

Bedford and Forsyth Education Centres Course Selection Booklet

2026 - 2027



Phone: (902) 832-8630

E-mail: bfec@hrce.ca
bfec.hrce.ca

**Main Administrative Office
1658 Bedford Highway, Suite 0070
Bedford, NS**

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BFEC Contact Information

1658 Bedford Highway, Suite 0070

Ph: (902) 832-8630

bfec@hrce.ca

<http://bfec.hrce.ca>

Administration

J. Feeney	Principal	Extension 1001001	jfeeney@hrce.ca
V. White	Vice-Principal (Forsyth Campus)	Extension 1001202	vwhite@hrce.ca
E. Sheridan	Vice-Principal (Bedford Campus)	Extension 1001002	esheridan@hrce.ca
M. Paris	Registrar	Extension 1001006	mparis@hrce.ca
J. McDowell	Admin Assistant Bedford Campus	Extension 1001000	jcmdowell@hrce.ca
N. Belliveau	Admin Assistant Dartmouth Campus	Extension 1001200	nbelliveau@hrce.ca

School Counsellors

S. Mantley	School Counsellor (Forsyth Campus)	Extension 1001205	smantley@hrce.ca
H. Hughes	School Counsellor (Bedford Campus)	Extension 1001005	hhughes@hrce.ca

Principal's Message

The BFEC Course Selection Booklet is an important resource for students and adult learners. This information will support students as they make their course selections for high school graduation and plan for post-secondary studies or to enter the workforce.

Please read through the requirements for high school graduation and look closely at program options and course descriptions before making final decisions. If you have any questions, please speak with one of the school counselors. Students should make course selections in consultation with their parents, teachers, and school counselors.

All courses are considered tentative. Whether a course is offered depends on the number of students who enroll and the credits that must be offered to support grade 12 students meeting graduation requirements. Our school staff is very small, so it is not possible to offer the wide range of courses that are available at other high schools.

BFEC is unique because we have two campuses, one in Bedford and one in Dartmouth. It is possible for a student to take courses at both campuses over the course of the school year. Some courses may be offered at one campus and not the other.

Please remember that regular attendance and course participation are the keys to your success in school. BFEC staff will support you, but you need to attend to benefit from that support. At BFEC we are building skills for life.

Jarrett Feeney

Jarrett Feeney
Principal

NOVA SCOTIA HIGH SCHOOL DIPLOMA GRADUATION REQUIREMENTS

- 18 total credits are required for graduation
- 5 credits must at the Grade 12 level
- Only 7 Grade 10 credits will count

Requirement	Courses that meet this requirement
Grade 10 English	ENG 10
Grade 11 English	ECM 11, ENG 11
Grade 12 English	ECM 12, ENG 12
Grade 10 Math	Math 10 Essentials, Math at Work 10, Math 10 (2 credits: 1 math and 1 grade 10 elective credit)
Grade 11 Math	Math 11 Essentials, Math at Work 11, Math Essentials 12, Math at Work 12, Mathematics 11, Mathematics 12, Pre-calculus 11, Pre-calculus 12, Calculus 12
Grade 12 Math	Only required for students entering high school in the 2017-2018 school year or later! Math 12, Math at Work 12, Math Essentials 12
Science credit 1	Science 10, Biology 11, Chemistry 11, Physics 11
Science credit 2	Science 10, Biology 11, Chemistry 11, Physics 11, Oceans 11, Food Science 12, Biology 12, Chemistry 12, Physics 12, Geology 12, Netukulimk 12 Please note that students cannot obtain credit for both Biology 11 and Human Biology 11.
Canadian studies credit	Mi'kmaq Studies 11, Contemporary Canadian Studies 11, African Canadian Studies 11
Global studies credit	Global Geography 12, Global History 12, Global Politics 12, Global Sustainable Solutions 12
Physical education credit	Phys Ed 10, Physically Active Living 11, Phys Ed 11, Yoga 11, Phys Ed 12, Dance 11 (either as a physical education credit or arts credit, but cannot be used for both)
Fine arts credit	Visual Art 10, Visual Art 11, Visual Art 12, Drama 10, Music 10, Music 11, Music 12
Math, tech or science credit 1	Any of the science or math credits listed above or Exploring Technology 10, Business Technology 11, Design 11, Production Technology 11, Electrotechnology 11, Communications Technology 11, Communications Technology 12, Production Technology 12, Multimedia 12, Film and Video Production 12
Math, tech or science credit 2	Same courses as above (Math, tech or science credit 1)

Note: Only one credit will be given for a course in the **same subject at the same grade level**, although both will be shown on the student transcript. For example, if a student completes English Communications 12 and English 12, it will only count as one credit toward the 18 credits required for graduation.

NSSAL: Nova Scotia High School Diploma for Adults

The *Nova Scotia High School Diploma for Adults* is a diploma issued by the Department of Labour & Advanced Education. It recognizes the recipient as having completed a high school or secondary education.

Who is eligible to apply for this diploma?

- 18 years of age or older and not currently be enrolled in school
- Currently reside in Nova Scotia and be a Canadian citizen or permanent resident or protected persons

Nova Scotia Adult Diploma Graduation Requirements

- **12 credits** (6 compulsory and 6 elective) required for graduation
- **All credit must be at the grade 11 or grade 12 level**
- **5 credits must be at the Grade 12 level**
- **The following are the 6 compulsory credits required for graduation:**

Subject	Grade Level	Credits Needed
English/French Language Arts or Communications	11	1
English/French Language Arts or Communications	12	1
Mathematics	11 or 12	1
Biology , Chemistry, Physics, Human Biology, Food Science, Oceans, Geology, Netukulimk 12	11 or 12	1
Technology or Mathematics or Science or Social Studies	11 or 12	1
Global History or Global Geography or Global Sustainable Solutions	12	1

- **6 additional credits at the grade 11 or 12 level**

Registration Matters

Please Note: The information contained in this publication is as accurate as possible at the time of printing. It is important that you familiarize yourself with its contents.

To assist you in course selections, consult with your School Counsellor and check the **Department of Education** website: <http://www.ednet.ns.ca>.

ASSESSMENT AND EVALUATION POLICY

Teachers will achieve balanced assessment of student learning by using a variety of assessment strategies. In the first week of the course, each student will receive a written outline of the assessment and evaluation plan, including course components and values. Teachers will inform their students of any changes to the plan. No single assessment event will be valued at more than 30% of the final mark. Final exams are worth 20%.

ATTENDANCE

Student success is directly linked to attendance. Students are expected to attend all classes regularly.

CHALLENGE FOR CREDIT

Challenge for Credit opportunities exist in certain courses (Fine Arts, Languages, Mathematics, and Physical Education). There is no Challenge for Credit for Language Arts programs (this includes Français 10, 11 & 12). Challenge for Credit provides a process for students to demonstrate that they have already acquired the skills, knowledge, and attitudes outside of the classroom setting that an existing course seeks to develop. Check with your School Counsellor for further information on this process.

PERSONAL DEVELOPMENT CREDITS

Beginning in September 2012, all high school students in Nova Scotia will be able to earn personal development credits and have these count as one of the five elective credits they need to graduate. Students can earn personal development credits in three areas: arts, languages and leadership. Personal development credits will be awarded for approved courses, programs, for approved courses or programs of a high school standard that contribute to the Atlantic Essential Graduation Learnings and meet standards defined in the policy directives and guidelines.

The Personal Development Credit Policy will acknowledge the value of student learning outside the public school system by recognizing high school credit, achievements and credentials earned in the community. Check with your School Counsellor for further information on this process.

RESOURCE SUPPORT

Resource provides services for students who have been identified as requiring additional planning and support to meet their learning style. The subject teacher, along with the Resource teacher, will work together to develop and implement any necessary adaptations to the program to assist these learners in meeting provincial outcomes. This may include teaching strategies, classroom organization, curricular content and alternative assessment and evaluation practices. When students with adaptations are not able to meet provincial outcomes, an Individual Program Plan (IPP) will be developed. Parents/guardians will be involved in decisions regarding program adaptations and IPP's.

COURSE SELECTION ADVICE FOR STUDENTS

- All courses offered are conditional upon adequate enrollment. It may also be necessary to limit the number of students in a course because of factors such as space, resources and safety.
- Course changes will be based on academic need and assessed on an individual basis only in exceptional circumstances.
- Students and parents are encouraged to use the services of School Counselors, Subject Teachers, or Administration for information on course selection, career and educational opportunities, study skills, and other areas of concern.
- Students and parents should investigate the entrance requirements of post-secondary institutions so that you register for the required subjects. Please note that graduation from High School does not necessarily qualify a student to enter university or other institutions. Specified prerequisites, both in courses and in standards (marks) may be required.
- Grade 12 students apply to post-secondary institutions throughout the year, but mostly at the end of the first semester. Please note that some Grade 11 marks are used by universities in conjunction with the Grade 12 marks to determine an admission average to award scholarships. Students in Grade 11 may apply to Nova Scotia Community College but acceptance is conditional on graduating from High School.
- The course selection process will take place with a School Counsellor in February and March.

TYPES OF HIGH SCHOOL CREDITS

Academic - Academic courses are designed for students who plan to attend college, university, or other post-secondary institutions.

NOTE: Students applying to university usually need 5 academic grade 12 courses (including English 12)

Graduation – Graduation courses are designed for students who plan to proceed directly to employment or selected areas of post-secondary study. Please check with your School Counsellor for information regarding post-secondary programs that recognize these courses.

Open - Open courses, although **not** designed to meet the specific entrance requirements of post-secondary institutions, may be recognized by some institutions. Please check with your School Counsellor.

GRADE 10 COURSE SELECTIONS

BFEC offers limited grade 10 credits. Not all grade 10 classes will be offered every year.

Students entering Grade 10 should have the following courses:

- English 10
- Math 10 Essentials or Math 10 At Work or Math 10 (As recommended by their grade 9 teacher)
- Science 10 or Biology 11
- Physically Active Living 11, Yoga 11, PHE 10, PHE 11
- Visual Art 10

NOTE: Students can have a MAXIMUM of seven (7) grade 10 credits.

GRADE 11 COURSE SELECTIONS

GRADE 11 STUDENTS SHOULD SELECT IN THE FOLLOWING ORDER:

A. NECESSARY COURSES FROM GRADE 10 (IF ANY WERE FAILED OR NOT TAKEN) IF THEY ARE BEING OFFERED AT BFEC.

B. CORE COURSES (Grade 11 level unless indicated)

- ✓ Required: English 11 or English Communications 11
- ✓ Required: Math Essentials 11, Math 11 at Work, Mathematics 11 Academic
- ✓ Required: African Canadian Studies 11, Mi'kmaw Studies 11 or Contemporary Canadian Studies 11
- ✓ Required: Science credit 2
- ✓ Required Physical Education and/or Fine Art credit(s) if needed

C. ELECTIVE COURSES: Students may choose from all available Grade 11 Courses and from allowable Grade 12 courses, if all necessary prerequisites are met.

GRADE 12 COURSE SELECTIONS

- **Students planning to apply to post-secondary institutions are responsible for checking the suitability of their program with those institutions directly; however, assistance may be obtained from the School Counselors**
- Students who are potential graduates are classified as grade 12 students.

GRADE 12 STUDENTS SHOULD SELECT IN THE FOLLOWING ORDER:

A. NECESSARY COURSES FROM GRADE 10/11 (IF ANY WERE FAILED OR NOT TAKEN)

B. CORE COURSES (Grade 12 level unless indicated)

- ✓ Required: English 12 or English Communications 12
- ✓ Required: Global Geography 12 or Global History 12 or Global Politics 12
- ✓ Required: Tech/Math/Science credit

Note: A minimum of five (5) grade 12 credits are needed to meet graduation requirements.

C. ELECTIVE COURSES: Students may choose from all available Grade 11 Courses and Grade 12 courses, if all necessary prerequisites are met.

ACADEMIC AND CAREER PATHWAYS

It is also important to note that each post-secondary institution (university, community college, etc.) and their corresponding programs have their own unique admission requirements; therefore, it is imperative that students research these requirements and keep up to date of any changes, so they are not disappointed.

Students are asked to contact the post-secondary institutions directly or contact their school counselor for assistance. Please note that during registration, counselors attempt to meet with every student to discuss post-secondary planning.

It is important to note that many careers/programs have multiple entry points and that following one pathway in no way will exclude others. For the many students who are unsure what they want to do in the future or even if they are sure, they should feel comfortable experimenting in different types of courses. Hopefully this will make future selection easier and more meaningful. Students are also reminded to make sure they fulfill their graduation requirements.

Post-Secondary Options

Note: The following shares general information about minimum entrance requirements for most post-secondary programs. **Different post-secondary institutions have different prerequisites and should be carefully investigated.** In addition, most university programs have minimum grade average requirements. Also, many post-secondary programs do not have a Mathematics prerequisite and, therefore, graduation-level Mathematics credits will satisfy admissions requirements.

Nova Scotia Community College

- <http://www.nsc.ca/>
- Although some programs (LPN, engineering programs, etc.) have specific course requirements, many programs require a High School Graduation Diploma or equivalent (GED).

Private/ Career College Programs

- Generally require a High School Graduation Diploma or equivalent (GED).
- <http://www.maritimebusinesscollege.ca/>
- <http://www.hairdesigncentre.com/>
- <https://www.nsapprenticeship.ca/get-started/trades>
- <http://www.successcollege.ca/>
- <http://collegeofmassage.com/halifax/>
- <http://eastcollege.ca/halifax>

University Programs

Bachelor of Arts: English 12 + 4 other academic courses

Bachelor of Science: English 12, Pre-Calculus Math, 2 Sciences + 1 other academic course

Bachelor of Nursing: English 12, Math 12, Chemistry, Biology + 1 other academic course

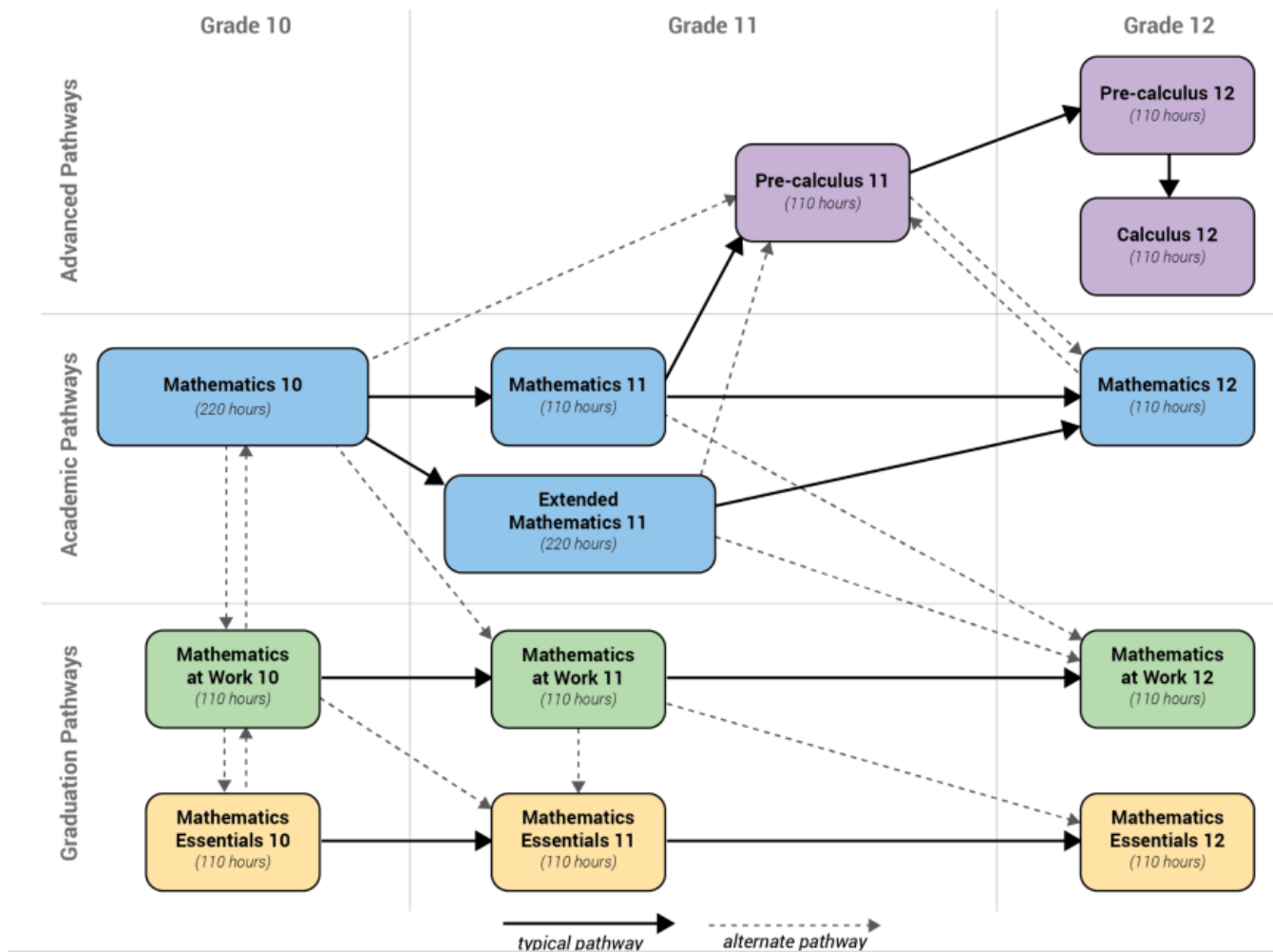
Bachelor of Commerce: English 12, Math 12 (in some cases Pre-Calculus) + 3 other academic courses

Nova Scotia universities and the Nova Scotia Community College have recently launched a website that allows students to get information on any of these Nova Scotia schools. Check out <http://mynsfuture.ca/> for more information.

HIGH SCHOOL MATHEMATICS STREAMS:

The Nova Scotia mathematics curriculum provides students the knowledge, skills, and understandings for post-secondary programs or direct entry into the workforce. High school mathematics courses are organized into four pathways: Academic, Pre-calculus, Mathematics at Work and Mathematics Essentials with each pathway being organized to provide specific mathematical contexts, concepts and skills. When choosing a pathway, students should choose a pathway that best fits their interests and plans after high school. For students entering Grade 10, Mathematics 10 provides the most flexibility for future courses. This would be a good choice for students unsure of their post-secondary plans. Students, parents, and educators are encouraged to research the admission requirements for postsecondary programs of study as they vary by institution and by year.

Senior High Mathematics Course Pathways (Effective 2021)



There are four main pathways for mathematics in Nova Scotia:

- 1. Academic pathway (academic credit type):** Courses in this pathway prepare students to enter post-secondary academic programs that do not require pre-calculus for admission. Courses: Mathematics 10, Mathematics 11 (or Extended Mathematics 11) and Mathematics 12
- 2. Pre-calculus pathway (advanced credit type):** Courses in this pathway prepare students to enter post-secondary academic programs that require pre-calculus for admission. This pathway branches off of the academic pathway. Courses: Pre-calculus 11 and Pre-calculus 12, Calculus 12 Math Pathways (December 2025)
- 3. Mathematics at Work pathway (graduation credit type):** Courses in this pathway prepare students to enter post-secondary programs that do not require academic mathematics (options at both community college and university) or who plan to enter the workforce directly after high school. Courses: Mathematics at Work 10, Mathematics at Work 11, and Mathematics at Work 12
- 4. Mathematics Essentials pathway (graduation credit type):** Courses in this pathway are designed for students who intend to enter the workforce directly after graduation or do not plan to pursue post-secondary programs that require mathematics. Courses: Mathematics Essentials 10, Mathematics Essentials 11, and Mathematics Essentials 12

COURSE DESCRIPTIONS

ENGLISH LANGUAGE ARTS

English Language courses are designed to help students achieve the Public Schools Programs general and specific curriculum outcomes. These outcomes are organized under the headings of: ***Speaking and Listening, Reading and Viewing, Writing and Representing***. All of these language processes are interrelated, and teachers employ various learning and assessment strategies which address numerous outcomes at one time.

ENGLISH 10

Academic 1.0 Credit.

Students are required to demonstrate an awareness of the social implications of language and communication and of the role of the literary world. The focus of experiences builds confidence as language users. It moves students toward an informed awareness of their roles and responsibilities as thinkers, speakers, listeners, readers, viewers, and creators of media texts. It involves exploration and examination of issues in their worlds and how they connect to others. Increased emphasis is on oral communication, both formal and informal. Students will role-play, select text/form to represent ideas and information. They will become aware of concepts related to awareness of audience, purpose, and situation. Students will discover how texts operate and how meanings are constructed. The texts are unique and divergent. These will include editorials, notices, public letters, business letters, biographies, articles, journals, reports, essays and research papers. Students will read poetry, short stories, novels, mythology, and plays. They will be involved in collaborative learning involving small group workshops, panels, debates, seminars, reports, interviews, and discussions.

ENGLISH COMMUNICATIONS 11

Graduation 1.0 Credit

The focus of experiences will be based on personal response to engaging and stimulating texts. They will explore and investigate social, political, ethical, and economic issues. Increased emphasis will be on writing. Non-narrative forms of practical writing used in student, family, service organizations, political organizations, and business communities will be examined. Students will write reports in various forms for different purposes. Students will be conversant in letter writing (application, request, and "to the editor", and persuasive). Oral communications in the world of work are highly emphasized, especially interviews.

ENGLISH 11

Academic 1.0 Credit

Students are required to examine and evaluate ideas and style in materials studied and in their own work. The Focus of Experiences will be based on using language in wider, public, and more formal contexts; allowing for a more critical examination of meaning; moving towards greater objectivity in students' own style and an improved ability to engage in abstract ideas and complex issues, as well as social, political, ethical, and cultural issues in the wider community. Increased Emphasis is on writing and other ways of representing; expanding and controlling language; skill building in and through drama; exploring information, media, and visual literacy; and constructing meaning in graphic communication and desktop publishing. The texts emphasize a variety of articles, essays, short stories, poetry and plays; songs, film, video; docudrama, newscasts; radio, television, and live drama; and multimedia texts.

ENGLISH COMMUNICATIONS 12

Graduation 1.0 Credit

Emphasis will be on consolidation of the essential communication skills, with continuing attention to effective use of oral and written language for relatively limited and specific purposes. Students' present achievement levels and future career goals will influence the choice of many practical activities to develop increased ability and confidence in language use. Oral communication forms an important strand of this course and should be given particular attention as it relates to students' present and future language needs. Literary genres will be given some degree of attention, but the focus throughout this sequence will be on the effective use of language in everyday life situations for specifically defined social and occupational purposes.

ENGLISH 12: African Heritage

Academic 1.0 Credit

Students will engage in experiencing and examining various literary texts with a major focus on African Heritage, including short fiction, the novel, poetry, spoken word and various elements of African oral traditions. This course provides a particular focus on writers and artists of African descent and their contributions. The writers and artists and their works, the history and culture depicted in and reflected by their works, and the ideas and values inherent therein can all contribute to the intellectual growth of our students and to their appreciation of African Heritage.

ENGLISH 12

Academic 1.0 Credit

Students are required to apply a wide variety of forms (media, genres) to various communicative situations and to demonstrate knowledge of influences on language in literary forms. The Focus of Experiences will be based on using language in public, formal, and global contexts. Students will deal effectively with different communication situations including those addressing unfamiliar audiences. They will apply communication and stylistic skills to a variety of forms. Increased Emphasis is on crafting written language in a range of forms, polishing stylistic skills and writing with conviction. They will critically examine literary texts and cultural contexts of works and their creators. They will write reflectively, critically, and analytically about the ideas, values, and social effects of their own and other texts. The Integrative Concepts include the individual in a global community and the human predicament.

MATHEMATICS

Students need to complete a **minimum** of 3 mathematics courses at different grade levels to graduate from high school in Nova Scotia. Students need to complete a minimum of 1 mathematics course at the grade 11 or 12 level to graduate with an adult high school diploma. Post-secondary institutions (universities, colleges, professional and private institutions) have different minimum requirements for entrance to their programs and requirements for the same program may vary in different institutions.

MATHEMATICS 10

Academic 2.0 credits

Mathematics 10 is an academic credit type high school mathematics course. Upon successful completion students will receive 2 academic credits; one in Mathematics 10 and another in math, science or technology. It is recommended that students proceed to Mathematics 11 or Mathematics Extended 11 upon completion of Mathematics 10. In some cases students may choose a course other than Mathematics 11 or Extended Mathematics 11. Students should make this decision following discussions with their family and school staff. Students in Mathematics 10 will explore the following topics: measurement systems, surface area and volume, right triangle trigonometry, exponents and radicals, polynomials, linear relations and functions, linear equations and graphs, solving systems of equations, and financial mathematics.

MATHEMATICS AT WORK 10

Graduation 1.0 credit

Mathematics at Work 10 is a graduation credit type high school mathematics course. It is recommended that students proceed to Mathematics at Work 11 upon completion of Mathematics at Work 10. In some cases students may choose a course other than Mathematics at Work 11. Students should make this decision following discussions with their family and school staff. Students in Mathematics at Work 10 will explore the following topics: measurement systems, surface area, Pythagorean theorem, right triangle trigonometry, similar polygons, angles, perpendicular and parallel lines, unit pricing, currency exchange, income, and basic algebra.

MATHEMATICS ESSENTIALS 10

Graduation 1.0 credit

Mathematics Essentials 10 is an introductory, graduation credit type high school mathematics course designed for students who do not intend to pursue post-secondary studies that require study in mathematics. It is recommended that students proceed to Mathematics Essentials 11 upon completion of Mathematics Essentials 10. In some cases students may choose a course other than Mathematics Essentials 11. Students should make this decision following discussions with their family and school staff. Students in Mathematics Essentials 10 will explore the following topics: Mental math, working and earning, deductions and expenses, paying taxes, making purchases, buying decisions, probability, measuring and estimating, transformation and design, and buying a car.

MATHEMATICS 11

Academic 1.0 credits

Mathematics 11 is an academic credit type high school mathematics course. It is recommended that students have successfully completed Mathematics 10 prior to enrolling in this course. Upon completion of Mathematics 11 it is recommended that students proceed to Mathematics 12 or Pre-calculus 11. In some cases students may choose a course other than Mathematics 12 or Precalculus 11. Students should make this decision following discussions with their family and school staff. Students in Mathematics 11 will explore the following topics: inductive and deductive reasoning, an introduction to proof, cosine law, sine law, statistics, systems of linear inequalities, and quadratic functions

MATHEMATICS AT WORK 11

Graduation 1.0 credit

Mathematics at Work 11 is a graduation credit type high school mathematics course. It is recommended that students have successfully completed Mathematics at Work 10 prior to enrolling in this course. Upon completion of Mathematics at Work 11 it is recommended that students proceed to Mathematics at Work 12. In some cases students may choose a course other than Mathematics at Work 12. Students should make this decision following discussions with their family and school staff. Students in Mathematics at Work 11 will explore the following topics: measurement systems, surface area, volume, 2-D and 3-D geometry, scale, numerical reasoning, personal budgets, compound interest, financial institution services, data management, and formula manipulation for various contexts.

MATHEMATICS ESSENTIALS 11

Graduation 1.0 credit

Mathematics Essentials 11 is a graduation credit type high school mathematics course designed for students who do not intend to pursue post-secondary studies that require study in mathematics. It is recommended that students have successfully completed Mathematics Essentials 10 prior to enrolling in this course. Upon completion of Mathematics Essentials 11 it is recommended that students proceed to Mathematics Essentials 12. In some cases students may choose a course other than Mathematics Essentials 12. Students should make this decision following discussions with their family and school staff. Students in Mathematics Essentials 11 will explore the following topics: mental mathematics, data management, borrowing money, renting or buying, household budgets, investing money, measurement, 2-D and 3-D design, mathematics in content areas such as science and social studies

MATHEMATICS 12

Academic 1.0 credit

Mathematics 12 is an academic credit type high school mathematics course. It is recommended that students have successfully completed Mathematics 11 or Extended Mathematics 11 prior to enrolling in this course. Students in Mathematics 12 will explore the following topics: borrowing money, investing money, set theory, logical reasoning, counting methods, probability, polynomial functions, exponential functions, logarithmic functions, and sinusoidal functions.

MATHEMATICS AT WORK 12

Graduation 1.0 credit

Mathematics at Work 12 is a graduation credit type level high school mathematics course. It is recommended that students have successfully completed Mathematics at Work 11 prior to enrolling in this course. Students in Mathematics at Work 12 will explore the following topics: probability, measures of central tendency, scatterplots, linear relationships, owning and operating a vehicle, properties of polygons, transformations, trigonometry.

MATHEMATICS ESSENTIALS 12

Graduation 1.0 credit

Mathematics Essentials 12 is a graduation credit type level high school mathematics course designed for students who do not intend to pursue post-secondary studies that require study in mathematics. It is recommended that students have successfully completed Mathematics Essentials 11 prior to enrolling in this course. Students in Mathematics Essentials 12 will explore the following topics: measurement, ratio, rate, proportion, mathematics and career exploration, mathematics preparation for the workplace

SCIENCES

BIOLOGY 11

Academic 1.0 Credit

This course qualifies as a “first science” credit.

The objective of Biology 11 is to introduce students to the diversity of life and to better understand the intricate balance that exists between the biotic (animals, plants and microorganisms) and abiotic (water, air and soil) components of the Earth's Biomes. The course is designed to explore the world on a microscopic level and to experience a variety of labs and activities that reinforce the topics of diversity, microscopy, ecology, human organ systems, photosynthesis and respiration. Students will develop lab skills to effectively use microscopes, use and prepare slides, study microbiology, and explore the diversity of animal structure and function through dissections.

CHEMISTRY 11

Academic 1.0 Credit

This course qualifies as a “first science” credit.

Chemistry 11 is designed to introduce students to the fundamental concepts in Chemistry, including atoms and molecules, chemical reactions and organic compounds. Students will begin with a review of the development of atomic theory, become fluent with the use of the periodic table and be able to describe the different types of bonding. With the basics of modern Chemistry mastered, they will progress to specific chemical reactions, developing chemical formulas, balancing reactions and predicting reaction yield. Finally, an in-depth discussion on organic Chemistry will introduce the student to the different families of organic compounds, reactions that may occur with these compounds and naming rules.

OCEANS 11

Academic 1.0 Credit

Oceans 11 offers students the opportunity to explore aspects of local and global oceanography and current ocean-related issues. The course is designed to be flexible and meet the needs and interests of Nova Scotian students by connecting the study of oceanography with local economic and community interests. Topics include: structure and motion, marine biome, coastal zones, aquaculture, and fisheries.

BIOLOGY 12

Academic 1.0 Credit

Suggested Prerequisite: BIO 11

The Biology 12 program is based on four units of study. The principle emphasis is on macromolecular biochemistry, change, diversity, homeostasis, evolution and systems. The course consists of the following units of study: homeostasis, reproduction and development, genetics and evolution.

CHEMISTRY 12

Academic 1.0 Credit Prerequisites: Chemistry 11

Chemistry 12 is a course that continues to introduce the fundamentals of Chemistry, including its relevance to technology and society. Certain components of this course requires that the student possess a good foundation of knowledge from Chemistry 11 as well as strong Mathematics skills. Topics include: Thermochemistry, Solutions, Kinetics, Equilibrium, Acids and Bases, and Electrochemistry.

FOOD SCIENCE 12

Academic 1.0 Credit

Discover how scientists develop new foods, test for food safety, nutrient values of food, food borne illnesses, and careers in food science, The following topics will be discussed in this class: The Food Scientist, Development of New Foods; Food, Science and Society; Chemistry of Food Science; Microbiology of Foods; and Food Processing. This course includes practical lab activities in the kitchen.

NETUKULIMK 12

Academic 1.0 Credit

Netukulimk 12 explores environmental science concepts through the guiding principle of Etuaptmumk (Two-Eyed Seeing). Etuaptmumk refers to learning with the strengths of both the Mi'kmaq and western knowledge systems for the benefit of all. Through Wskitqamu guided learning, learners will gain an appreciation of interconnectedness as they question the world around them, make observations, gather information, and reflect on decisions and actions.

SOCIAL STUDIES

AFRICAN CANADIAN STUDIES 11

Academic 1.0 Credit

Students will learn to view history from a different perspective and in many cases, be exposed to ideas and concepts not previously considered. This course examines the tragedies and triumphs that particularly involve or affect people of African descent.

Students will explore how people of African ancestry came to Canada and contributed to its development as a nation. This is history as most students have never experienced it before. The major themes of the course are: Evolution and Change, Elements of the African Diaspora, Impact of Colonial Expansion, the Struggle for Identity, Independent Study, Pursuit of Justice and the Journey Toward Empowerment. Students will learn how the culture and contributions of people of African descent are important components of Nova Scotian and Canadian history.

CONTEMPORARY CANADIAN STUDIES 11

Academic 1.0 Credit

Canadian Studies 11 offers an in-depth examination of Canada's complex social, governance, and environmental issues. Examining 1945-present, the course provides students with opportunities to explore our country's cultural, political, and historical landscapes. By fostering competencies in critical thinking, communication, and citizenship, this course prepares students to actively engage with and critically assess contemporary Canadian and global issues, encouraging a deeper understanding of the complexities within Canadian society and its place in the wider world.

MI'KMAQ STUDIES 11

Academic 1.0 Credit

Mi'kmaw Studies 11 is a course that serves not only to highlight the Mi'kmaw experience, but also to provide opportunities for learners to gain an understanding of how they are connected to the history and culture of the First Peoples of the Maritimes. The course incorporates an inquiry-based approach and examines broad concepts such as governance, culture, justice, spirituality, and education. Students will analyse historical and contemporary Mi'kmaw issues, which enables them to achieve a greater understanding of, and respect for, both Mi'kmaw society and Mi'kmaw contributions to Canadian society.

GLOBAL GEOGRAPHY 12

Academic 1.0 Credit

The world can be viewed as a global village in which the world's people and their environment interact. This course will examine current issues and events based on the reality of the world we live in today. Students learn to view global issues from a geographical perspective and will aim to understand how the world arrived at its current state at the close of the 20th century. The course is based on five units of study: Skills of Geography, Planet Earth, Population, Resources and Commodities and Urbanization. This course meets the grade twelve global studies requirement.

GLOBAL HISTORY 12

Academic 1.0 Credit

This course examines major themes in the history of the 20th century, post-World War II. By examining these themes, students will aim to understand how the world arrived at its current state at the end of the 20th century. This course is based on five units of study: The Global Historian (learning the skills and methods appropriate to the discipline of history), the Dynamics of Geo-Political Power, the Challenge of Economic Disparity, the Pursuit of Justice and Societal Change. This course meets the grade twelve global studies requirement.

GLOBAL POLITICS 12

Academic 1.0 Credit

This course examines national and international political issues from a variety of perspectives. Students will learn about the rights and responsibilities of individuals, groups, and countries within the international community; analyze the different ways in which Canada tries to settle its conflicts with other nations; and evaluate the role of nationalist and internationalist ideologies in shaping relations among countries. Topics covered include: The Nature of Politics, Canadian System, Comparative Politics, Decision Making and Participation, The Politics of Internationalism, The Global Community.

GLOBAL SUSTAINABLE SOLUTIONS 12

Academic 1.0 Credit

Global Sustainable Solutions 12 provides opportunities for learners to engage in contemporary, real-world issues through the lens of geography. This course supports learners in considering sustainable solutions for people and the planet, now and into the future.

LAW 12

Academic 1.0 Credit

The law course is designed to provide students with knowledge of law and its function in society. Students will attain the skills and attitudes that will enable students to understand the process of law. Topics include: The Canadian Charter of Rights, the Canadian legal system, crimes and crime control, injuries and wrongs, human rights, property rights, promises and agreements, business relations, family relations, courts and trials.

PSYCHOLOGY 12

Academic 1.0 Credit

Psychology 12 will provide students with a systematic and scientific approach to the study of human behavior and mental processes. Students will explore various aspects of human behavior including biological bases of behavior, theories of personality, and aspects of thought processes, states of consciousness, motivation and emotion, and the basic areas of mental illness. This course is intended to introduce students to basic psychological concepts and help them prepare for future studies in psychology at the post-secondary level.

SOCIOLOGY 12

Academic/Open 1.0 Credit

We can only grow as individuals if we understand more about ourselves. This course will allow us to understand the motives and reasons for approaching life as we do, in this society and in others. This course is designed to give an understanding of the basic aspects of sociology, to allow for in-depth studies in Canadian sociological issues, and to allow for active participation of the students in a local community-sociological project. Canadian sociological issues which might be considered are the family, students and schools, poverty, minority groups, women in society, labor and management, conflict, crime in Canada, punishment and rehabilitation, and the future.

FINE ARTS

DRAMA 11

Academic 1.0 Credit

This course focuses on the students' personal development. Beginning with foundation experiences to develop student confidence and capability, the course allows students to explore movement and speech and to combine these in a greater range of dramatic forms. Selected dramatic forms are explored in depth for presentation.

VISUAL ARTS 11

Academic 1.0 Credit

Recommended prerequisite: VISART10 or equivalent proficiency

This course focuses on building technical skills and broadening knowledge of art processes and art history. Students will strengthen their abilities in painting, mixed media, drawing, and be introduced to conceptual artwork and artists. It is strongly recommended that students complete Grade 10 Visual Arts prior to taking this course.

DRAMA 12 THEATRE ARTS

Academic 1.0 Credit

Recommended prerequisite: DRAMA11 or equivalent proficiency

Drama 12 builds on the learning experiences provided in Drama 11 and focuses on script and play production. Students will have opportunities to explore script in greater depth and from varied perspectives – that of the actor, the director, the stage manager and the designer of set, lights and sound.

VISUAL ARTS 12

Academic 1.0 Credit

Recommended prerequisite: VISART11 or equivalent proficiency

The core components will include drawing and painting (acrylic and watercolor), printmaking, sculpture, and mixed media. Art history will be integrated throughout the projects. This course is an extension of materials covered in Art 11. Students will be expected to assemble a portfolio of work and to select one area of interest (from the core components) for an in-depth study. This course will be of benefit to students who plan to attend an Art College or who plan to study Fine Arts at a University level.

TECHNOLOGY AND BUSINESS

ACCOUNTING 11

Open 1.0 Credit

Note: Meets Elective requirement/offered through NSVS (Nova Scotia Virtual School)

Topics covered in the introductory course: the accounting equation, business transactions, journalizing and posting, the processing of cash receipts and payments, financial statements, and the complete accounting cycle for merchandising firms. Aims of the courses are; develop in students an understanding of accounting principles and concepts encountered in business and personal activities; provide a sound foundation for additional study; help students become acquainted with the principles, applications, and importance of data processing in accounting procedures.

COMMUNICATIONS TECHNOLOGY 11

Academic 1.0 Credit Note: Meets Technology or Elective requirement

Communications 11 is an academic credit that involves using a hands-on, minds-on approach to electronic, print and web communication. Students will be provided with hands-on activities at the beginner and intermediate level in a broad range of technological concepts in areas such as digital photography, web publishing, and technical design. This course is accessible for students at all levels of computer competence.

DESIGN 11

Academic 1.0 Credit Note: Meets Technology or Elective requirement

Design 11 involves students in using communications and information technologies to develop solutions to design problems and to conduct inquiries into design issues. Students work independently and as part of design teams to explore design in a range of practical contexts. Modules for this course include the following: Design Fundamentals; communication Design; The Built Environment; Product Design; and Design Team or Independent Project

ELECTROTECHNOLOGIES 11

Academic 1.0 Credit Note: Meets Technology or Elective requirement

Electrotechnologies 11 enables students to gain an understanding of electrical and electronic systems and subsystems. Students will explore a broad range of technology applications, in a hands-on setting, for example, electric motors, appliances, audio and video devices, sensors, control devices, security systems, and control systems. Modules for this course include electro-assemblies, power distribution and conversion, control systems, digital technology and design team or independent project.

PRODUCTION TECHNOLOGY 11

Open 1.0 Credit Note: Meets Technology or Elective requirement

This course is designed to develop a knowledge and understanding of production technology at an introductory level. Utilizing custom and mass production methods students will learn basic procedures associated with the manufacturing industry, i.e. material handling; composite materials; finishing technology; the plastics industry; ergonomics; time management; elements of good design; problem solving; CADD computer aided design and drafting; manufacturing safety.

BUSINESS MANAGEMENT 12

Academic 1.0 Credit Note: Elective requirement

This course focuses on the business environment from a management perspective. Students benefit from understanding the manager's many roles and responsibilities, by studying the manager's role in different companies and business issues. Students develop both business skills and numerous transferable skills such as flexibility, positive attitudes, strong communication, problem-solving, and decision-making. Students also have an opportunity to apply skills and knowledge to personal, educational, and career aspects of their lives. This course allows students to take ownership of their learning through appreciation of the value of management skills and characteristics as determinants of success in all careers

COMMUNICATIONS TECHNOLOGY 12

Academic 1.0 Credit Note: Meets Technology or Elective requirement

Communications 12 is an academic credit that involves using a hands-on, minds-on approach to electronic, print and web communication. Students will be provided with hands-on activities at the intermediate and advanced level in a broad range of technological concepts in areas such as digital photography, web publishing and technical design. By the end of the course, students are able to demonstrate a number of skills, such as the ability to use a range of technological tools, abilities in applying technological skills to other areas, and experience in solving technological problems. Although not necessary, it is recommended that students have successfully completed CMT 11 prior to taking CMT 12.

CONSTRUCTION TECHNOLOGY 12

Academic 1.0 Credit Note: Meets Technology or Elective requirement

The construction technology course helps develop in students an understanding of construction technology, its applications related to the residential construction industry, the organization of construction, and of construction's impacts on society and the environment. The course offers a broad range of opportunities for students to experience hands-on learning activities including safety training, residential framing, site preparation, electrical systems, plumbing, energy efficiency and career pathway exploration.

FILM AND VIDEO PRODUCTION 12

Academic 1.0 Credit Note: Meets Technology or Elective requirement

This course involves students in the production of a film or video. Students work independently and as part of a production team to explore roles in the film industry, develop the skills required in production roles, develop a critical awareness of historical and cultural aspects of film, and work through the process of producing a film or video from script development to final edit. Modules for this course include Fundamentals, Production Team Skills, Film Industry Disciplines and Careers, and Film Development and Production.

MULTIMEDIA 12

Academic 1.0 Credit Note: Meets Technology or Elective requirement

Students use a range of information and communications technology, as well as traditional image making materials in a series of individual and collaborative projects. Students acquire an understanding of aesthetic/artistic implications of multimedia products, become aware of and respect ethical/social and legal implications of multimedia products, and apply the elements and principles of art and design to construct multimedia products which efficiently and effectively communicate ideas and concepts. Modules focus on image creation and manipulation, time based images, sound and multimedia authoring. Programs used in this course include Photoshop, Fireworks and Flash.

PRODUCTION TECHNOLOGY 12

Open 1.0 Credit

Note: Meets Technology or Elective requirement

This course is designed to develop a knowledge and understanding of production technology by studying such units as production and humans, resources for production, manufacturing, product analysis, construction production, computers and manufacturing, and future production and careers. Students will be involved in a variety of learning activities including problem solving, papers, presentations and field trips. The main focus of the course will be the establishment of a mock co-operative enterprise where students will design, produce, and sell the product(s).

PERSONAL DEVELOPMENT / FAMILY STUDIES

CHILD STUDIES 11

Open

1.0 Credit

Child Studies 11 is a one semester course designed to help students explore the meaning and implications of responsible parenthood; to help them acquire current information regarding reproduction, pregnancy, and childbirth; to help them explore significant issues of early childhood; and to help them apply the understanding of child development to the care and school of children. The course is developed around five modules: Decisions about Parenthood (the decision to become a parent, parenthood alternatives); The Beginning of Parenthood (human reproduction, pregnancy, childbirth, the newborn); Early Childhood Development (the infant, the toddler, the preschooler, the school-age child); Special Concerns in Child Development (day care, children with special needs, children in crisis, support services, occupational opportunities with children); Practical Experiences with Children (an in-school or out-of-school practicum).

LEARNING STRATEGIES 11

Open

1.0 Credit

Learning Strategies 11 is a grade 11 open credit and continues to build on the learning outcomes attained through Learning Strategies 10. This course is for students who have successfully completed Learning Strategies 10 and who have been identified through the program planning process. An examination of post-secondary goals is a major component of this course and the lessons will build on the skills identified in Learning Strategies 10 as those necessary for the successful transition to work or studies beyond high school. As in Learning Strategies 10, assistive technology will be a key component of support for students.

LIFE 11

Open

1.0 Credit

This course explores the evolving process of identity formation during adolescence, focusing on personal interests, strengths, values, and the influences of family, community, and culture. Learners will reflect on how their identity shapes career interests and decisions, while analyzing the role of personal strengths in professional pathways. The course also addresses how life transitions and uncertainties can impact mental health, encouraging students to build resilience through supportive relationships and community resources. Through critical thinking and reflection, students will develop strategies to navigate change effectively. By the end, learners will gain a deeper understanding of their identity and practical tools to manage life's challenges.

CANADIAN FAMILIES 12

Open

1.0 Credit

Note: offered through NSVS (Nova Scotia Virtual School)

Canadian Families 12 is designed to develop an understanding of the nature of families in historical, social, and cultural contexts; to promote awareness of the role played by economics, work, and shelter in maintaining successful families; and to examine the physical, social, and emotional dimensions of family health in adopting a preventive approach to family well-being. This course is developed around three modules:

- Images of Families (historical perspective, families today, family law, families of the future)
- Family Development (relationships, family arrangements, parenting, families in later life, death as a process)
- Family Well-Being (family health, family economics, family and work, family shelter)

CO-OPERATIVE EDUCATION 12

Open

1.0 Credit

Cooperative Education 12 is a career-orientated instructional course designed to integrate classroom theory with practical experiences in the workplace. It is a mode of experiential learning that combines the coordinated resources of the school and the community. Partnerships with the community are established so that the student may participate in a work placement related to their career interest. Co-op enables the student to explore a career area, gain valuable experience and earn credit.

FOOD STUDIES AND HOSPITALITY 12

Open 1.0 Credit

This introductory curriculum is designed to explore food studies through a hospitality perspective. Students will have the opportunity to learn about basic food preparation skills both for personal development and for entry-level employment possibilities. Professional food presentation and services are also explored. Students will have the opportunity to research careers in the culinary fields. There is a laboratory component to this course. Topics studied include: food/kitchen safety, kitchen literacy/numeracy, professional kitchen organization, food and beverage service skills, fundamentals of cooking and menu planning.

HEALTH AND HUMAN SERVICES 12

Academic/Open 1.0 Credit

This is an introductory course of interest to those who are considering post-secondary education or employment in health services or human services including psychology, social work, continuing care, nursing, addictions counseling, youth worker, corrections, law enforcement, educational support, and gerontology, recreation, and leisure studies. This course provides students with skills and knowledge in human development, ethics, the helping process, interpersonal and personal development, wellness, written and verbal communications, and computer applications. Students will explore skills and knowledge specific to defined occupations. Group work, case studies, community projects and agency interaction are some of the learning strategies used to ensure practical application of the theory studied. Community –based education is encouraged in order to enhance the knowledge and skills developed in the classroom.

HOUSING AND DESIGN 12

Academic 1.0 Credit Note: Meets Technology or Elective requirement

Housing and Design 12 will be taught through project-based learning and community connections. This course is designed to be practical and interactive. Assessment will include project work through which students will demonstrate their use of technology to problem solve and create a housing project. Throughout the curriculum, students will be expected to develop their knowledge of related career opportunities and artistic expression through housing applications. Topics studies include: housing and design skills portfolio, related careers, living spaces, innovations in housing ecosystems, components of housing design and layout and interior design.

LEARNING STRATEGIES 12

Open 1.0 Credit Note: Meets Elective requirement

Learning Strategies 12 is a grade 12 open credit course and is designed for those students who have successfully completed Learning strategies 10 and 11 who have been identified through the program planning process. While Learning Strategies 12 will build on the grade 10 and 11 curriculum, it will have as its primary focus transition from high school. The student will be expected to demonstrate that they are a successful independent learner.

TOURISM 12

Academic 1.0 Credit Note: Meets Elective requirement

Tourism 12 builds on the introduction to the tourism industry presented in Tourism 11 as it explores the components, issues, structures, and trends within the tourism industry. Students will examine modes of travel, accommodation, economic impact, and regulation of the industry. At the same time, students will have opportunities to explore career options in tourism and ways they can develop essential skills required in tourism workplaces that will serve them as well in other careers.

PHYSICAL EDUCATION

PHYSICALLY ACTIVE LIVING 11

Open 1.0 Credit

This course is designed to engage students in a wide range of physically active experiences, with an overall theme of exploring options and opportunities for being active for life, both in school and in their community. PAL11 encompasses both an activity component and a theory component, an emphasis on engagement in physical activity. The activity component of the course is designed to provide opportunities for students in active experiences that engage youth in traditional and non-traditional forms of physical activity. The theory component of the course will enhance understanding of healthy eating, injury prevention, mental and emotional health, and addiction prevention highlighting the connection between healthy living and being physically active.

PHYSICAL EDUCATION 11

Open 1.0 Credit

This course will offer an emphasis on skill acquisition and advanced techniques for participating in the following activities: tennis, outdoor education, volleyball, squash, low-organized games, badminton, fitness, downhill and cross-country skiing, track and field, racquetball and rugby. The theory aspects of the course will be evaluated by tests, and assignments. Skill acquisition and class participation will account for the remainder of the evaluation.

PHYSICAL EDUCATION 12

Open 1.0 Credit

This course is designed for students who show an interest in coaching, refereeing, teaching or becoming involved in community recreation. Emphasis will be placed on developing students' leadership qualities and capabilities. There may be a major theory component of this course and therefore students must expect to spend considerable time in the classroom as well as the gymnasium. The course will focus on outdoor and indoor individual, dual, and team recreational activities.

YOGA 11

Open 1.0 Credit

Yoga 11 will introduce students to various styles and characteristics of yoga. It is an expectation that students will develop a lifelong personal practice of yoga for personal fitness and recreation. Students will be participating in a variety of activities that will include both physical practice and classroom theory. The physical practice of yoga will include learning, developing, and practicing skills that involve strength, flexibility, endurance, balance, poise, regulation of energy, and mental focus, all of which can be applied to other physical activities. Classroom sessions educate students about the relationship between nutrition and fitness, the history and philosophy of yoga including values of non-violence, ethics, honesty and respect in the context of challenging physical activity.

Online Course Options – Nova Scotia Virtual School

Note: courses are taken fully online but taken as one of the students scheduled courses on site at BFEC – scheduled as a course in a scheduled course block.

Full information will also be posted on the Nova Scotia Virtual School website at <http://nsvs.ednet.ns.ca> when it becomes available for the 2018-2019 school year.

If you are interested in taking an online learning course, please advise your school counselor of which one you are interested in and we will make a note to speak to you in May when the NSVS schedule is finalized.