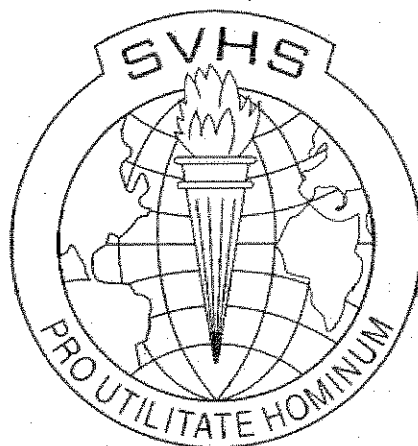


SOUTHERN VICTORIA HIGH SCHOOL

***Perth-Andover, NB
Telephone: 273-4762***



***Mini-Brochure Guide
For Course Selections
For Grades 11 and 12***

Introduction:

Parents are urged to review the mini-brochure of courses and assist their children in making wise decisions. It should be pointed out that there is no need to take all courses at one particular level. Courses and the total workload should be tailored to the particular needs and abilities. If there is need for any clarification, please do not hesitate to call the guidance office at 273-4500 during regular school hours.

High School Graduation Requirements for Graduates:

Students must successfully accumulate 17 credits. The following list constitutes the compulsory subjects:

English 112, 113 (one of) 2 credit course
English 122, 123 (one of)
Financial and Workplace Math 110 or
Foundations of Math 110 (one of) 1 credit course
One Science Course
Modern History 112, 113 or FI Histoire 112 (one of)
One from Fine Arts/Life Role Development
Four (4) courses that are designated at the Grade 12 level
Plus six (6) elective courses at the Grade 11 or 12 level

Students must also have passed the Grade 9 English Proficiency Assessment and both grade 10 math classes. Only two local option courses are allowed as part of high school credit requirements.

ENGLISH

ENGLISH 112 and 122 - are appropriate for students intending to pursue studies at university. Each of these English courses will provide a wide variety of experiences in speaking and listening, reading and viewing, writing and other ways of communicating. English 112 will focus on information and media literacy, encouraging students' expansion and control of their own use of language. Significant literary pieces from the past as well as those of contemporary and personal interest should be among the print and visual test students encounter. English 122 will concentrate on critical and personal response to Canadian and world literature. English 122 is a compulsory course for entrance to universities. English 112 and 122 is available on line.

ENGLISH 113 and 123 - are intended for students who do not plan to attend university. Most colleges (NBCC) will accept a level three credit in English in the majority of their programs. These English courses provide a variety of experiences with language and text to develop students' competencies in speaking, listening, reading, viewing, writing and other ways of representing.

English level three courses may differ in terms of pace, scope, emphases and resources from level two, but all students in all levels will work toward achieving the same English outcomes.

High priority is given to student development or reading and viewing comprehension and to effective oral and written/other communication. Students will concentrate on improving strategies for learning from literacy, technical and media text; practical and personal writing is stressed.

WRITING 110 - is intended to encourage students to practice and experiment with the language in written form. The course offers students opportunities to reinforce and enrich their writing skills through processes where exploring, drafting, revising, editing, sharing and reflecting are encouraged. Students will enter the course with varying skill level; participation in class and individual growth in writing will be considerations in evaluation. This course is also available on line.

JOURNALISM 120 - provides students with intensive practice in writing and editing. Students learn to identify or generate story ideas, to gather information and to write and edit their stories with a view to publication. The activities accompanying preparation for publication engage students in creative skills such as writing, design, layout and photography and practice skills such as budgeting, meeting deadlines and working in a team.

MEDIA STUDIES 120 – 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. This course is also available on line. 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.

ADVANCED PLACEMENT – LITERATURE - The AP English Literature and Composition course is designed to engage students in the careful reading and critical analysis of imaginative literature. Through the close reading of selected texts, students can deepen their understanding of the ways writers use language to provide both meaning and pleasure for their readers. As they read, students should consider a work's structure, style, and themes, as well as such smaller-scale elements as the use of figurative language, imagery, symbolism, and tone. This is a highly rigorous course, designed for academically strong students seeking a challenge. Offered second semester, the final AP exams are written in May, so the course moves along very quickly. Students will be expected to do a considerable amount of work on their own. Many universities offer second year placement in English upon successful completion and a strong assessment in Advanced Placement Literature. Students must register on the AP website and there is a separate fee (around \$85 US) for writing the AP exam.

FRENCH IMMERSION AND FRENCH SECOND LANGUAGE

FRENCH IMMERSION LANGUAGE ARTS 110 and 120 – The French as a Second Language Program uses 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 that are related to students' experiences have been designed to help them improve their linguistic skills. The study of literature is an integral part of the courses

FRENCH IMMERSION MODERN HISTORY 110 – see Modern History 112

FRENCH 112 and 122 - The French Second Language program offers a multi-dimensional approach to the teaching and learning of a second language. 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.

MATHEMATICS

FINANCIAL AND WORKPLACE MATH 110 – This course is the first 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. 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 11 to complete graduation requirements. This is a pre-requisite for Financial and Workplace Mathematics 12.

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 11 to complete graduation requirements. This is a pre-requisite for Foundations of Mathematics 12 and a pre-requisite or co-requisite for Pre-Calculus 11.

PRE-CALCULUS 110 - This course, followed by later courses in Pre-Calculus and Calculus is designed for entry into post-secondary programs requiring Pre-Calculus. Students demonstrate an understanding of absolute value of real numbers, and solve problems that involve radicals, radical expressions, and radical equations. Students determine equivalent forms, simplify rational expressions, and solve problems that involve rational equations. They develop an understanding of angles in standard position (0° to 360°) and solve 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 12A.

FINANCIAL AND 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 MATHEMATICS 120 - *This is the second of two courses in the Foundations of Mathematics pathway designed for entry into post-secondary academic programs not requiring pre-calculus. In statistics, students are introduced to normal curves, and learn to interpret statistical data, using confidence intervals, confidence levels, and margins of error. To develop logical reasoning students analyze puzzles and games, and solve problems that involve application of set theory and conditional statements. The validity of odds and probability statements are assessed and problems are solved that involve probability of two events, the fundamental counting principle, permutations, and combinations. The binomial theorem is used to expand powers of a binomial. Data is represented using polynomial functions, exponential and logarithmic functions and sinusoidal functions to solve problems. –Foundations of Mathematics 110 is a pre-requisite for this course. This course completes the Foundations of Mathematics pathway.*

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.*

PRE-CALCULUS B 120 - *This course follows Pre-Calculus A 120 and precedes Calculus 120 (contact school for this option 2013–2014). 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).

Calculus 120 - This is the last course offered in the Pre-Calculus Pathway and follows Pre-Calculus B 120. This course develops the concepts of average and instantaneous rates of change. Derivatives are determined by applying the definition of a derivative and the derivative rules including the Chain Rule, and are determined for trigonometric functions. Limits and derivatives of exponential and logarithmic functions are found. Calculus techniques are used to sketch graphs of functions and to solve optimization problems. Problems are solved involving inverse trigonometric functions, related rates, and the application of the integral of a function from a variety of fields. The definite integral and the anti-derivative of a function are determined. This course is recommended for students interested in post-secondary programs in science, engineering and mathematics, though it may not be a required entrance requirement. Students should check entrance requirements for the specific program and institution in which they are interested.

Pre-Calculus A120 and Pre-Calculus B120 are pre-requisites for this course.

SOCIAL STUDIES

MODERN HISTORY 112 – is a rigorous study of 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. Modern History 111 is available on line. This would be an academic enriched program.

MODERN HISTORY 113 – 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 account. A survey approach is given to the following topics: Revolution (Industrial and French) World I and II, genocide and the Cold War. This course is available on line.

CANADIAN GEOGRAPHY 120 – is a study of the ever-changing cultural and physical landscapes of Canada and how they impact on each other. It examines physical systems and inter-relates these with man-made structures and systems. It involves environmental issues with are currently pertinent to the lives of Canadians. Geographic understandings and skills are integrated throughout the course. This course is available on line.

ECONOMICS 120 – 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 is available on line.

NATIVE STUDIES 120 – is designed to assist students to develop an appreciation of Maliseet and

Micmac 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 recognize and understand the perceptions, need, values, cultures, lifestyles and aspirations that characterize Mailiseet and Micmac founding fathers.

WORLD ISSUES 120 – 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. This course is available on line.

POLITICAL SCIENCE 120 – is an introductory course designed to develop a basic understanding and knowledge of the world's political ideologies and systems. Throughout the course students will be expected to assess and compare the merits of those ideologies and systems to the Canadian system.

SOCIOLOGY 120 - Sociology is the study of society, which is defined as the set of forces exerted by people over one another and themselves. Sociologists attempt to understand human behaviour by placing it within a broader social context. Sociology looks both in and outwards. It teaches us about others and helps us to understand our own behavior.

SCIENCE

PHYSICAL GEOGRAPHY 110 – is the study of the physical features of the earth and their effects on mankind. It examines the interaction among all components of the environment and emphasizes the relationship between the land and humanity. It examines climatology and meteorology and their impact on the people. It is designed to develop an understanding of the basic principles of the geographic method which will enhance transferable skills. This course is available on line.

BIOLOGY 112 – emphasizes the nature of life. Lecture and demonstration methods are used together with laboratory program. Science 10 will prepare students for this Biology course. 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 120.

BIOLOGY 113 -- emphasizes human life functions; such as, nutrition, transport, respiration, excretion, 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.

BIOLOGY 122 – is a challenging course. Major topics covered are: systems regulating change in human and other organisms, reproduction and development, chromosomes, genes, DNA, and change in populations, communities and species. This course is available on line. There is also Biology 121 available on line. This is an academic enriched program.

CHEMISTRY 112 – emphasizes learning chemistry through the scientific method. The experiments

are designed so that students make observations and draw conclusions which lead directly to important chemical principles. Chemistry 112 is designed to complement Science 9 and 10. 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. Chemistry 111 is available on line. This is considered an academic enriched program.

CHEMISTRY 122 – emphasizes learning 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, thermochemical changes, equilibrium, acids and bases, and electrochemical changes. Chemistry 121 is available on line. This is considered an academic enriched program.

ENVIRONMENTAL SCIENCE 120 – aims to help students develop the knowledge base and skills for investigating and analyzing environmental world issues and for communicating their knowledge and analysis to others. Course topics include basic ecology, environmental awareness, population growth and resource limitations, sustainable ecosystems and communities. Students also learn how to research a variety of current environmental issues and to present their findings. Assessment is based on contribution to discussions, journals, and the course blog; self-assessments and activities; assignments and tests; and the main project which includes independent research, experimental work, stewardship tasks, and a collaborative presentation.

PHYSICS 112 – includes the following topics: wave motion, sound and light, linear motion, forces, momentum, work energy and power. This course is designed to engage students in relating physics concepts to societal contexts and applications. It may be taught from context to concepts or the reverse sequence. A student centered approach to theoretical and practical investigations is the basis of this curriculum. Information from a variety of sources is encouraged. Science 9 and 10 prepare students for Physics 112. This course is available on line.

PHYSICS 122 – includes the following topics: electricity and magnetism, atomic and nuclear structure including harnessing nuclear energy, forces, two dimensional motion, impulse and momentum. As with Physics 112, each of these topics is studied in its societal context. Students experience should include internet research, laboratory investigations, multi-sources of information including print, software, video and guest speakers. Emphasis is placed on student-centered activities. This course is available on line.

LIFE ROLE AND FINE ART COURSES

ENTREPRENEURSHIP 110 - is the study of the skills involved in owning and operating a business. Students will be required to work in groups or on their own to plan and operate a small business. Topics that will be discussed are types of business ownerships, risk taking, financing and business plans.

OUTDOOR PURSUITS 110 – will develop personal outdoor recreation skills based on environmental ethics. Students must satisfy a requirement to complete a series of out-trips and may be day-trips,

overnight 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.

HEALTH AND PHYSICAL EDUCATION 110 – develops leadership skill through involvement in physical activities. This is not an advanced skills course. This course requires a commitment of responsibilities in the area of leadership, which may focus on sport or recreational activities or other forms of community services. Themes include management, teaching, coaching, officiating, first aid, organizational planning and leadership theory.

PHYSICAL EDUCATION AND LEADERSHIP 120 - is not intended to be an activity course where varsity athletes can hone their skills. Rather, this course seeks to use Physical Education and recreational activities as a tool for creating concrete leadership experiences, and developing leadership potential.

VISUAL ARTS 110 – builds on the experience and knowledge gained in Visual arts 9/10. 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.

VISUAL ARTS 120 – is designed for students who wish to pursue art related interests or careers. Students work through an introductory 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.

GRAPHIC ART AND DESIGN 110 – helps students refine skills in manipulating, reorganizing and rethinking images and their components to communicate efficiently and effectively. Students increase awareness of the influence of the media. Students understand the relationship between art and technology.

THEATRE ARTS 120 – deals with the major aspects of theatre performance, including acting and Interpretation, stage craft, 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.

INDIVIDUAL AND FAMILY DYNAMICS 120 – The overall aim of this course is to provide 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 ever day living. The interrelatedness between family life and work life is addressed as well as the need to understand better daily family issues and their impact on both the family and work environments.

CO-OPERATIVE EDUCATION 120 – provides experimental 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.

Students are placed in work environments where they are provided with challenging tasks and responsibilities and learn by doing. 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. Students have to apply for a position within the program as they would have to for any job. They must go through the interview process and present their portfolios.

MUSIC 112 – 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 performances indicators that will assist in determining the course level.

MUSIC 113 – builds on the skills and concepts acquired in Music 10, offers students an opportunity to develop technical and performance skills on an instrument, theory and aural skills, music literacy, judge a variety of repertoire, to listen and judge music with discrimination

Music 112 and 113 will also be offered as a choral class. The same musical outcomes will be covered, but using voice rather than an instrument. Students need not have had formal vocal training but need to like singing as that will be a key component of the program.

MUSIC 122 – is designed for the advanced and serious student of music who wishes to pursue the subject as an avocation or who may be interested in further studies at the post-secondary level. The course assumes an advanced level of musical literacy, good aural skills, a sound theoretical background, knowledge of historical styles and forms and an interest in improving upon and expanding their areas of musical knowledge and expertise.

MUSIC 120 – sees music from a “Global Village” perspective, exploring music from around the world. Students make, create and present music, understand connections among time, place and community, perceive, reflect and respond to musical experiences across world music.

DANCE AND CULTURE 120 – an opportunity to develop dance skills and participate in a dance presentation with the rest of the class in front of a live audience. This is a local option course.

COMPUTER

INFORMATION TECHNOLOGY 110 – provides considerable hands-on computer experience through the use of an appropriate integrated software package. The students will be provided with an introduction to word processing, database, spreadsheet, communication and graphic-oriented software. It also provides a theoretical foundation that will provide an understanding of the role computer play in modern society.

ROBOTICS AND AUTOMATED PROCESSING 120 – introduces students to the skills and knowledge required to pursue further studies in the robotics field. Three main disciplines – computer science, electronics and engineering, interrelate in robotic technology concepts. Students will work to create automatic or robot-operated systems that model concepts used in industry.

There are numerous on line computer related courses available on line. They are: Technical Support 110, Computer Science 110, Computer Science 120, FI Technical Support 110, Information

Technology 110, and Information Technology 120.

VOCATIONAL COURSES
(Not necessarily offered every year)

INTRODUCTION TO ACCOUNTING 120 – 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. This course is available on line.

LAW 120 – is designed to give students knowledge of the law, the courts' changing trends and the major changes the constitution has brought. 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. This course is available on line. FI Law 120 is also available on line.

CULINARY TECHNOLOGY 110 and 120 – is designed to prepare students for employment and/or future education in the food service industry. This technology-driven and skill-orientated 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.

HOSPITALITY AND TOURISM 110 – 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 resources 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. This course is available on line.

CHILD STUDIES 120 – explores how children develop physically, socially, emotionally and intellectually. Issues are discussed regarding the “quality of life” and human development, “society’s basic unit”, the family plus parenting skills in our complex, consuming and technological society. The importance of the need to provide love, continuity and stability, as well as the basic food, clothing and shelter requirements is addressed. Child Studies 120 includes a variety of human centered experiences from conception through to the development of the school age child.

HOUSING AND INTERIOR DESIGN 120 – studies the history of housing, the developments in technology and style of living situations, as well as developing interior living spaces for houses and apartments.

NUTRITION FOR HEALTHY LIVING 120 – studies the science of food relation to Canada’s Food Guide and the relationship between food, nutrition and wellness. It emphasizes the decision making process concerning the use of both human and non-human resources required for safety and sanitation, dietary planning, food preparation and the concept of nutritional wellness. Nutrition issues are discussed regarding food on a global and regional level, food trends and lifestyles, eating disorders and new food technologies. Hands on laboratory experiments provide an integral part of this program. This course is available on line.

READING TUTOR 120 – is reading tutor course that pairs senior student tutors with younger struggling readers, helping the young readers to achieve an acceptable standard of literacy. The high school student works with the young student’s cooperating teacher to implement strategies that will augment literacy.

FASHION AND FABRIC 120 – is intended for students who wish to expand their knowledge of the field and who wish to undertake further studies in this area. It is designed to develop an individual’s skills and talent covering the basic elements necessary to create a marketable design.

Industrial Education:

FRAMING AND SHEATHING 110 – will provide students with skills and knowledge associated with the framing-in or shell construction of typical single family dwellings. Students will participate in construction and planning activities which includes interpretation of the National Building code, blueprint reading, estimation and material layout.

LAYOUT FOUNDATIONS 110 – introduces the student to the method, tools, equipment and skills used to locate a building foundation. Through “hand-on” experiences, building locations and elevations are established followed by the construction of various footing and wall form systems. The placement and testing of various concrete mixes are also studied. This course should be of interest to students seeking admission to the construction industry as well as those seeking guidance about a career choice.

ELECTRICAL WIRING 110 – is a residential wiring course with an emphasis on the lighting and power circuits normally found in a single-family dwelling. Students will progress from a study of the basic equipment, supplies and techniques used in residential wiring to the design and placement of the total electrical circuit requirements of a single-family dwelling as prescribed by the Canadian Electrical Code. This course will be of value and interest to those with a career objective in the electrical technology/electrical trade area or who have a personal interest in electrical wiring.

COMPUTER AIDED BASIC DRAFTING 110 – 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.

INTERNAL COMBUSTION ENGINES 110 – is a study of the operation of the internal combustion engine including the construction, theory of operation and function of its system. 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 industry and students with a general interest in mechanics.

MILL AND CABINET WORK 120 – is a finish woodworking course in which students will develop the necessary skills, knowledge and work habits required to construct cabinets and other miscellaneous mill work typically found in residential dwellings. Students, through a series of projects, will be involved with all aspects of mill work including planning, estimation, operation of woodworking equipment and machines and finish operations. This course will be of benefit to those students interested in entering the construction or woodworking occupations as well as for those with a general interest in woodworking

AGRICULTURAL SCIENCE 120 – is a two credit course offered to students interested in learning about the agricultural industry and participating in a cooperative work experience in one of the many areas of agriculture; intended to provide general level knowledge about all aspects of agriculture and offer the opportunity for students to experience an eight week cooperative work placement in the agricultural industry. Agricultural Science 120 is designed to generate interest; to meet the needs of both career oriented students and those taking the course out of general interest. The course is delivered through a combination of classroom activities, guest speakers and professionals from different disciplines in agriculture, visitations to areas of interest as they relate to topics covered in class and a supervised work placement within the agricultural community. (A local option course)

ON-LINE COURSES

Student requirements: Before registering in an E-Learning course, students need to be aware that E-Learning courses have a heavy work load and that they must be willing to commit to approximately 10 hours per week to complete the work. Students must have:

- ✓ The ability to work independently
- ✓ Good reading skills
- ✓ Very good independent study skills
- ✓ Intermediate-level computer skills
- ✓ Arrange to have a teacher mentor

Students must complete all required work to receive credit for an E-learning course. It would be strongly recommended that students have a computer at home with internet access. A detailed list of courses offered on-line can be seen by visiting: <http://www.gnb.ca/0000/as/dl-e.asp>

A student cannot register for an on-line course. He or she must register with the guidance counselor first. Students wishing to take courses at summer school or correspondence must see the guidance counselor before applying.

Last revised: April 23, 2014