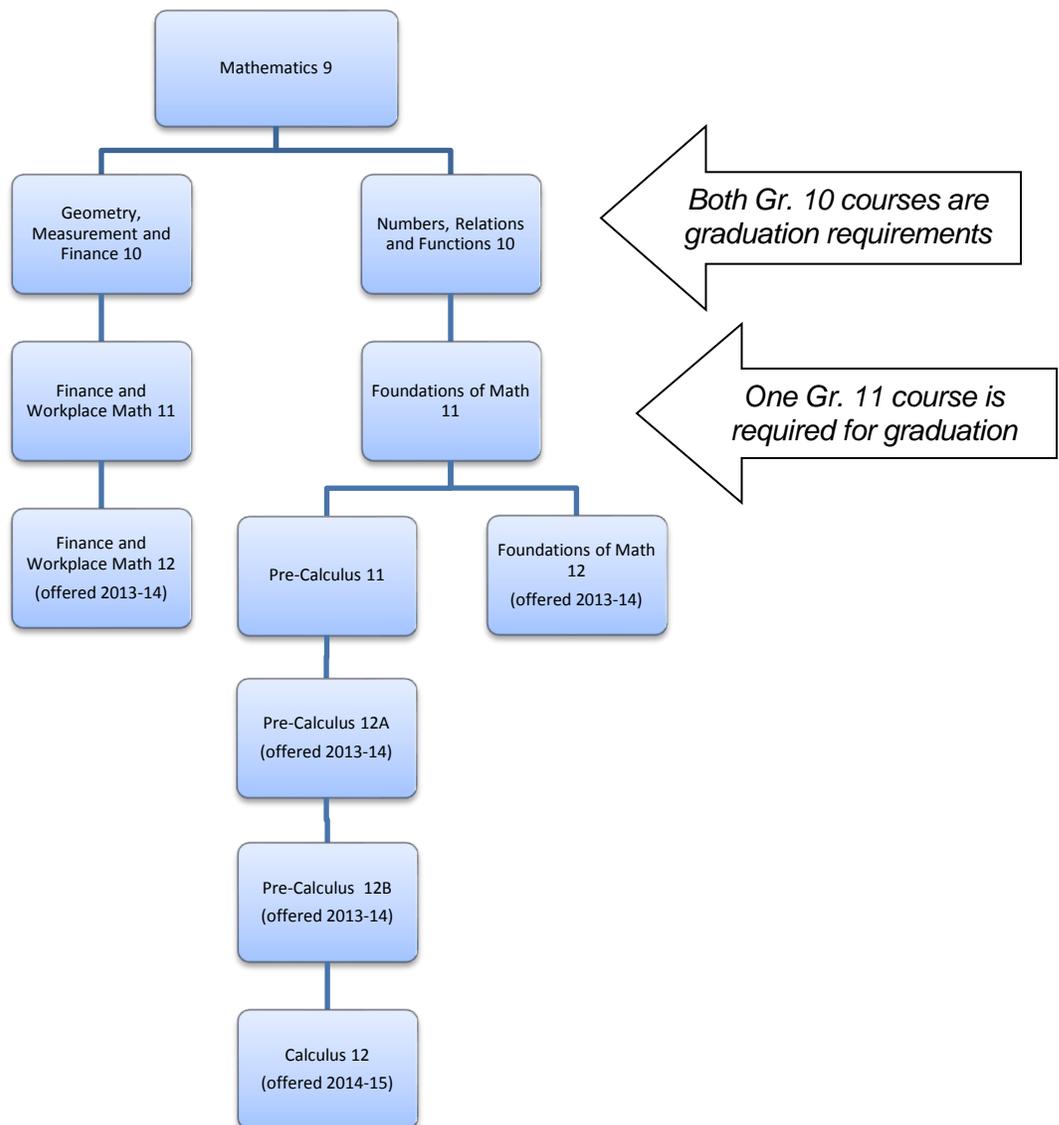
~Course Sequence: Many courses are taken in sequence. E.g. Physics 112 must be completed before Physics 122. **Changes to the Mathematics Curriculum in New Brunswick since 2011**

After students have completed the two required grade 10 mathematics courses, they have to decide on which pathway they will be following in math as the mathematics curriculum is divided and organized into three pathways.

Mathematical Pathways

The goals of all three pathways are to provide prerequisite attitudes, knowledge, skills and understandings for specific post-secondary programs or for direct entry into the work force.

All three pathways provide students with mathematical understandings and critical-thinking skills. When choosing a pathway, students should consider their current interests and future plans.



The Pathways Explained

Financial and Workplace Mathematics:

This pathway is designed to provide students with the mathematical understandings and critical-thinking skills identified for entry into the majority of the trades and for direct entry into the work force.

Foundations of Mathematics:

This pathway is designed to provide students with the mathematical understandings and critical thinking skills identified for post-secondary studies in programs that do not require the study of theoretical calculus.

Pre-Calculus:

This pathway is designed to provide students with the mathematical understandings and critical-thinking skills identified for entry into post-secondary programs that require the study of theoretical calculus.

Which Courses Should I Take?

Students and parents are encouraged to research the administration requirements for post-secondary programs of study as they vary by institution and by year.

For specific program requirements, you should contact the specific institution you are interested.

The following is a sample of courses for possible future plans:

<i>Sample Future Plans</i>	<i>Most Relevant Course Work</i>
Technical college Trade School Direct Entry to Workforce	Financial and Workplace 110-120
Social Studies Humanities Fine Arts Undecided <i>(Students interested in the possibility of studying in post secondary courses that do not involve Mathematics)</i>	Foundations of Math 110, followed by Foundations 120
Math Science Computer Science Engineering Medicine Commerce	Foundations of Math 110 and Pre-Calculus 110 followed by Calculus 120 A , Calculus 120B and Calculus

~**Foundations of Math 110 is a Pre-requisite for both Pre-Calculus 110 and Foundations of math 120.**

~**Students enrolling in most grades 11 and 12 Science courses must have completed both grade 10 math courses.**

~**Which Math Courses are Pre-requisites and/ or Co-requisites for Grade 11- 12 Science Courses?**

~Foundations of Math110 is a **Pre-requisite** or **Co-requisite** for Chemistry 112, Physics 112 and Biology 122.

~Foundations of Math110 is a Pre-requisite for Chemistry 122 and Physics 122.

Graduation Requirements in New Brunswick

*****NOTE:** The **Requirements** listed below are the **Minimum Requirements** for a High School Diploma. Meeting the **Minimum Requirements** does not guarantee Admission to a Post- Secondary School. Each school has Specific Requirements for Admission so make sure to **reference** the Individual School Calendar for Specific Admission Requirements.

NEW BRUNSWICK GRADUATION REQUIREMENTS

Compulsory Courses:

- ~ English 112 or English 113
- ~ English 122 or English 123
- ~ Financial & Workplace Math 110 or Foundations of Math 110
- ~ Science- **(Choose 1)**
 - ~Automotive Electrical Systems 120
 - ~Biology 112 or Biology 113
 - ~Biology 122
 - ~Chemistry 112
 - ~Chemistry 122
 - ~Intro Environmental Science 120
 - ~Introduction to Electronics 110
 - ~Physics 112
 - ~Physics 122
- ~ Modern History 112 **or** Modern History 113 **or** FI Modern History 112
- ~ Fine Art/Life Role Development- **(Choose 1)**
 - ~Cooperative Education 120
 - ~Entrepreneurship 110
 - ~Family Living 120
 - ~PE Leadership 120(Restricted to Potential Graduates)
 - ~Life Skills 110
 - ~Music 112 or Music 113
 - ~Outdoor Pursuits 110
(Intended for Grade 11 students)
 - ~Visual Art 110
 - ~Visual Art 120

- A **minimum of 5 Courses** at the **Grade 12** level.
- Students **must pass** the **Grade 9** English Language Proficiency Assessment (**ELPA**).
- **SCIENCE** and **FINE ARTS/LIFE ROLE DEVELOPMENT** can be **taken** in **Grade 11 or 12**. (Only required to have 1 of each)
- A total of **17 credits** are **required** for Graduation. This **includes** the **7 compulsory** courses and **10 elective** courses.
- **French Immersion (FI)** Students are **required** to complete **all** French Immersion Courses to receive the French Immersion Certificate. The 5 Compulsory Courses are:

Grade 11- 1. FI Language Arts 110 2. FI World Issues 120 3. FI Modern History 112

Grade 12- 1. FI Language Arts 120 2. FI Canadian History 120

- The French Immersion Courses are **counted as Electives** toward Graduation, **but Compulsory** for the **French Immersion Certificate**.

~Certificate of Immersion – The French Immersion Certificate is issued by School District 15 and is offered to all students who have successfully completed all courses in the Immersion Program in Grades 9 and 10 and successfully completed all four courses in Grades 11 and 12.

~Certificate of Proficiency – The Certificate of Oral Proficiency is issued to all students enrolled in the French Immersion Program as well the students enrolled in the Grade 12 French Second Language Program (Core Program). This Certificate indicates the student's Level of Proficiency and is awarded by the Department of Education. This Oral Proficiency Evaluation is administered by Professional Evaluators from the District Office. Students will be presented with this Certificate at the Graduation Ceremony.

~Advice to Students on Choosing Courses

1. Make sure all your courses for the next year are finalized before you leave in June; however changes to your schedule may be made by the Guidance Counsellor after the Grade Level Meetings if a student has not been successful in a Compulsory Course.
2. Academic Achievement has proven to be the best predictor of future Academic Success.
3. Read all the Graduation Requirements.
4. Before choosing a course, read the Course Description. Courses are listed alphabetically.
5. Course Selection must be taken seriously. Choosing courses haphazardly will only result in disappointment and frustration later.
6. The opportunity for course adjustments prior to a Semester is generous. Once a Semester has started, changes are very difficult to make.
7. When returning to school in September, review your timetable carefully. Compulsory Courses will be rescheduled by the Guidance Counsellor if you were unsuccessful after the final marks have been submitted in June. You may have to choose other Elective Courses to accommodate the Compulsory Courses that have to be retaken. If your timetable indicates that you have a "Free" period, see the Guidance Counsellor immediately to select another course.

Every student MUST have five Courses and one study period each semester! If you do not, be sure to see the Guidance Counsellor immediately!!

- **NOTE:** PLEASE KEEP IN MIND THE ADMISSION REQUIREMENTS FOR COLLEGE AND UNIVERSITY WHEN CHOOSING COURSES AND, IF NECESSARY, SEE THE GUIDANCE COUNSELLOR. THE FOLLOWING COURSES OFFERED AT SUGARLOAF SENIOR HIGH SCHOOL ARE COURSES RECOGNIZED BY MOST MARITIME UNIVERSITIES FOR ADMISSION: -Biology 122, Chemistry 122, Economics 120, FI Language Arts 120, FI Canadian History 120, Canadian History 120, FI World Issues 120, World Issues 120, French 122, Foundations of Math 120, Intro Env Sc 120, Physics 122, -Political Science 120 and -Pre-Calculus 110.

~ It is **crucial** that students **verify** the **Academic Calendar** from **each** University or College of interest as the requirements **may be different** for each school. English 122 is required for most Post- Secondary University Programs. Most College Programs require English 122 or English 123.

~Grade 11

Students are required to choose **nine courses** on the course selection sheet. The nine courses chosen will **total ten credits** as all students **must** take English 112 or English 113, a **full year** course which therefore counts as **two credits**, for a total of ten. Of the nine courses, the Compulsory Courses that each student should choose are:

1. English 112 **or** English 113
2. Modern History 112 **or** Modern History 113 or FI Modern History 112
3. Financial & Workplace Math 110 **or** Foundations of Math 110

***** French Immersion Students must choose FI Language Arts 110 and FI World Issues 120 and FI Modern History 112.**

~Grade 12

Students are required to choose **ten courses** on the course selection sheet. One of these courses **must be** English 122 or English 123.

***** French Immersion Students must choose FI Language Arts 120 and FI Canadian History 120.**

COURSES SUGARLOAF SENIOR HIGH SCHOOL HAS TO OFFER:

➤ **Compulsory Courses for Grade 11 and Grade 12 (YOU MUST TAKE THESE COURSES)**

1. Financial & Workplace Math 110 or Foundations of Math 110
 2. English 112 or English 113
 3. English 122 or English 123
 4. Modern History 112 or Modern History 113 or FI Modern History 112
 5. Science (minimum of 1)
 6. Fine Art/Life Role (minimum of 1)
- TOTALS: 7 CREDITS

➤ **Compulsory Courses for French Immersion (YOU MUST TAKE THESE COURSES)**

1. French Immersion Canadian History 120
2. French Immersion Language Arts 110
3. French Immersion Modern History 112
4. French Immersion Language Arts 120
5. French Immersion World Issues 120

➤ **Elective Courses**

- Automotive Electrical Systems 120 (Science)
- Biology 112 or Biology 113 (Science)
- Business Communications 110
- Business Organization & Management 120
- Calculus 120
- Canadian History 120
- Chemistry 112 (Science)
- Chemistry 122 (Science)
- Child Studies 120
- Computer Aided Design 110
- Co-op Education 120 (Fine Art/Life Role)
- Culinary Tech 110
- Digital Productions 120
- Economics 120 (Offered Every Second Year, Alternating with Political Science 120)
- Entrepreneurship 110 (Fine Art/Life Role)
- Introduction to Environmental Science 120 (Science)
- Financial & Workplace Math 120

- Framing and Sheathing 110 (Must be taken at the same time as Residential Finish 120)
- French 112 or 122
- Foundations of Math 120
- PE Leadership 120 (Fine Art/Life Role) – (Restricted to Grade 12 students only)
- Hospitality and Tourism 110
- Individual and Family Dynamics 120 (Fine Art/Life Role)
- Internal Combustion Engines 110
- Introduction to Accounting 120
- Introduction to Electronics 110 (Science)
- Law 120
- Life Skills 110 (Fine Art/Life Role)
- Media Studies 120
- Metals Fabrication (Welding) 110
- Metals Processing 110
- Mi'gmaq Language 110
- Music 112 or 113 (Fine Art/Life Role)
- Native Studies 120
- Nutrition for Healthy Living 120
- Outdoor Pursuits 110 (Fine Art/Life Role)- (Offered Every Second Year, Alternating with Wellness Phys 110)
- Physics 112 (Science)
- Physics 122 (Science)
- Political Science 120 (Offered Every Second Year, Alternating with Economics 120)
- Power Train & Chassis 110
- Pre- Calculus 110
- Pre-Calculus 120A
- Pre-Calculus 120B
- Residential Finish 120 (Must be taken at the same time as Framing and Sheathing 110)
- Tech Support 110
- Theatre Arts 120 (Fine Art/Life Role)
- Tune-up and Emissions 120
- Visual Arts 110 (Fine Art/Life Role)
- Visual Arts 120 (Fine Art/Life Role)
- Wellness through Physical Education 110 (Offered Every Second Year, Alternating with Outdoor Pur. 110)
- World Issues 120

✓ **READ COURSE DESCRIPTIONS BEFORE CHOOSING YOUR COURSES! SOME COURSES HAVE TO BE TAKEN AT THE SAME TIME AS OTHERS AND MANY COURSES HAVE PRE-REQUISITES...**

COURSE PLANNING GUIDE

GRADE 11

- 1.&2. English 112 or English 113 (a year-long course – two credits)
3. Financial & Workplace Math 110 or Foundations of Math 110
4. Modern History 112 or Modern History 113 or FI Modern History 112
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____

➤ French Immersion Students must choose the following Compulsory Immersion courses! **1.** FI Language Arts 110 **2.** FI World Issues 120 **3.** FI Modern History 112

GRADE 12

1. English 122 or English 123
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____

- ✓ French Immersion Students must choose the following Compulsory Immersion courses!
1. FI Language Arts 120 **2.** FI Canadian History 120
- ✓ A total of **17 courses** are needed by the end of Grade 12 to meet the New Brunswick Graduation Requirements. **Five** of the 17 **courses** have to be at the **Grade 12 level**.
- ✓ **One Fine Art** must be taken in Grade 11 or Grade 12 to meet the Graduation Requirements.
- ✓ **One Science** must be taken in Grade 11 or Grade 12 to meet the Graduation Requirements.

NOTE- Listed above are the **minimum** requirements for a New Brunswick High School Diploma. Be sure to check the Admission Requirements for each Post- Secondary Institute you are interested in!

ALL Students in the Province of New Brunswick must pass the Grade 9 English Language Proficiency Exam (ELPA) before graduation can be granted.

COURSE DESCRIPTIONS

~AUTOMOTIVE ELECTRICAL SYSTEMS 120 – This course is recognized as a Science toward Graduation. This course introduces the student to the theory and operation of automotive electrical systems. Students will begin with a study of the basic elements and principles of electricity, which includes the electron theory, magnetism and electrical symbols and will then progress from the study of individual components throughout the vehicle. This course would be of benefit to any student considering entering an occupational area involving the Maintenance of Vehicles or Craft including the Automotive, Aircraft and Marine Industries. Prerequisite: Internal Combustion Engines 110 is a useful introduction to this course but is not mandatory.

~BIOLOGY 112 – This course is the first of two sequential Biology courses. It is designed for students who plan to proceed to University or Community College. This course emphasizes the nature of life. Lecture and demonstration methods are used together with a laboratory program. Topics include: biodiversity, cellular matter and energy flow, energy and matter exchange by humans and other organisms, and energy and matter exchange in ecosystems. This course offers a preparation for Biology 122 and it is recognized as a Science toward Graduation.

~BIOLOGY 113 – This Biology course is intended for students who require a less rigorous program. Special emphasis is placed on human life functions such as nutrition, transport, respiration, excretion, regulation, and reproduction. Other topics include ecology, cell structure and function, and health and disease. Laboratory work involves the use of the microscope and activities of varying complexity. The course offers core and optional topics and is recognized as a Science toward Graduation.

~BIOLOGY 122 – This course is the second of two sequential Biology courses. Students must complete the Biology 112 to register. Human reproduction, genetics, inheritance patterns, DNA replication, protein synthesis, cellular function and population dynamics will be investigated through both lecture and lab sessions. The program is designed for students who plan to proceed to University or Community College after Graduation. Prerequisite: Biology 112

~BUSINESS COMMUNICATIONS 110 – 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 working skills with English as well as those who plan to continue on to Post- Secondary Education.

~BUSINESS ORGANIZATION AND MANAGEMENT 120 - This is an introductory course in Business Organization, Operation and Management designed for those students intending to pursue further study in Business Administration or Economics at a Post- Secondary Institution. The understanding of Business Operations as practised in Canada is a major objective of the course including legal forms of ownership, business ethics, marketing, finance, set up and operation of a small business, and labour/management relations.

~CALCULUS 120- This focuses on the rates of change, derivatives of functions, derivative rules, inverse trig functions, optimization problems, definite integrals, anti -derivatives, application of integrals. **Pre-Calculus A 120 and Pre-Calculus B 120** are both pre-requisites for this course.

~CANADIAN HISTORY 120 - This focuses on the major events that have shaped our nation since Confederation in 1867. Topics include the MacDonal and Laurier eras, World War 1, the Roaring 20's and the Depression years, World War 2, and Canada today. This course is primarily research based and requires the completion of a series of assignments.

~**CHEMISTRY 112** – This is the first of two sequential Chemistry courses. Emphasis is placed on teaching Chemistry using the scientific method. The experiments are designed so that students make observations and draw conclusions which lead directly to important chemical principles. Topics include: matter and energy in chemical change, matter as solutions and gases, quantitative relationships in chemical changes, chemical bonding in matter and some organic chemistry. This course is recognized as a Science toward Graduation.

➤ **Foundations of Math110** is a **Pre-requisite** or **Co-requisite** for **CHEMISTRY 112**

~**CHEMISTRY 122** – This is the second of two sequential courses. Emphasis is placed on teaching Chemistry using the scientific method. The experiments are designed so that students make observations and draw conclusions which lead directly to important chemical principles. Topics include: organic chemistry, thermo- chemical changes, equilibrium, acids and bases, and electrochemical changes. Prerequisite: Chemistry 112

~**CHILD STUDIES 120** - This course is a study of the most significant resource that we possess - children. Child Studies 120 explores how children develop physically, socially, emotionally, and intellectually. Issues are discussed regarding the quality of life and human development, society as a basic unit, the family and parenting skills in our complex and technological society. The importance of the need to provide love, continuity and stability, as well as basic food, clothing, and shelter requirements is addressed. Child Studies 120 includes an exploration of a variety of experiences from conception through to the development of the school age child. Thus, ongoing observations and experiences with children are an essential part of this program.

~**COMPUTER AIDED DESIGN 110** - This course is designed to give students a solid base of knowledge and skill in the drafting area. Through various activities, including sketching, board drawing and computer assisted drawing (CAD), students gain the skills necessary to both visualize and present ideas graphically. The Universal nature of this form of graphic communication makes this course of interest and benefit to a wide range of students beyond those pursuing a career specifically in the Drafting Industry or Technology/Engineering Areas.

~**CO-OPERATIVE EDUCATION 120 (2 or 3 credits)** - This course provides experiential work-based education that extends the learning process into the workplace. It is a course that integrates classroom theory with employability and career skill development thereby furthering the career exploration process of youth. After completing the pre-employment course component, students are placed, if at all possible, in a work field that they are interested in pursuing, where they are provided with challenging tasks and responsibilities and learn by doing. Students spend the equivalent of two periods or three periods on a daily basis, at the workplace. The course is based upon a collaborative partnership between the School and Business/Industry and involves the participation of students, teachers, employers and student supervisors. The Coop 120 course is only available to Potential Graduates. Attendance, Completion of Reports, Attitude, Daily Log Completion, Organization and Commitment are all key to success in the Coop program. Attendance records from previous semesters will be reviewed and a specific application completed before students are registered for this course.

A three credit Coop 120 is available to those students who have met all other Graduation Requirements and have the flexibility in their schedule. This course is recognized as a Fine Art/ Life Role toward Graduation.

~**CULINARY TECH 110**- This course is designed to prepare students for employment and/ or future education in the food 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 knowledge that can be applied to the food service industry. Laboratory experimentation, food preparation, and service are an integral part of the program.

~DIGITAL PRODUCTIONS 120 – This course stresses the theory and processes involved in designing interactive product. Through a hands-on approach students become familiar with the applications needed to create multimedia products. Students will learn how to manipulate text, images, sound and video to create interactive slide shows, web pages, videos and programs.

~ECONOMICS 120- This course provides a basic understanding of our economic system and how it works. The role of Canada's major economic institutions and how they interact is examined. It is designed to develop an understanding of the concepts and techniques needed in making economic decisions and to develop an awareness of the major economic problems and issues of the day. This course can be taken in either Grade 11 or Grade 12 and is recommended for students who plan to follow Business Courses following Graduation. **This course will be offered every second year, alternating with Political Science 120.**

~ENGLISH 112- This is a Full Year, Compulsory Course worth two credits and is designed for students who wish to pursue a post- secondary education. Areas of study include short stories, essays, poetry, a Shakespearean play and novels. Formal and informal presentations, a formal essay and various forms of written composition are required. Prerequisite: English 10

~ENGLISH 113- This is a Full Year, Compulsory Course worth two credits and is designed to prepare students for some Community Colleges and/or direct employment after completion of high school. Areas of study include modern drama, short stories, poetry, and novels. Formal and informal presentations, a formal essay and various forms of written composition are required. Prerequisite: English 10

~ENGLISH 122- This is a One Semester Course designed for students who plan to pursue a post-secondary education. Areas of study include short stories, essays, poetry, a Shakespearean play, and novels. Formal and informal presentations, a formal essay and various forms of written composition are required. Prerequisite: English 112

~ENGLISH 123- This is a One Semester Course designed to prepare students for some community colleges and/or direct employment after completion of high school. Areas of study include short stories, modern plays, poetry, essays, and novels. Formal and informal presentations and various forms of written composition are required. Prerequisite: English 113

~ENTREPRENEURSHIP 110 – This course is designed to teach the student organizational skills and communication skills necessary for the work place. It also includes formulating business plans, studying Canadian Entrepreneurs, and a bit of Canadian Economics. It also includes many different ventures that the student would have to undertake in order to put in practice venture plans, business plans and teamwork. It is very much a “hands-on” type program. This course is recognized as a Fine Art/Life Role toward Graduation.

~FINANCIAL & WORKPLACE MATH 110 - This course is the first of two courses designed for entry into many trades and technical programs, and for direct entry into the work force. Concepts of right triangles, trigonometry, and angles of elevation and depression are applied to contextual problems. Scale models and drawings of 2-D and 3-D objects are constructed from various views and perspectives. Students are challenged to solve problems that involve numerical reasoning. Costs and benefits of renting, leasing and buying are explored, investment portfolios analyzed and personal budgets developed. Students manipulate and apply formulas in a variety of ways and solve problems using proportional reasoning and unit analysis.

Students have a choice of this course or **Foundations of Mathematics 110** to complete graduation requirements. This is a pre-requisite for **Financial and Workplace Mathematics 120**.

- **Opens Doors to Programs such as:** **College Diplomas:** Early Childhood Education, Firefighting, Drafting, Welding, Plumbing, Carpentry. **Bachelor Degrees:** Arts and Fine Arts

~FINANCIAL & WORKPLACE MATH 120

This is the second of two courses in the Financial and Workplace pathway designed for entry into post-secondary trades and technical programs, or for direct entry into the work force. Students explore the limitations of measuring instruments, and solve problems using sine and cosine laws and the properties of triangles, quadrilateral, and regular polygons as they relate to construction, industrial, commercial and artistic applications. Transformations of 2-D and 3-D shapes are identified, drawn with and without technology, and used to create, analyze and describe designs and to solve contextual problems. The viability of small business options are explored including expenses, feasibility, and factors that could impact on profitability. Linear relations are studied, including patterns and trends, graphing, creating tables of values, writing equations, interpolating and extrapolating, and solving problems. Students gain an understanding of mean, weighted and trimmed mean, median and mode, and explore the impact of outliers. They also compare percent and percentile, and explore probability. Opportunity is given to research and present an historical event or an area of interest that involves mathematics.

Financial and Workplace Mathematics 110 or **Foundations of Mathematics 110** can serve as a pre-requisite for this course. This course completes the Financial and Workplace pathway.

~FOUNDATIONS OF MATH 110 - This course is a pre-requisite for a second **Foundations of Mathematics** course in Grade 12, providing a pathway designed for entry into academic programs not requiring pre-calculus. It is also a pre-requisite for the pre-calculus pathway. Students develop spatial sense and proportional reasoning through problems that involve rates, scale diagrams and relationships among similar 2-D and 3-D shapes and objects. Students develop logical reasoning skills and apply this to proofs and problems involving angles and triangles, the sine law and the cosine law. Students model and solve problems involving systems of linear inequality in two variables and explore characteristics of quadratic functions. Costs and benefits of renting, leasing and buying are explored and investment portfolios are analyzed. Students have a choice of this course or **Financial and Workplace 110** to complete graduation requirements. This is a pre-requisite for **Foundations of Mathematics 120** and a pre-requisite or co-requisite for **Pre-Calculus 110**.

- **Opens Doors to Programs such as:** **College Diplomas:** Medical Technology, Business Administration, Practical Nursing. **Bachelor Degrees:** Arts and Fine Arts

~FOUNDATIONS OF MATH 120

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

Foundations of Mathematics 110 is a pre-requisite for this course. This course completes the Foundations of Mathematics pathway.

- **Opens Doors to Programs such as:** **College Diplomas:** Engineering Technology, Computer Technician, Pharmacy Technology. **Bachelor Degrees:** Nursing, Kinesiology, Business Administration, Economics, Psychology.

~FRAMING AND SHEATHING 110 - This course develops knowledge and skills required in the construction of frame buildings. Students study the methods and materials used in framework, from the foundation to the roof, including basic rafters and trusses. This course is to be taken at the same time as Residential Finish 120. Students have to choose both when selecting courses.

~FRENCH 112 and FRENCH 122 - The French Second Language program offers a multi-dimensional approach to the teaching and learning of a second language. French 112 must be taken before French 122. These courses cover the language skills necessary for effective communication in French in daily situations. They are designed for students who wish to broaden their communicative ability in the second language. French 112 and French 122 are not appropriate for students with a background in French Immersion.

~FRENCH IMMERSION CANADIAN HISTORY 122 – This course is Compulsory for students enrolled in the French Immersion Program. See Canadian History 120 for course description.

~FRENCH IMMERSION LANGUAGE ARTS 110, 120 - The French Immersion courses use a multi-dimensional approach to the teaching and learning of a second language. These courses emphasize the use of the language as an instrument for communication and reflection and a factor in students' personal development. A variety of communication activities related to students' experiences that have been designed to help them improve their linguistic skills. The study of literature is an integral part of the courses. This course is Compulsory for students enrolled in the French Immersion Program.

~FRENCH IMMERSION MODERN HISTORY 112 – This course is Compulsory for students enrolled in the French Immersion Program. See Modern History 112 for course description.

~FRENCH IMMERSION WORLD ISSUES 120 - This course is Compulsory for students enrolled in the French Immersion Program. See World Issues 120 for course description.

~HOSPITALITY AND TOURISM 110- The Hospitality and Tourism Industry is identified in Canada and particularly in New Brunswick, as a rapidly growing industry. This course will provide students with lifelong learning skills that are transferable to future learning and/or the hospitality and tourism industry. The student will acquire career information, skill development and the talents for employment. This course relies on resource based learning, practical experiences, access to resource people and information that will help the individual in his/her career choice. Topics include the four main sectors of the tourism industry, influences on the tourism industry, personal and interpersonal skills regarding career opportunities available, travel industry and marketing strategies.

~INDIVIDUAL & FAMILY DYNAMICS 120 – This course provides students with the necessary knowledge, skills, and abilities to meet the challenges of our dynamic and complex society. The course focuses on the development of resourcefulness to assist students in viewing the family from various perspectives and to make informed decisions about solutions to existing and emerging difficulties occurring in everyday living. The interrelatedness between family life and work life is addressed as well as the need to better understand daily family issues and their impact on both the family and work environments. Family Living 120 has been designed for students who plan to undertake further studies in this field and those who wish to expand their knowledge in the area of family studies. This course is recognized as a Fine Art/Life Role toward Graduation.

~INTERNAL COMBUSTION ENGINES 110 - This course is a study of the operation of the internal combustion engine including the construction, theory of operation and function of its systems. Students disassemble and assemble engines, checking, servicing and repairing components and systems. Emphasis is placed on the development of basic skills essential for persons entering the motor vehicle service trades and other allied occupations. This course should be of interest to students interested in entering or learning about the opportunities and requirements of the motor vehicle service industry and students with a general interest in mechanics.

~INTRODUCTION TO ACCOUNTING 120 - This course, ideally suited for students wishing to pursue business studies at post-secondary institutions, introduces the student to accounting procedures, concepts, and applications. Course topics include nature of business, accountancy as a career, bookkeeping procedures, accounting cycle and theory, subsidiary ledgers, accounting and inventory control systems, payroll, adjustments, accruals, partnerships, corporations, statement analysis, and electronic accounting through recommended software packages if available.

~INTRODUCTION TO ELECTRONICS 110 – This course is an introduction to electronics, introducing electronic components such as diodes, transistors, integrated circuits, inductors and capacitors along with basic electronic circuitry. Introductory electronics is application-based using the components and circuitry in such applications as rectification, filtering and amplification. Computer assisted instruction and computer simulation of electrical circuits are an integral part of this course. Introductory Electronics will be of interest to students with a career objective in the electrical occupational area as well as those who plan to continue their education at the technical or engineering level. This course is recognized as a Science toward Graduation.

~INTRO TO ENVIRONMENTAL SCIENCE 120 - This course utilizes classroom discussion, laboratory work, field trips and student seminars. Topics covered include: environmental structure and attitudes, the ecosystem concept, natural resources and population, urbanization, energy and current environmental problems such as acid rain. Examples using local interests in any of the preceding topics may play an important role in the course.

~LAW 120 - This course is designed to give students knowledge of the law, the courts' changing trends, and the major changes the constitution has brought about. Areas of study include the origins of the Canadian legal system, criminal law, civil and human rights, torts/civil law, and contracts. Actual case studies are used to illustrate situations within these areas of law.

~LIFESKILLS 110 – Throughout life we face numerous personal financial choices and decisions. For some of us, the process of making decisions is at best haphazard. Yet analyzing a situation, identifying our choices, and making informed decisions are processes that can be learned and practised. This course is designed to teach how to set long and short-term personal and financial goals; create and work with a personal budget; identify how and when to use credit; save and invest; and understand the basics of banking services. This course is recognized as a Fine Art/Life Role toward Graduation.

~MEDIA STUDIES 120 – This course offers an introduction to the evolution and impact of mass media on the individual and society. The television/video unit is compulsory, accompanied by a choice of three additional units on advertising, film, print and electronic journalism, photography, drama, radio/sound communication, as local circumstances permit. The primary purpose of the course is to have students learn through experiment and exploration; the course is practical and activity based. Students enrolled in Media Studies 120 must be mature enough to meet the high level of independence, reliability and responsibility required of them.

~METALS FABRICATION 110 - This course is concerned with the processes used to cut, form and fasten metal. Emphasis is placed on the development of basic skills needed to use electric-arc and oxyacetylene welding and cutting processes. Machines and processes used to lay out, cut and form sheet metal are also introduced. This course will appeal to students interested in entering occupations in metal working, mechanical technology, mechanical service and primary resource industries.

~METALS PROCESSING 110 - This course is a study of standard machine shop processes used in the manufacture of metal products. Proper operating instruction will be given on a variety of machine tools common to the machine shop trade. Students will apply theory as well as develop practical skills through the production of practical projects. Instructional time of the course will benefit and appeal to those students interested in pursuing a career in the metals processing areas, those who are considering a future education in mechanical engineering or drafting technology areas, and those who would like to explore this area for personal interest or career guidance reasons.

~MI'KMAQ 112- This course will assist students in learning to read and write in Mi'kmaq. Introductory lessons focus on the letters and their corresponding sounds. Later lessons include pronouns, forming the possessive and verb conjugation. Basic vocabulary is introduced throughout the course. Students will be provided with opportunities to practice their newly acquired skills through dictations, question sheets and activities. This is a course that is taught by Listuguj Community Members. Prerequisite: Mi'kmaq Language 9 & 10.

~MODERN HISTORY 112 – This Compulsory Course studies the evolution of the peoples of the west during the nineteenth and twentieth centuries and their widening involvements in global issues. The course describes the rise of nationalist and socialist movements, the international connections growing out of the World Wars and the Cold War era, and the widening global contacts of the contemporary world. This course is a Compulsory Course toward Graduation. Prerequisite: Social Studies 10

~MODERN HISTORY 113 - This Compulsory Course is designed to provide an understanding of the main events of the twentieth century, as well as some familiarity with basic skills used to interpret historical accounts. A survey approach is given to the following topics: Basic World Geography, Industrialisation, Life in the 1920's and 30's, World War I, World War II, and the Cold War. This is a Compulsory Course toward Graduation. Prerequisite: Social Studies 10

~MUSIC 112 and MUSIC 113 – The course consists of three major outcomes that require students to demonstrate achievement in performing music, in the application of theoretical and aural skills and concepts, and, in understanding music in a historical context. The course lists a series of performance indicators that will assist in determining the course level. This course is recognized as a Fine Art/Life Role toward Graduation. Prerequisite: Music 9/10

~NATIVE STUDIES 120 - This course is designed to assist students develop an appreciation of Maliseet and Mi'gmaq cultures and of their many contributions in the development of Canada in general and the Maritimes in particular. The students examine both historical and contemporary contributions. In addition, students are encouraged to recognise and understand the perceptions, needs, values, cultures, lifestyles, and aspirations that characterise Maliseet and MicMac founding peoples.

~NUTRITION FOR HEALTHY LIVING 120 - This course is designed to introduce students to making healthy food choices, maintaining a balance between eating habits and physical activity and the use of preventative strategies that contribute to overall wellness. Current health trends and issues relating to chronic diseases, lifestyles, and food technologies will be explored and students will be encouraged to use research and reliable information to examine their own eating habits and lifestyle choices. This course will be of interest to students concerned with personal wellness and those interested in pursuing a career in science and nutrition or other health related fields.

~OUTDOOR PURSUITS 110 - This is a course that will develop personal outdoor recreation skills based on environmental ethics. Students must satisfy a requirement to complete a series of trips that may be day-trips, overnight excursions or extended trips. There is a course fee for all students enrolled in this course. 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 experiences from personal and group dynamics perspectives. This course is recognized as a Fine Arts/Life Role toward Graduation requirement. This course is intended for Grade 11 students and should not be taken in the same semester as Health and Physical Education/Leadership 120. Prerequisite: Grade 10 Phys. Ed. **This course will be offered every second year, alternating with Wellness Phys. 110.**

~PE LEADERSHIP 120 – This is a "selective-elective" course, with a class limit of 25 students, restricted to Grade 12 students only. It develops leadership skills through involvement in physical activities. This is not an advanced skills course. This course does require a commitment to a minimum of 30 hours of out-of-class responsibilities in the area of leadership, which may focus on sport or recreational activities or other forms of community service. Themes include management, teaching, coaching, officiating, first aid, organizational planning and leadership theory. This course is recognized as a Fine Art/Life Role toward Graduation. Prerequisite: Phys. Ed 10

~PHYSICS 112– This is the first of a two sequential Physics courses. This course is designed for students intending to go to University or Technical school following Graduation. Topics include: wave motion, sound and light, electricity and magnetism, atomic and nuclear structure including harnessing nuclear energy. This course is designed to engage students in relating physics concepts to societal contexts and applications. This course is recognized as a Science toward Graduation.

➤ **Foundations of Math110** is a **Pre-requisite** or **Co-requisite** for **PHYSICS 112**

~PHYSICS 122– This is the second of a two sequential course Physics courses. This course is designed for students intending to go to University or Technical school following Graduation. Topics include: linear motion, forces, two dimensional motion, impulse and momentum, work energy and power. As with Physics 112, each of these topics is studied in its societal context. Student experiences should include library research, laboratory investigations, multi-sources of information including print, software, video and guest speakers. Emphasis is placed on student-centred activities transformations, properties of exponents and logarithms, and exponential and logarithmic equations). Prerequisite: Physics 112

~POLITICAL SCIENCE 120– This course is an introductory political science course designed to develop an understanding of various political ideologies and systems, as well as the ability to assess the merits of each and to make comparisons (particularly with respect to the Canadian system). **This course will be offered every second year, alternating with Economics 120.**

~POWER TRAIN AND CHASSIS 110- This course is designed to develop skill and knowledge in the service and maintenance of the automobile chassis and power train. Emphasis is placed on the function, repair and replacement of components. Topics include spring and shock assemblies, brakes, steering, wheel bearings, tires, transmissions, differential and drivelines. Students seeking admission to the motor vehicle service industry, as well as those seeking guidance about a career choice should benefit from this course.

~PRE- CALCULUS 110 - This course, followed by later courses in Pre-Calculus and Calculus is designed for entry into post-secondary programs requiring Pre-Calculus. Students demonstrate an understanding of absolute value of real numbers, and solve problems that involve radicals, radical expressions, radical equations. Students determine equivalent forms, simplify rational expressions, and solve problems that involve rational equations. They develop an understanding of angles in standard position (0° - 360°) and solve problems for these angles using the three primary trigonometric ratios. Polynomial expressions are factored and absolute value functions and quadratic functions are analyzed and graphed. Students solve problems that involve quadratic equations and solve, algebraically and graphically, problems that involve systems of linear-quadratic and quadratic-quadratic equations in two variables. They also solve problems that involve linear and quadratic inequalities in two variables, and quadratic inequalities in one variable. This course is a pre-requisite for **Pre-Calculus 120A**. Pre-requisite or co-requisite for **Pre-Cal 110** is **Foundations of Math 110**.

➤ **Opens Doors to Programs such as:** **College Diplomas:** Engineering and Environmental Technology. **Bachelor Degrees:** Nursing

~PRE- CALCULUS A 120

This course follows Pre-Calculus 110 and precedes Pre-Calculus B 120. Students demonstrate and apply an understanding of the effects of horizontal and vertical translations, horizontal and vertical stretches, and reflections on graphs of functions and their related equations. They are introduced to inverses of functions, logarithms, and the product, quotient and power laws of logarithms and use these laws and the relationship between logarithmic and exponential functions to solve problems. Students are introduced to angles in standard position, expressed in degrees and radians, and to the unit circle. The six trigonometric ratios, and the sine, cosine and tangent functions are used to solve problems. First and second degree trigonometric equations are solved algebraically and graphically with the domain expressed in degrees and radians. Trigonometric identities are proven using reciprocal, quotient, Pythagorean, sum or difference, and double-angle identities.

Pre-Calculus 110 is a pre-requisite for this course, and this course is a pre-requisite for **Pre-Calculus B 120**. *Most Programs that require **Pre-Calculus A 120**, also require **Pre-Calculus B 120**.

~PRE- CALCULUS B 120

This course follows Pre-Calculus A 120 and precedes Calculus 120. Students analyze arithmetic and geometric sequences and series to solve problems. They learn to factor polynomials of degree greater than 2, and to graph and analyze polynomial functions. They also graph and analyze radical, reciprocal and rational functions, building a function toolkit. Students are introduced to the concept of limits and determine the limit of a function at a point both graphically and analytically. They explore and analyze left and right hand limits as x approaches a certain value using correct notation, analyze the continuity of a function and explore limits which involve infinity.

Pre-Calculus A 120 is a pre-requisite for this course, and this course is a pre-requisite for **Calculus 120** (to be implemented September 2014)

Opens Doors to Programs such as: **Bachelor Degrees:** Science, Computer Science, Engineering, and Mathematics.

~RESIDENTIAL FINISH AND INSULATION 120– This course teaches the knowledge and skills needed to complete the interior and exterior of a building. Through hands-on experience, students learn about insulation, wall and ceiling cladding, and the installation of doors and windows. Through hands-on experience, students learn about exterior wall cladding and frames, as well as cornice trims and roof coverings. This course is to be taken at the same time as the Framing and Sheathing 110 and therefore students have to choose both when selecting courses.

~TECHNICAL SUPPORT 110– This course provides opportunities for students to gain foundation skills and knowledge in serving microcomputers and peripheral devices. Topics covered include PC Hardware, DOS and Windows, Macintosh Networking, Printers and troubleshooting. Hands-on activities and a variety of resources aid students in achieving course outcomes. Flexibility is built into the course to meet the learning needs of all students. Upon completion, the student is prepared to write an A+ certification exam.

~THEATRE ARTS 120- This course deals with the major aspects of theatre performance, including acting and interpretation, stagecraft, play management, and theatre history. The course offers students an opportunity to deal with both practical and theoretical issues as they relate to drama and theatre arts. This course is recognized as a Fine Art/ Life Role toward Graduation.

~TUNE-UP AND EMISSIONS 120- This culminating course is designed to refine students' skills and knowledge necessary for performing engine tune up as well as for the diagnosis of electrical system related problems. A major emphasis is placed on the retrieval of data and interpretation of collected data. A full range of automotive electrical systems is covered, including lighting, instruments and power accessories.

~VISUAL ARTS 110– This course builds on the experience and knowledge gained in Visual Arts grade 10. The studio work remains in the areas of drawing, painting, printmaking and 3-dimensional work and stresses personal expression and the development of individual imagery and there are further requirements in art criticism and art history.

This course is recognized as a Fine Art/Life Role toward Graduation. Prerequisite: Visual Art 9/10.

~VISUAL ARTS 120– This course is designed for students who wish to pursue art-related interests or careers. Students work through a review of skills and concepts and choose blocks that lead to advanced work on a particular medium. Students are required to critique, in writing, aspects of process and product.

~WELLNESS THROUGH PHYSICAL EDUCATION 110 - The goal of Wellness through Physical Education 110 is to promote healthy active living for life. The course is intended to encourage a broad-based exploration of a variety of activities, highlighting non-traditional approaches to fitness and wellness (e.g. yoga, hiking, personal training, etc.). The course offers a range of learning experiences for students that encourage healthy active living, but are not sport specific. Students will personalize their learning by researching, self- assessing and determining personal preferences for engaging in lifelong physical activity. Students will apply knowledge of fitness and wellness concepts to the creation of a personal healthy active living plan. The curriculum includes a practical activity based segment (approximately 60%) as well as a classroom component (approximately 40%). Prerequisite: Phys. Ed 10. **This course will be offered every second year, alternating with Outdoor Pursuits 110.**

~WORLD ISSUES 120 – This course examines various issues that are global in nature and that require a global solution. The concept of the global village is studied, as is the relationship between nations as players in the global community. Various issues are examined to acknowledge the fact that events in any part of the World have a reverberating effect. The future of the global community is also examined.

2014-2015 SSSH COURSE REGISTRATION FORM

GRADES 11 & 12

STUDENT NAME

GRADE

Business Ed/Technology

Business Organization & Management 120
Introduction to Accounting 120
Law 120
Tech Support 110
Digital Productions 120

English

Business Communications 110
English Language Arts 112 (2 credits)
English Language Arts 113 (2 credits)
English Language Arts 122 (1 credit)
English Language Arts 123 (1 credit)
Media Studies 120

Fine Arts/Life Role

Coop Education 120 (2 credits)
Coop Education 120 (3 credits)
Entrepreneurship 110
Individual & Family Dynamics 120
PE Leadership 120
Lifeskills 110
Music 112
Music 113
Outdoor Pursuits 110 (2015- 2016)
Theatre Arts 120
Visual Art 110
Visual Art 120
Wellness through Phys. Ed 110(2014- 2015)

Second Language

French 112
French 122
Mi'gmag 112

French Immersion

FI Canadian History 120
FI Language Arts 110
FI Language Arts 120
FI World Issues 120
FI Modern History 112

Home Economics

Child Studies 120
Nutrition for Healthy Living 120
Hospitality & Tourism 110
Culinary Tech 110

Science

Automotive Electrical Systems 120
Biology 112
Biology 113
Biology 122
Chemistry 112
Chemistry 122
Intro to Environmental Science 120
Introduction to Electronics 110
Physics 112
Physics 122

Social Sciences

Canadian History 120
Economics 120 (2015- 2016)
Modern History 112
Modern History 113
Native Studies 120
Political Science 120 (2014-2015)
World Issues 120

Vocational Education

Computer Aided Drafting 110
Internal Combustion and Engines 110
Metal Fabrication 110
Metal Processing 110
Power Train and Chassis 110
Tune Ups and Emissions 120
Framing and Sheathing 110
Residential Finish 120

Must be taken
together

Mathematics

Foundations of Math 110 (academic)
Financial & Workplace 110
Pre-Calculus 110
Foundations of Math 120
Financial & Workplace 120
Pre-Calculus A120
Pre-Calculus B 120
Calculus 120