



Inverness Education Centre/Academy
Program of Studies
2021-2022

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SCHOOL'S MISSION

The mission of Inverness Education Centre/Academy is to foster the development of students who will be caring, informed, responsible, and positively contributing citizens.

OVERVIEW

The Inverness Education Centre/Academy Program of Studies is intended to assist students and parents in selecting the appropriate courses for each student entering grades ten, eleven and twelve.

FOREWORD

This handbook is produced for students and parents. It presents the programs and courses offered at Inverness Education Centre/Academy. Students and parents should use the information to plan a high school program that will best serve the student's needs. Additional information can be requested from the School Office. Specific course outcomes can be provided upon request.

EXPECTED COURSE LOAD

All grade 10 and 11 students attending Inverness Education Centre/Academy must be enrolled in eight semestered courses over the academic school year. Students in 12 must enroll in at least seven semestered courses. Final grades in all courses from grades 10, 11 and 12 will appear on the student's high school transcript.

HIGH SCHOOL CREDITS

A credit is awarded in recognition of an approved course that would normally be completed in a minimum of 110 hours of scheduled time. In courses defined through curriculum outcomes statements, students are expected to have demonstrated achievement of the outcomes at an acceptable level of proficiency. Each course is categorized as one of the following credit types:

Advanced – These courses are designed to meet the needs of students who have demonstrated an exceptional degree of academic ability or achievement.

Academic – These courses are designed for students who expect to enter college, university, or other post-secondary institutions.

Graduation – These courses are designed for students who wish to obtain a graduation diploma with plans to proceed to employment or some selected area of post-secondary study.

Open – Although none of these courses is designed to meet the specific entrance requirements of any post-secondary institution, individual courses may meet entrance requirements of some institutions. It is the student's responsibility to check with individual institutions.

CREDIT REQUIREMENTS FOR GRADUATION

All High School students require at least eighteen credits to graduate. No more than seven of the eighteen credits may be from Grade 10 courses, and at least five must be Grade 12 courses. All students must take and pass the following thirteen compulsory credits to be eligible for graduation:

3 Language Arts Credits - One at each grade level (10, 11 and 12)

1 Fine Arts Credit - Dance, Drama, Music, or Visual Arts (at any grade level)

3 Mathematics Credits - One at each grade level (10, 11 and 12)

2 Science Credits - Science 10, Oceans 11, Biology, Chemistry, Geology or Physics

1 Other Science or Technology Credit

1 Physical Education Credit - Eligible credits include Physical Education 10, Physical Education 11, Dance 11, Fitness Leadership 11, Physically Active Living 11, Yoga 11, Physical Education 12, and Physical Education Leadership 12

1 Canadian History Credit - African Canadian Studies 11; Canadian History 11; Gaelic Studies 11; Mi'kmaw Studies 11

1 Global Studies Credit - Global Geography 12, Global History 12 or Global Politics 12

No student may receive two credits for successfully completing/passing the same course twice. There are a few exceptions: these include CO-OP courses and Language Arts with a Canadian Literature course. Also, certain courses in Mathematics or Sciences have required prerequisites. Additional information regarding course prerequisites can be requested from the School Office.

POST-SECONDARY ENTRANCE REQUIREMENTS

General University Entrance Requirements

Different degree programs have specific entrance requirements and students should be aware of the courses they need to complete to enroll in each program of interest. Specific grade averages are required for each university and each individual program. Students should consult the university calendars for complete details.

Bachelor of Arts - English 12 + 4 other academic grade 12 courses

Bachelor of Music - English 12 + 4 other academic grade 12 courses. Students applying to Music are also required to demonstrate proficiency as instrumental or vocal performers in an audition/interview. Basic understanding of music theory may be required.

Bachelor of Commerce/Bachelor of Business Administration - English 12, Mathematics 12 (in some cases Pre-Calculus 12) +3 other academic grade 12 courses

Bachelor of Science - English 12, Pre-Calculus 12, 2 Sciences at the grade 12 level + 1 other academic grade 12 course. Calculus 12 may be recommended.

Bachelor of Engineering - English 12, Pre-Calculus 12, Chemistry 12, Physics 12 + 1 other academic grade 12 course. Recommended courses may include Calculus, Computer Science 12, and Architectural Design 12. Calculus 12 may be required for Science and Engineering outside of Nova Scotia.

Bachelor of Computer Science - English 12, Pre-Calculus 12 + 3 other academic grade 12 courses. Recommended courses may include Calculus 12 and Computer Science 12.

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

Bachelor of Health Sciences (Diagnostic Cytology, Medical Ultrasound, Nuclear Medicine Technology, Radiological Technology, and Respiratory Therapy) - English 12, Math 12, and other science requirements as listed on the university website.

Nova Scotia Community College (NSCC) Entrance Requirements

Admission to a core program of the Nova Scotia Community College (NSCC) usually requires high school completion or equivalent. Specific prerequisites required by selected programs are listed in the program's description. Often these prerequisites are in the areas of mathematics, science or involve portfolio development. Students may apply as early as the first day of school in their Grade 11 year.

Inverness Education Centre/Academy Course Schedule 2021-2022

A List of Learning Outcomes for Each Course Can Be Provided Upon Request

	Grade 10	Grade 11	Grade 12
S1 A	Career Development 10 - O2	Mathematics 11 Mathematics at Work 11 Math Essentials 11	English 12 English Communications 12
S1 B	Science 10	Physics 11 Production Technology 11 Canadian Families 12	Production Technology 12 Canadian Families 12 Physics 12 (NSVS)
S1 C	Mathematics 10 Skilled Trades 10	English 11 English Communications 11	Co-operative Education 12 Physical Education 12 Physical Education Leadership 12
S1 D	Music 10	Community Based Learning 11 Biology 11	Mathematics 12 Mathematics at Work 12 Math Essentials 12 Pre-calculus 12 (NSVS)
S2 A	Physical Education 10	Canadian History 11	Chemistry 12 Physical Education 11/12 NSVS Elective
S2 B	Community Based Learning 11	Pre-calculus 11 Music 11 Co-operative Education 11	Music 12 Calculus 12 (NSVS) Co-operative Education 12 NSVS Elective
S2 C	English 10	Chemistry 11 Oceans 11	Biology 12 Co-operative Education 12 NSVS Elective
S2 D	Mathematics 10 Mathematics at Work 10 Math Essentials 10	Global History 12	Global History 12 NSVS Elective

ENGLISH LANGUAGE ARTS

ENGLISH 10 - Academic

English 10 offers learners an opportunity to consolidate their learning from their junior high years before they specialize in grade 11. The English 10 classroom offers abundant opportunities for students to read widely, to write frequently, to explore a wide range of print and visual texts, to work independently as well as collaboratively in small groups, and to design learning tasks that are of interest to them. As well, speaking and listening will be an important component of the course. Formal and informal oral presentations to the class will provide opportunities for students to develop their oral language. All students will write the NSEECD Grade 10 provincial exam.

ENGLISH COMMUNICATIONS 11 - Graduation

English Communications (ECM) courses at both 11 and 12 grade levels are intended for students who are not university-bound but who may choose to go to a post-secondary school such as Nova Scotia Community College. The course is intended for students who may need additional support in their development as readers, writers, and language users. English Communications courses are intended to prepare students for lifelong learning by engaging them in practical and interesting learning experiences closely related to their lives and to the world they will experience as adults. These courses are based on the interests and abilities of the students and provide support to meet their individual and diverse learning needs. The focus is on developing language skills necessary for the workplace. Students will work in small group and whole class settings that help develop their speaking and listening skills. They will read widely in their interest areas and create both written and visual texts to improve their reading and writing skills. There is flexibility within the ECM program to allow students to move to academic courses when it is deemed appropriate.

ENGLISH 11 (ENG11) - Academic

English 11 is intended for students whose goals might include post-secondary study. While this course emphasizes literary texts, students are provided opportunities to select their own texts for independent study and small-group inquiry. In designing learning experiences, teachers consider ways students can extend their knowledge base, thinking processes, learning strategies, self-awareness, and insights. Learning experiences should enable students to: study and analyze sophisticated texts and issues, be critical thinkers, write essays to demonstrate the ability to discuss and support an idea and use oral language to communicate in a variety of situations. The course also provides opportunities to explore other written forms and to develop the skills necessary for English 12 Academic.

ENGLISH COMMUNICATION 12 - Graduation

English Communications (ECM) courses at both 11 and 12 grade levels are intended for students who are not university-bound but who may choose to go to a post-secondary school such as Nova Scotia Community College. The course is intended for students who may need additional support in their development as readers, writers, and language users. English Communications courses are intended to prepare students for lifelong learning by engaging them in practical and interesting learning experiences closely related to their lives and to the world they will experience as adults. These courses are based on the interests and abilities of the students and provide support to meet their individual and diverse learning needs. The focus is on developing language skills necessary for the workplace. Students will work in small group and whole class settings that help develop their speaking and listening skills. They will read widely in their interest areas and create both written and visual texts to improve their reading and writing skills.

ENGLISH 12 - Academic Course

Students who are successful with English 12 should have the skills to be successful at university. This course is a continuation of the types of reading and writing done in English 11, with an increased emphasis on exploring social, political, ethical, and cultural issues in the wider community. Common texts will be used; however, students are provided opportunities to select their own texts for independent study and small-group inquiry. In designing learning experiences, teachers consider ways that students can extend their knowledge base, thinking processes, learning strategies, self-awareness, and insights. Learning experiences should enable students to: study and analyze sophisticated texts and issues, be critical thinkers, write essays to demonstrate the ability to discuss and support an idea and use oral language to communicate in a variety of situations. The course also provides opportunities to explore other written forms and to develop the skills and confidence to speak and listen with a variety of audiences.

MATHEMATICS

It is important for students to choose the appropriate mathematics program. The choice of the correct program depends on both the student's mathematical abilities and the program of study they plan to pursue following high school. Therefore, it is essential that students consult with their math teachers to determine their math capabilities and consult with post-secondary schools to ensure they have the required math program needed for their chosen area of study. Please consult with the School Counsellor if you need further direction. Check admissions requirements carefully by visiting the websites of individual institutions.

For those students intending to follow the academic pathway, Mathematics 10 will be followed by Mathematics 11 and then Mathematics 12. Mathematics 11 and Mathematics 12 are designed to provide students with the mathematical understandings and critical-thinking skills identified for post-secondary studies in programs that do not require the study of theoretical calculus. For those students intending to follow the science/engineering/math degree pathway, Mathematics 10 will be followed by Mathematics 11, then Pre-Calculus 11 and Pre-Calculus 12. Alternatively, students who successfully complete Mathematics 10 may choose to select a graduation credit in grade 11.

The Mathematics at Work stream is intended for students who require basic mathematics courses. These courses are Mathematics at Work 10, Mathematics at Work 11, and Mathematics at Work 12. This stream prepares students for some college and university programs where math is not required for the course of study.

Math 10 Essentials will allow students to succeed who have historically experienced difficulty with mathematics in junior high school. Math 10 Essentials is intended for students wanting to satisfy the three mathematics course requirements for graduation. Math 10 Essentials is followed the next year with Math 11 Essentials and then Math 12 Essentials.

MATH ESSENTIALS 10 - Graduation

Mathematics Essentials 10 is an introductory high school mathematics course designed for students who do not intend to pursue post-secondary study or who plan to enter programs that do not have any mathematics prerequisites. Mathematics Essentials courses are designed to provide students with the development of the skills and understandings required in the workplace, as well as those required for everyday life at home and in the community. Students will become better equipped to deal with mathematics in the real world and will become more confident in their mathematical abilities. The typical pathway for students who successfully complete Mathematics Essentials 10 is Mathematics Essentials 11 followed by Mathematics for the Workplace 12. 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 AT WORK 10 - Graduation

Mathematics at Work 10 is an introductory high school mathematics course which demonstrates the application and importance of key math skills. Mathematics at Work courses are designed to provide students with the mathematical understandings and critical-thinking skills identified for direct entry into the work force or for entry into programs of study that do not require academic mathematics. The typical pathway for students who successfully complete Mathematics at Work 10 is Mathematics at Work 11 followed by Mathematics at Work 12. Some students who successfully complete Mathematics at Work 10 may choose to take Mathematics Essentials 11 followed by Mathematics for the Workplace 12. Students in Mathematics at Work 10 will explore the following topics: measurement, area, Pythagorean Theorem, trigonometry, geometry, unit pricing and currency exchange, income, and basic algebra.

MATHEMATICS 10 - 2 Credits, Academic

This course will be presented as a 220-hour course. This will mean that students will have mathematics class every day for their grade 10 year. Mathematics 10 is an academic high school mathematics course which is a pre-requisite for all other academic mathematics courses. Students who select Mathematics 10 should have a solid understanding of mathematics from their junior high years. This means that students would have demonstrated satisfactory achievement of learning outcomes in grade 9 mathematics. 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.

MATH ESSENTIALS 11 - Graduation

This course provides students with the mathematics they will use in everyday situations at work and at home. Topics include constructing and interpreting graphs, collecting and organizing data, probability, housing options- renting and buying, budgeting, measuring, estimating and designing in 2-D and 3-D.

MATHEMATICS AT WORK 11 - Graduation

at Work 11 demonstrates the application and importance of key mathematical skills. The typical pathway for students who successfully complete Mathematics at Work 11 is Mathematics at Work 12. The Mathematics at Work pathway is designed to provide students with the mathematical understandings and critical thinking skills identified for direct entry into the work force or for entry into programs of study that do not require academic mathematics. Students in Mathematics at Work 11 will explore the following topics: measurement systems volume, 2-D and 3-D geometry, scale, exploded diagrams, numerical reasoning, personal budgets, compound interest, financial institution services, and formula manipulation for various contexts.

MATHEMATICS 11 - Academic Course

This course is the basic mathematics course for students intending to study at university. Topics covered will include trigonometry, systems of equations, statistics, and an independent study unit. It is recommended that students in this course should have attained have at least 60% in Academic Math 10.

PRE-CALCULUS 11 - Advanced Course

Pre-Calculus 11 is an advanced high school mathematics course. Students who select Pre-Calculus 11 should have a solid understanding of the Mathematics 11 curriculum. Pre-Calculus 11 is a prerequisite for Pre-Calculus 12. These courses are to be taken consecutively, not concurrently. Courses in the Pre-Calculus pathway are designed to provide students with the mathematical understandings and critical-thinking skills identified for postsecondary studies in programs that require the study of theoretical calculus. Students in Pre-calculus 11 will explore the following topics: absolute value, radical expressions and equations, rational expressions and equations, angles in standard position, analyze and solve quadratic equations, linear and quadratic equations and inequalities in two variables, arithmetic and geometric sequences, and reciprocals of linear and theoretical calculus.

MATH ESSENTIALS 12 - Graduation

Mathematics Essentials 12 is a graduation level high school mathematics course. Students will have the opportunity to learn about measurement topics that involve imperial units in addition to conversions between metric and imperial units. Students will examine many skilled trades and to choose the top three that have caught their interest. As well, students will have the opportunity to examine a number of topics related to ratio, rate, and proportion as they apply to various trades. After being exposed to a variety of information and experiences, students will produce a project that will demonstrate to others what type of mathematical knowledge is required to be successful at their career choice.

MATHEMATICS AT WORK 12 - Graduation Course

This course will work toward improving the student's mathematical knowledge base. Most aspects of the course will be directly related to mathematic understanding to be successful in many trades. This course will be modular and project oriented to reflect the type of learning that will occur if students move on to Nova Scotia Community College. The course will include measurement, math in the workplace investigation, ratio, rate, proportion and a major project.

MATHEMATICS 12 - Academic

This is a continuation of Math 11 Academic for those students interested in the fields of arts, business, nursing, human kinetics and other such fields. Topics include statistics, probability, polynomials, exponential functions, analytic geometry, sequences and series including applications to compound interest, annuities and mortgages. It is recommended that students in this course have at least 60% in Academic Math 11.

PRE-CALCULUS 12 - Advanced

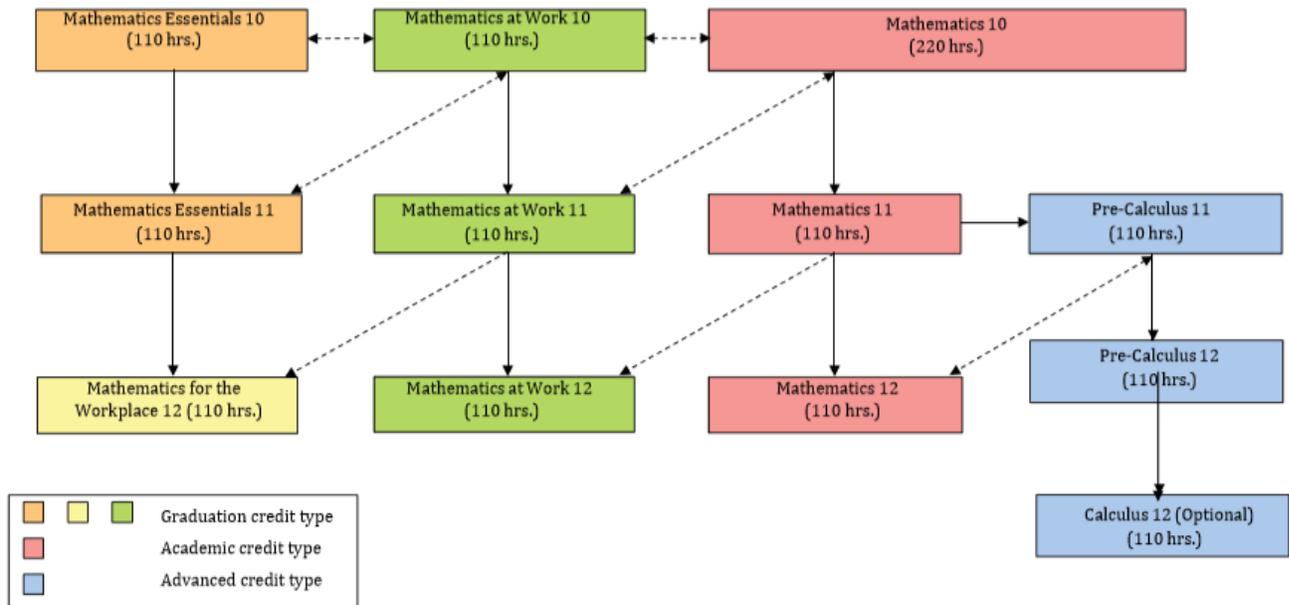
This course is designed for students who wish to continue their study of mathematics and science in post-secondary institutions. Students will study sequences and series; functions including polynomial, rational, exponential/logarithmic, and trigonometric; and complex numbers. It is strongly recommended that students have Advanced Mathematics 11 and Advanced Mathematics 12 as prerequisites, although in cases where students have Academic Math 12. Admission to Pre-Calculus 12 could be possible.

CALCULUS 12 - Advanced

This course is often only offered through the Nova Scotia Virtual School. This elective course develops the principles of calculus through limits, areas, and instantaneous rates of change. The basic concepts of continuity, derivatives, limits, and integrals will be investigated. Applications and problems will be used wherever possible. The course is designed for students who plan to continue their studies in a science, engineering, business, or technology field. The prerequisite for Calculus 12 is Pre-Calculus 12. Note: Calculus 12 is not a pre-requisite for any first-year calculus course in Nova Scotia Universities.

Senior High Mathematics: Common Pathways

This diagram illustrates course pathways for senior high mathematics.



SCIENCE

SCIENCE 10 - Academic

This course is designed to provide students with the tools necessary to become scientifically and technologically literate. Scientific concepts and skills are taught in a social context that encourages active and meaningful learning among students. Classes are a mix of theory and practical, hands-on work, with an emphasis on scientific literacy and numeracy. Core topics include the continuation of the Grade 9 unit in chemistry and an introduction to physics, ecology, and weather. It is designed to be a foundational science course that reflects the integration of biology, chemistry, and physics while emphasizing critical thinking, technological literacy, communication, and numeracy as well as personal and social values and skills. This academic level course will provide the background necessary for students who wish to take grade 11 and 12 science courses, possibly with the intention of pursuing sciences at a post-secondary level.

BIOLOGY 11 - Academic

Biology 11 introduces students to the study of biology, as well as laying the groundwork for studies in future biology courses. This course is designed to be a discovery of the microscopic world and for students to experience a variety of interesting labs and activities. Throughout the semester, students will be guided to develop their skills with the microscope, slide work, dissections, analysis, and independent thinking. Topics include cell structure and function, the classification of organisms, the diversity of living things, the digestive system, the immune system, and the circulatory system.

OCEANS 11 - Academic

The Oceans 11 program is designed to allow students to explore aspects of global and local oceanography and current ocean-related issues. Grounded in a strong oceans-science base, the course examines the oceans from a systems perspective focusing on the connections within the ocean and between the ocean and the terrestrial world, with an emphasis on ocean-human interactions. The notion of sustainability and the role of the ocean in the Earth's sustainability are central to the course. The Oceans 11 course is divided into four main themes: Marine Biome, Aquaculture, Ocean Structure and Motion, and Coastal Zone Management. Students are expected to display qualities of active learning. Course material will be supplemented with laboratory exercises, computer related activities and independent studies.

CHEMISTRY 11 - Academic

Chemistry 11 is an introductory course that presents the general concepts and theories of the science. It is a thorough extension of the brief introduction to chemistry offered in the academic Science 10 course. The course contains theory, laboratory work, and problem solving. Course work entails daily assignments, unit tests, and a laboratory program investigating the concepts dealt with in class. Some of the topics treated in the course are periodic trends of the elements, composition of matter, chemical bonding, chemical nomenclature and formula writing, stoichiometry and the mole, chemical reactions and equations, solutions, and an introduction to organic chemistry. A strong mathematical background, along with the ability to memorize an extensive list of chemical symbols for nomenclature purposes, enhances success in this course.

PHYSICS 11 - Academic

This course is designed for students who wish to understand the world around them as well as to prepare for a future in science. Emphasis will be placed on the interconnections between science, technology and society. Topics include kinematics (motion), dynamics (forces), energy, momentum and waves. Problem-solving and lab work will be significant parts of the course. To be successful in this course, students should do homework regularly. Successful completion of Mathematics 10 and Science 10 will help prepare students for Physics 11.

BIOLOGY 12 - Academic

Biology 12 explores life from a molecular point of view and is intended to increase awareness of the tremendous impact of biology and technology upon society. Biology 12 continues the theme of homeostasis begun in Biology 11 by looking at pathways of communication within the body, specifically, the nervous and endocrine (hormonal) systems. Other themes in Biology 12 include: asexual and sexual reproduction at the cellular and whole organism levels, the principles of genetics, the sources of genetic change and the mechanisms of evolution. As in Biology 11, classroom work is complemented with activities and laboratory explorations. The major lab is the Fetal Pig Dissection.

CHEMISTRY 12 - Academic

Chemistry 12 provides an in-depth examination of thermochemistry, solution chemistry, chemical kinetics, chemical equilibrium, acid-base systems, and electrochemistry, with emphasis on understanding why substances react the way they do. It provides a basis for continuation of science in post-secondary studies. The course work entails daily assignments, unit tests, and an extensive laboratory program investigating the concepts dealt with in class. Chemistry 12 success is in direct proportion to strong mathematical abilities and problem solving, as well as independent daily homework assignments completed in preparations for next class.

PHYSICS 12 - Academic

This is an academic course that continues the work of Physics 11. Physics 12 is good preparation for students considering technical schools, community colleges, and life sciences at university or for those who have a natural curiosity about the world around us. Students taking Physics will be expected to use problem-solving approaches to investigate and understand scientific concepts. Topics include the study of motion in two dimensions, energy, gravitation, electrostatics, circuits, magnetism, quantum physics and radioactivity. This course will have a stronger mathematical emphasis than Physics 11. Successful completion of Physics 11 and Mathematics 11 will help transition students to this course.

SOCIAL STUDIES

HISTORY10 – Academic

This course, which focuses on ancient history, allows students to develop an understanding of the concept of civilization by examining the origins of civilization and comparing some civilizations that have contributed to our modern world with a focus on western civilization. The course has five broad chronological divisions: pre-history, the birth of civilizations (including Mesopotamia and Egypt), Greece, Rome, and the Middle Ages. Major themes will be developed spanning the broad chronological period (for example, agriculture, archaeology, development of government, religion, and revolutions).

CANADIAN HISTORY 11 - Academic

Canadian History is a survey of our history which examines continuing and persistent questions about the history of Canada; that is, questions which are of current concern, but which have deep historical roots. These are addressed through the following five themes: 1. Globalization: What has been Canada's place in the community of nations, and what should Canada's role be? 2. Development: How has the Canadian economy evolved to meet the needs and wants of all Canada's people? 3. Governance: Have governments in Canada, past and present, been reflective of Canadian societies? 4. Sovereignty: How have struggles for sovereignty defined Canada and how do they continue to define Canada? 5. Justice: How has Canada struggled for a just and fair society? Historical developments are treated chronologically within each theme.

SOCIOLOGY 12 - Academic

Sociology 12 is designed to give an understanding of the basic aspects of sociology. It allows students to examine Canadian sociological issues and to participate in a local community/sociological project. Canadian sociological issues that might be considered include the family, culture, social organization, women in society, conformity and deviance, conflict, crime in Canada, punishment and rehabilitation. This course requires an independent study using the methods appropriate to sociology.

GLOBAL GEOGRAPHY 12 - Academic

This course focuses on global issues and explores major themes that help us to understand the nature and origins of complex human/environmental relationships in the contemporary world. Guided by the fundamental themes and skills of modern geography, students pursue this exploration through five compulsory units: The Global Geographer, The Planet Earth, Population, Resources and Commodities and Urbanization. Students will be expected to engage in research and effectively communicate the findings of their research.

GLOBAL HISTORY 12 - Academic

Global History 12 uses the discipline of history to explore the events that have affected our political, economic, and social development since the end of World War II. The approach is thematic, with five central themes forming the basis of the course: The Global Historian, The Dynamics of Geo-Political Power, The Challenges of Economic Disparity, The Pursuit of Justice, and Societal Change and Interdependence. The study required by each unit will contribute to an understanding of major historical developments following 1945. Students will become familiar with the Historical Method and will be required to engage in research and report on that research.

PERSONAL DEVELOPMENT AND CAREER EDUCATION

CO-OPERATIVE EDUCATION 11 - Academic

CO-OPERATIVE EDUCATION 12 - Academic

The Co-operative Education course is a career-oriented course designed to integrate classroom theory with practical workplace experience. Co-operative Education enables the student to explore a career area, gain valuable knowledge and experience, and develop/enhance necessary attitudes while earning a high school credit recognized by many post-secondary institutions. Students are required to complete an in-class training component in school followed by 80 hours of work placement. Students engage in self-assessment exercises, learn career decision-making skills and job search strategies, while being exposed to current employment issues including but not limited to health and safety issues, employment insurance benefits and pension programs. They are expected to complete a professional portfolio, daily log/journal, reflective assignments, training plan and career plan.

Students are responsible to initiate a suitable 'out of class' placement that is directly connected to the field of their choice. This component can take place during or after school hours, on weekends, and/or during vacations in accordance with board and school policies and agreed upon arrangements between the co-op coordinator, mentor (site supervisor), student and parent(s). Co-operative Education is open to students 16 years of age or older.

CAREER DEVELOPMENT 10 – Open

Career Development 10 is designed to help students to understand and manage themselves, to manage their personal lives and resources and to develop the ability to organize and shape their careers. Students will explore realistic goals, assess their own abilities, and realize how these actions affect their learning and decision-making processes. They develop awareness of their place in the community and the value to their personal growth of giving service to the community. Career Development 10 consists of the following modules: Personal Development, Career Awareness, Workplace Readiness, Financial Management and Life Work Portfolio. This course is a requirement for the Options and Opportunity Program.

COMMUNITY BASED LEARNING 11 – Open

CBL 11 is a full credit course in the Options and Opportunities (O2) program and is required by learners to maintain O2 status and receive the O2 certificate upon graduation. CBL 11 consist of four modules that have been developed to build on the knowledge and extend the learning that happened in Career Development 10. Learners will continue to build on their communication, teamwork and decision-making skills as they explore their role and apply their skills as active citizens in the community. They will also investigate how their goals align with career pathways and create a plan to achieve their goals. This will require learners to also create a financial plan for achievement of their goals. Experiences with community partners and the workplace will support this learning. Modules include Citizenship and Community, Career and Life Planning, Financial Management, and Workplace Culture and Safety

HEALTH AND HUMAN SERVICES 12 – Academic/Open

This course may be offered as an academic or open credit in the same classroom depending on the outcomes completed by the individual student. It is a course requirement that all students participate in a volunteer placement or service-learning project throughout the course (minimum 10 hours). Units of study and topics include the following: Overview of the Helping Field, Volunteer Experience, Health and Human Services Systems, Career Connections and Personal and Professional Skills.

FINE ARTS

MUSIC 10 - Academic

This course will emphasize the creation and performance of music at a level consistent with previous experience. This course will further develop the fundamentals: instrumental playing, music theory, history, sight reading, ear training and solo and ensemble playing. Students will develop musical literacy skills by using the creative and critical analysis processes in performance and a range of reflective and analytical activities. Students will respond to, reflect on, and analyse various genres and periods of music. The music program is designed to make success a real possibility for all students interested in Music education.

MUSIC 11-Academic

This course will emphasize the creation and performance of music at a level consistent with previous experience. This course will further develop the fundamentals: instrumental playing, music theory, history, sight reading, ear training and solo and ensemble playing. Students will develop musical literacy skills by using the creative and critical analysis processes in performance and a range of reflective and analytical activities. Students will respond to, reflect on, and analyse various genres and periods of music.

MUSIC12 – Academic

This course will further develop the fundamentals: instrumental playing, music theory, history, sight reading, ear training and solo and ensemble playing. Students will develop musical literacy skills by using the creative and critical analysis processes in performance and a range of reflective and analytical activities. Students will respond to, reflect on, and analyse various genres and periods of music.

FAMILY STUDIES

CANADIAN FAMILIES 12 – Open

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. Throughout the course students will explore the evolving family and its role in society. Students will research the challenges faced by today's Canadian families and look at society's response to those challenges which include employment, consumerism, and providing basic needs of shelter, food and nurturing throughout the years. Related career opportunities will be researched in each module.

TECHNOLOGY RELATED EDUCATION

SKILLED TRADES 10 - Academic

Skilled Trades 10 models the realities of working in skilled trades professions. Skilled Trades 10 will engage students in an investigation into the skilled trades, the impact that they have on society, and the opportunities that exist for those who pursue a livelihood by working as skilled tradespersons. This course provides a unique mixture of classroom and simulated workplace activities. Working with hand tools used by professional trades people, students complete real construction tasks and building projects. The course is divided into 4 main areas: safety, skilled trades living, measurement and calculation, and tools and materials.

PRODUCTION TECHNOLOGY 11 – Open

Production Technology 11 emphasizes custom production in the wood lab. The intention of the course is to give students a firm foundation in the principles of proper design, tool use, safety and machine maintenance. Projects in the course will be based on the design, planning, finishing of the project, as well as sound construction techniques. Each of the projects will attempt to teach a different type of production and its associated techniques. Since this is a hands-on course, attendance is very important in achieving the goals of the program.

PRODUCTION TECHNOLOGY 12 – Open

Production Technology 12 looks at the entire manufacturing process from a broad viewpoint. Students will look at all of the production of products to include budgeting, design, prototyping, testing, construction, resource management, and marketing. Projects will consist of students working both in teams and individually to complete all steps in the manufacturing process and will involve both theory and hands on work. Students will be asked to not only explain their work, but to defend the choices they made in producing their products and to describe how their product will impact the environment.

PHYSICAL EDUCATION

PHYSICAL EDUCATION 10 - Open

This course will provide students with a variety of fitness and sport experiences to enhance their understanding of personal fitness and growth. Physical Education 10 includes some theory components, coupled with predominantly active experiences whereby students will have the opportunity to participate in a variety of indoor and outdoor fitness, sport, and recreational experiences. The emphasis of this curriculum is to provide students with experiences that require them to take and reflect on their personal responsibility for active, healthy living now and throughout life. The course is divided into four (4) modules: outdoor pursuits, exercise science, personal fitness, and leadership.

PHYSICAL EDUCATION 12 - Open

Physical Education 12 is designed for students who want to remain physically active in their final year of high school. A variety of sports and recreational activities will make up this course. Personal fitness and fitness appreciation will be stressed, as well as co-operation with fellow students and staff. This program develops maturity through an active lifestyle program so the students can remain active once they leave the school setting. Students will have a teaching and intramural component in this course.

PHYSICAL EDUCATION LEADERSHIP 12 – Academic

This course is designed to develop and enhance students' leadership skills and qualities by offering recreational leadership opportunities. Students will support school and community-based activities, create their own experiences, and participate in various certifications to support school and community recreation development. Consistent demonstration of leadership skills and qualities, as well as reflection of learning experiences will be a fundamental component of the assessment process. This course promotes leadership development in the field of sports and recreation.

OPTIONS AND OPPORTUNITIES PROGRAM

The Options and Opportunities (O2) program provides a comprehensive educational program that bridges high school to post-secondary education, work and/or youth apprenticeships for each student. The program is about helping student make connections between what they are learning in school and post-secondary programs and/or work.

High school students who participate in the program get experience in various careers and increase opportunities for community-based learning such as cooperative education. Students who graduate from O2 will have fulfilled all graduation requirements and earn a high school diploma. In addition, they will have also graduated with a greater understanding of their skills, knowledge, and strengths as well as a clearer career plan.

Students have the chance to engage in training programs such WHMIS, First Aid, Safety Orientation, Marine/Fisheries Safety, Fall Arrest and Food Handlers. This training often works to the student’s advantage when seeking summer employment. Students will also be exposed to funding to provide personal protective equipment, in-school guest speakers and field trips to post-secondary schools and work sites.

Students who complete high school through the O2 program will be expected to demonstrate the following:

- Ability to articulate a career plan.
- Strong employability and personal skills
- Personal awareness of their skills and strengths
- Average or higher literacy and numeracy
- Basic skills and knowledge specific to at least one occupation
- Ability to transition to work, a career path, or a post-secondary program
- Choose a post-secondary program with confidence
- Identify career options within Nova Scotia.

Only students entering Grade 10 will have the opportunity to apply to enroll in the Options and Opportunities (O2) Program. O2 is a three-year program and as such entry into the O2 program will not be permitted beyond Grade 10. Apart from their other graduation requirements, O2 students need to complete several courses to satisfy the O2 certification requirements. These courses include:

- Career Development 10 (CD10)
- Community Based Learning 11 (CBL11)
- Three Co-operative Education courses (CO-OP)

A general O2 course schedule may include like the following:

Grade 10		Grade 11		Grade 12	
Semester 1	Semester 2	Semester 1	Semester 2	Semester 1	Semester 2
CD10		CBL11	CO-OP 11	CO-OP 12	CO-OP 12

NOVA SCOTIA VIRTUAL SCHOOL (NSVS)

The Department of Education offers numerous online courses. Every school has a contact teacher who will ensure that the students have access to a computer and will work with students regarding their course progress. If contacted by the instructor regarding a student's work, the school contact teacher will meet with the student to discuss the teacher's concerns. If the student has difficulty with the software, the contact teachers can assist the student to contact the NSVS Help Desk.

The time spent working on the course each day is the duration of one semestered class plus time at home (on/off-line). Students can expect to spend as much time working at home as they normally would for a course which they are taking in the classroom. There will be off-line activities such as reading assignments, planning, and drafting responses. A list of NSVS courses available in 2021-2022 can found on the next page.

Curriculum outcomes for NSVS courses can be provided upon request.

Students interested in enrolling in a NSVS course should make an appointment with the School Office. To enroll in a NSVS course, permission needs to be given by the school as well as parents/guardians.

2021 – 2022 NSVS COURSE OFFERINGS

Semester 1	Semester 2
<ul style="list-style-type: none"> • Advanced English 11 • Advanced English 12 • African Canadian Studies 11 • Arts Entrepreneurship 12 • Biologie 11 / Biologie Adv 11 • Biologie 12 / Biologie Adv 12 • Biology 11 / Advanced Biology 11 • Biology 12 / Advanced Biology 12 • Business Technology 11 • Canadian Families 12 • Career Development 11 (1/2 credit) • Chemistry 11 / Advanced Chemistry 11 • Entrepreneurship 12 • Film & Video Production 12 • Fitness Leadership 11 • Géographie Planétaire 12 • Geology 12 • Global Geography 12 /Advanced Global Geography 12 • Global Politics 12 • Law 12 • Mathematics 11 • Mathematics 12 • Mathematics at Work 12 • Oceans 11 • Océans 11 • Physics 11 / Advanced Physics 11 • Physics 12 / Advanced Physics 12 • PreCalculus 11 • PreCalculus 12 • Sociology 12 • Tourism 11 • Visual Art 10 • Workplace Health & Safety 11 (1/2 credit) 	<ul style="list-style-type: none"> • Accounting 12 • African Canadian Studies 11 • Biologie 11 / Biologie Adv 11 • Biologie 12 / Biologie Adv 12 • Biology 12 / Advanced Biology 12 • Business Technology 11 • Calculus 12 • Canadian Families 12 • Canadian History 11 • Chemistry 11 / Advanced Chemistry 11 • Chemistry 12 / Advanced Chemistry 12 • Computer Programming 12 • Core French 10 • Entrepreneurship 12 • Film & Video Production 12 • Géographie Planétaire 12 • Global Geography 12/Advanced Global Geography 12 • Global Politics 12 • Introduction à la littérature 12 • Mathematics 11 • Mathematics 12 • Mathematics at Work 12 • Multimedia 12 • Océans 11 • Physics 11 / Advanced Physics 11 • Physics 12 / Advanced Physics 12 • PreCalculus 11 • PreCalculus 12 • Science 10 • Sociology 12 • Visual Art 11 / Advanced Visual Art 11
<p>Full Year</p> <ul style="list-style-type: none"> • IB Math Application- SL (full year) • IB Music - SL (full year) 	