

Dr. John Hugh Gillis Regional High



**PROGRAM OF STUDIES
2017-2018**

Table of Contents	
OVERVIEW.....	3
FOREWORD.....	4
SCHOOL'S MISSION.....	4
FULL TIME STUDENTS.....	4
SECTION ONE: HIGH SCHOOL CREDITS.....	5
Definition of a Credit.....	5
Credit Types.....	5
REQUIREMENTS FOR GRADUATION.....	6
COMMUNITY COLLEGE ADMISSION REQUIREMENTS.....	7
SECTION TWO: UNIVERSITY ADMISSION REQUIREMENTS.....	8
SCHOLARSHIP RANKING.....	8
CURRICULUM SUPPORT SERVICES.....	9
SECTION THREE: Courses at Dr. JH Gillis.....	10
BUSINESS EDUCATION.....	10
RÉPERETOIRE DES COURS EN IMMERSION.....	14
LE CERTIFICAT D'IMMERSION.....	14
Alternate Language.....	16
MATHEMATICS.....	17
SCIENCE.....	3
What Sciences Do I Take??.....	7
SOCIAL STUDIES.....	8
O2 Options and Opportunities Program.....	12
Co-op Ed. Courses.....	12
SENIOR HIGH FINE ARTS EDUCATION.....	15
FAMILY STUDIES.....	17
TECHNOLOGY RELATED EDUCATION.....	19
PHYSICAL EDUCATION.....	22
Nova Scotia Virtual School.....	23
SECTION FIVE: THE INTERNATIONAL BACCALAUREATE DIPLOMA PROGRAM.....	24

**DR. JOHN HUGH GILLIS REGIONAL HIGH SCHOOL
COURSE SELECTION
GRADES 10, 11, and 12**

OVERVIEW

The Dr. John Hugh Gillis Regional High School Program of Studies is intended to assist students and parents in selecting the appropriate courses for each student enrolled in grades ten, eleven and twelve.

Section One outlines the types of credits in high school as well as the requirements for high school graduation.

Section Two reviews the requirements for entrance to the Nova Scotia Community College and to University. The procedures for scholarship ranking and curricular support services at the school are also outlined in Section Two.

Section Three of this booklet outlines all the courses offered to students of the school, (Grades 10, 11 and 12). Each student will be provided with a personal course selection form which must be completed and signed by a parent/guardian and returned to the school. The courses selected by each student will be reviewed by the Guidance Department to ensure that prerequisites have been achieved and that correct placements have been made. Guidelines for Students/Parents and Guidance for completing the course Registration Form are included at the end of Section Three.

Section Four includes samples of student schedules in Grade 10, 11 and 12. Any questions or concerns regarding the course selection process should be directed to the Guidance Department at 863-1620.

Section Five - International Baccalaureate Program includes Pre-IB 10 and IB 11 & 12

FOREWORD

This handbook is produced for students and parents. It presents the programs and courses offered at Dr. John Hugh Gillis Regional High School. Students and parents should use the information to plan a high school program that will best serve the student's needs. Additional information, if required, may be obtained from the Guidance Department.

SCHOOL'S MISSION

At Dr. John Hugh Gillis Regional High School students will be provided the opportunities to develop the knowledge, attitudes, and skills to assist in becoming responsible, caring persons who are competent, confident thinkers able to make a valued contribution to society.

FULL TIME STUDENTS

All grade 10 students attending Dr. John Hugh Gillis Regional High School must be enrolled in seven courses over the academic school year, students in Grade 11 and 12 must take 4 courses each semester for a total of 8 courses per year. Students enrolled for one semester only, must take 4 courses. It is important to note that final marks in all courses in which a student is enrolled must appear on the student's final transcript.

Full time enrollment results in a greater focus on building the academic skills necessary for future success.

"COMMITTED TO LEARNING"

SECTION ONE: HIGH SCHOOL CREDITS



Definition of a Credit

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.

Credit Types

Each course is categorized as one of the following credit types:

Academic

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

Advanced

These courses are designed to meet the needs of students who have demonstrated an exceptional degree of academic ability or achievement. **An independent study component will be a compulsory segment of these courses.**

Graduation

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

International Baccalaureate

These courses are designed for both certificate and diploma students who select I.B. courses as a partial or full I.B. Program.

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.

Courses are identified by course title, grade level (10, 11 or 12); credit type (academic, advanced, graduation, I.B., or open); and credit value (one credit, two credits, or ½ credit).

REQUIREMENTS FOR GRADUATION

Credits to graduate

All High School students require 18 credits to graduate. No more than 7 of the 18 credits may be from Grade 10 courses, and at least 5 must be Grade 12 courses. These students must take and pass the following compulsory credits to be eligible for graduation:

Language, Communication and Expression

English Language Arts, 1 at each grade level (10, 11, 12);

Students in the French Immersion Program, will require three French Language Arts courses, one at each grade level (10, 11 & 12)

1 Fine Arts: Art, Drama, or Music.

Science, Mathematics and Technology

2 Mathematics

2 Sciences: 1 from Biology, Chemistry, Science 10, OR Physics, and 1 other approved Science course

2 other from Mathematics, Science OR Technology. All Computer Related Studies and Industrial Arts Technology courses are eligible Technology courses.

Personal Development and Society

1 Physical Education 10, 11, or 12

1 Canadian History: Canadian History 11, or Gaelic Studies 11

1 Global Studies: Global Geography 12, Global History 12

Prerequisites for courses and programs

Certain courses (such as Mathematics or Chemistry) require successful completion of the previous year's course before the next year's work begins.

COMMUNITY COLLEGE ADMISSION REQUIREMENTS

- Applications to most programs at the Community College are processed on a continuous basis.
- Students should apply as early as November 1st.
- Applicants should consult with the guidance department regarding the application process.

General entry requirements

Admission to a core program of the Nova Scotia Community College normally requires high school completion or the equivalent. Specific prerequisites required by selected programs are listed in the program's description.

Applicants who do not possess high school certification may register in an academic upgrading program to obtain the prerequisites required.

Note: The Nova Scotia Community college has set aside seats for Native and Afro-Canadians in each of the core programs.

High School Equivalencies

For admission to the College the following are considered as general equivalencies to high school completion:

- a) Academic Upgrading Level 4
- b) General Education Development (GED)

Selection Process

Applicants are selected on the basis of their suitability for the program and completion of the program prerequisites.

The following may be considered when accepting applicants:

- Results of high school marks at the Grade 11 and 12 levels
- Results of other post-secondary studies
- Results of other related studies or training
- Related work or life experiences
- Results of tests administered by the College
- Results of an interview with a College Official

SECTION TWO: UNIVERSITY ADMISSION REQUIREMENTS

All universities in Nova Scotia require for general admission that students have a minimum of (5) university subjects (Academic or Advanced) in Grade 11 and 12.

For general admission (January, February and March 1st) an average of 75% and above with no mark below 65% is required.

The minimum average varies from one university to another. Students must be conscious of variations in entrance requirements and make every effort to read the university calendars for complete details.

The following model from St. Francis Xavier University will give you a good idea of general admission requirements.

Students entering St. Francis Xavier University in September, 2010, the admission requirements will be:

- 1) A combined average of 75% in Grade 11 and 12 which must include English each year.
- 2) An average of at least 75% in five Grade 12 courses, including English with no mark below 65%.

Averages above 75% may be required in limited enrollment programs.

Acceptable university preparatory subjects are:

English, Geography, History, Mathematics, Modern Languages, Classical Languages, Economics, Biology, Chemistry, Geology, Physics and all I. B. courses. Two of the five subjects may be in a university preparatory subject not listed above.

SCHOLARSHIP RANKING

Scholarships are awarded to students who have made superior academic achievement in high school. Superior achievement implies that the students have at least an 90% average in core academic or advanced courses and ranked in the top 5% of the class (usually the top 15 students). All students who are eligible for scholarships must abide by the following requirements to be ranked at this school.

1)The student must obtain an average of 90% or better in Grade 11. (English plus top four university prep courses)

2)The January ranking in Grade 12 will be based on the marks in the top four university preparatory Grade 12 courses listed below:

English 12, Advanced English 12 or English 12 African Heritage, Global History 12, , Global Geography 12, Math 12, Advanced Math 12, Pre-Calculus 12, Calculus 12, French 12, Français 12, Economics 12, Biology 12, Chemistry 12, Geology 12, Physics 12, Sociology 12, Law 12 and Entrepreneurship 12.

3)The June ranking will be based on the following: English 12 and the top four university preparatory courses.

4)For ranking purposes, advanced courses, as designated in the Nova Scotia Public School Program, are to be weighted by multiplying the mark by 1.05 and using the weighted mark when calculating the student's aggregate. As well all IB courses are to be weighted by multiplying the mark by 1.05. IB diploma students must complete an externally evaluated 4000-word independent essay, a theory of knowledge essay and 150 hours of community service focused on creativity, action and service. Weighting is not to be used for averaging or determining marks to be placed on students' transcripts. The only appropriate use for a weighted mark is in the determination of the student's aggregate for the purpose of ranking.

CURRICULUM SUPPORT SERVICES

COMPUTER FACILITIES - INTERNET LAB

Located next to the Library, this Lab allows students to explore the information highway through state of the art technology.



LIBRARY SERVICES

Under the direction of our library technicians the Library operates as the center of our learning environment. It is open between 8:00 a.m. - 4:00 p.m. daily. Photocopying service is available to students and the Library is well stocked with a large quantity of print and media materials as well as access to the Internet. Any member of the community who may wish to donate additional resources is welcome to contact the school.

GUIDANCE DEPARTMENT

The Guidance Center assists students in career planning, course selection, and personal guidance.

DISTANCE EDUCATION

The Strait Regional School Board offers some high school credit courses through Distance Education to students in the Strait region. These are Internet based courses which are available to students at the Dr. John Hugh Gillis Regional High School should they be unable to access the courses at the school. Students enrolled in the Distance Education program must be able to work independently and be recommended to the program by school officials.

CORRESPONDENCE COURSES

Students may choose to study for credits by independent study through the Nova Scotia Department of Education Correspondence Services. Courses are available at all grade levels. Costs are incurred by the student.

APSEA

Through the Atlantic Provinces Special Education Authority, students who are hearing challenged receive tutoring services.

Resource Support (Learning Center)

The learning center co-ordinates the development, implementation, monitoring and evaluation of resource supports provided to students at Dr. John Hugh Gillis Regional High School. The academic supports available to students can be in the form of

- Team teaching
- Professional support and advice
- Support for peer tutoring and other learning assistance programs
- Withdrawal of students for assessment or short term intensive instruction
- Small class intensive instruction
- Teacher mentoring

SECTION THREE: Courses at Dr. JH Gillis

BUSINESS EDUCATION

ECONOMICS 11 (ECON11) - (Academic, 1 credit) Course Code - 012023

This course in Canadian economics begins with a general study of the economy of the local community, leading into such selected aspects as important private firms, important occupational groups, local unions, three levels of government spending, taxation; and expanding to the provincial and regional economy to consider primary, secondary, and tertiary industries. Distribution of wealth and power, labor movement, free enterprise, crown corporations, taxation, and economic ties with the world are also considered as parts of the Canadian economy. Various economic principles, issues, and theories including budgeting that affect the lives of students are included.

ECONOMICS 12 (ECON12) - (Academic, 1 credit) Course Code - 012024

This course in national/international economics is an extension of Economics 11. It provides a deeper study of selected economic issues as well as consideration of certain theories. The unit on microeconomics considers such topics as demand and supply, product differentiation, products and markets. Macroeconomics considers national accounts; economic indicators and government policy; money, banking, finance; and economic growth. There are also three optional units: history of economic ideas; international economy; and comparative economics. Economics 11 is strongly recommended as a prerequisite.

ENTREPRENEURSHIP 12 (ENT12) - Academic Course Code - 002098

A practical and hands-on course designed to help students acquire the knowledge, skills, attitudes and values required to be innovative and successful employees or independent business persons. By the end of this program students will be able to explore the theory and processes of entrepreneurship; organize, operate and manage entrepreneurial activities; prepare and present a business plan.

BUSINESS TECHNOLOGY 11 (BTEC11) - Academic Course Code – 002354

Through the processes involved with the production of business documents, students learn to apply the conventions, practices, principles and employability skills within the personal and business environments. Business Technology 11 consists of five mandatory modules: Business Technology Fundamentals, Document Processing, Spreadsheets, Touch Keyboarding and Desktop Publishing. Business Technology 11 is a full-credit academic course and is an eligible technology credit to meet graduation requirements. Business Technology 11 is recommended for all students of all learning levels.

TOURISM 11 (TOUR11) - Course Code 098205

TOURISM 12 (TOUR12) - Course Code 098226

This course will be helpful for students considering a career or post- secondary studies in tourism. Students will acquire knowledge and develop skills found in the workplace. Modules include The Tourism Professional, Effective Communication, Career Exploration, Tourism Sales& Services, Tourism Planning and Tourism and the Future.

ENGLISH

ENGLISH 10 (ENG10) - Academic Course Code - 004084

The English 10 program will include a study of fiction and nonfiction, prose, poetry and drama. Emphasis will be placed on learning and examining a range of texts for the development of appropriate reading, speaking, listening and writing skills.

ENGLISH/COMMUNICATIONS 11 (ECM11) Graduation - Course Code - 004163

Through the medium of plays, short stories, novels, etc., a number of themes and ideas are discussed. Emphasis is also placed on oral communications and basic writing skills.

ENGLISH 11 (ENG11) - Academic Course Code - 004162

ENGLISH 12 (ENG12) - Academic Course Code - 004165

These courses are intended for students whose goals include secondary study. These courses have an emphasis on literary texts and are intended to enable students to be critical and reflective readers, speakers, and writers. Through a variety of texts, both fiction and nonfiction, poetry, and prose, students will demonstrate a sophisticated control of language. The process and techniques of research writing will be included.

ENGLISH 11 Advanced (ENG11ADV) Code – 004251

IB ENGLISH LITERATURE 11 (IBENG11) Code – 004260

IB ENGLISH LITERATURE 12 (IBENG12HL) Code - 004261

The study of literature is the main focus of this two-year program leading to the examination in IB English. Through the study of literature, including world literature in translation, the student gains a broadened and international perspective of literature and human thought. Opportunities are provided for practising and developing oral and written communication in a variety of styles and for understanding literary study through a more critical exploration of texts. Fifteen literary works are selected for examination at the higher level. Although each examination year may vary, works are selected according to a four-part format set by IB, including World Literature, texts for Detailed Study, Groups of Works, and School's Free Choices.

Assessment in English is given, at a school level, on work completed in each of the two years of English; many of these assignments lead directly to the kinds of assessment that are part of the international examination. The IB Exam in English is based on a 70% External Assessment and a 30% internally arranged oral assessment. The 70% assessment is based on 50% for a four-hour written exam; a commentary on one of two sight passages, and one essay question on the Groups of Work. The other 20% is given on one written assignment on World Literature that is externally assessed. The 30% oral examination, based on Detailed Study and School's Free Choices, is assessed at the school level and externally moderated.

ENGLISH 12 Advanced (ENG12ADV) Code - 004252

It is expected that students enrolled in these courses are self-motivated, disciplined and interested in pursuing English courses at a more challenging and intellectual level. In both grades, emphasis is placed on the development of critical thinking, analytical and creative writing, and discussion. Novels, short stories, poetry, plays and essays are studied. In these courses main focuses are the appreciation of literature, encouragement of independent study and the development of competency in research.

ENG 12 African Heritage (ENGAH12) - Academic Course Code – 004258

This course is designed to prepare students to meet key stage outcomes for Grade 12: Speaking and Listening: Reading and Viewing: and Writing and Other Ways of Representing, through a variety of learning and teaching strategies, and assessment practices. This course will engage students in a critical and analytical response to numerous literary texts, with a major focus on African heritage, including: short fiction, the novel, poetry, spoken word, and various elements of African oral traditions. Students are given increased opportunities to demonstrate their ability as thoughtful, critical readers/viewers of literary and other texts. Effective argument is emphasized in oral, written forms and other ways of

representing English 12: African Heritage fulfills the English language arts requirements for graduation. All students will write the Nova Scotia Provincial Exam.

ENG/COMMUNICATION 12 (ECM12) Graduation - Course Code - 004164

The course focuses primarily on oral communication, writing skills and reading. Students will examine the role of the media in their lives.

FRENCH SECOND LANGUAGE

CORE FRENCH 10 (FR10) - Academic Course Code - 007097

This course is a continuation of the Grade 9 academic program. It includes a study of the basic tenses, grammatical points, and reading, using a theme-based approach. Emphasis is placed on oral skill to encourage the students to use the language daily.

IB French (offered in grade 11)

Course Code 12SL (IBFRSL12) - 007203

Course Code 12 HL (IBFRHL12) - 007201

The French Language IB program is communicative in that it focuses principally on interaction between speakers and writers of the target language. The main aim of the program is to prepare the learner to use the language appropriately in a range of situations and contexts and for a variety of purposes. The skills of listening, speaking, reading, and writing will be taught and developed through the study of a wide range of oral and written texts of different styles and registers. Equal emphasis will be given to the teaching of these four skills. Authentic materials will be used wherever possible and students will be given the maximum exposure to the French language.

The four language skills listed above will be integrated as far as possible with the preparation and presentation of all learning activities and assessment tasks. In particular, the continuous assessment of oral work will be integrated into regular classroom activities. The teaching of an appropriate range of grammatical structures will also be integrated as far as possible with the study of themes and texts and the acquisition of skills.

The aims of the French Language B program are to:

- develop the ability to communicate accurately and effectively in speech and in writing within a range of contexts;
- develop the ability to understand the language demands of transactional and social contacts;
- provide students with a sound linguistic base for further study, work and leisure;
- offer insights into the culture of the countries where the language is spoken;
- provide the opportunity for enjoyment, creativity and intellectual stimulation.

CORE FRENCH 11 (FR11) - Academic Course Code - 007098

This course builds on the vocabulary and language structures already learned in Grade 10 and introduces extensive new material in the form of conversation themes. Emphasis is placed on oral skills to encourage the students to use the language.

CORE FRENCH 12 (FR12) - Academic Course Code - 007099

The text *Voyages 3* aims at provoking student discussion, expanding vocabulary and grammatical structures. To supplement the text, there are oral presentations, improvisations, short stories and poetry.

RÉPERETOIRE DES COURS EN IMMERSION

LE CERTIFICAT D'IMMERSION

Pour recevoir le certificat d'immersion, les élèves doivent avoir suivi un programme d'immersion précoce ou d'immersion tardive avant leur entrée au secondaire deuxième cycle. Au secondaire deuxième cycle, les élèves doivent:

- suivre le cours de français en 10^{ième}, 11^{ième} et 12^{ième} année;
- suivre, chaque année, au minimum 2 cours dont la langue d'enseignement est le français (non compris le cours de français de base);
- suivre en total 9 cours dont la langue d'enseignement est le français.

SCIENCES 10 IMM (SCS10IM) Cote du cours: 011178

Ce cours est conçu de façon à permettre à l'élève d'apprécier et de comprendre les liens entre les sciences, la technologie, la société et l'environnement. Il offre aux élèves les connaissances et les habiletés nécessaires pour entreprendre des cours spécialisés en physique, en chimie et en biologie en 11^{ième} et 12^{ième} année.

Ce cours comprend les quatre modules suivants:

- la durabilité des écosystèmes
- les réactions chimiques
- les changements climatiques
- le mouvement

CHIMIE 11 IMM (CH11IM) - Cote du cours: 011324

Préalable fortement recommandé: SCIENCES 10

Le cours de Chimie 11 comprend les modules suivants:

- la diversité de la matière est due à sa structure atomique et à sa périodicité; la quantification de l'énergie de l'atome l'hydrogène selon Bohr est abordée dans le module ainsi que les quatre nombres quantiques;
- les liaisons chimiques dans la matière; liaison ionique, covalente coordinante et polarité des liaisons ainsi que les liaisons intermoléculaires et métalliques. Les rapports quantitatifs dans la nomenclature les formules;
- la matière sous forme de solution, d'acides de bases et de gaz.

HISTOIRE ANCIENNE MED 10 IMM (HISANC10IM) Cote du cours: 011325

Ce cours permet aux élèves de développer une compréhension du concept de civilisation en étudiant l'histoire de la civilisation occidentale dès l'origine de l'homme et en étudiant les diverses civilisations qui ont façonné le monde contemporain. L'enseignant choisira l'approche ou une combinaison des approches suggérées qui répondra le mieux aux besoins des élèves. L'approche chronologique permet l'étude des thèmes depuis leurs origines jusqu'aux années 1500 tout en établissant leurs rapports avec les situations présentes. Les six grands thèmes sont l'homme préhistorique, les civilisations anciennes, la Grèce comme première civilisation occidentale, la domination de Rome sur le monde occidentale, le Moyen-Âge, la Renaissance et la Réforme.

HISTOIRE DU CANADA 11 IMM_INT (HC11INIM) Cote du cours: 012332

Ce cours utilise une approche thématique pour examiner l'histoire du Canada de la préhistoire (i.e. l'arrivée des "premiers peuples") jusqu'au présent. Chaque élève doit aussi préparer une recherche indépendante qui vaut entre 15 et 20 pourcent de l'évaluation finale. Le thème récurrent est l'analyse de la façon que les situations Canadiennes d'aujourd'hui peuvent tracer leurs origines au passé. Ce cours se penchera donc sur les thèmes suivants :

1. La mondialisation: Quelle è été la place du Canada dans la communauté des nations et quel devait être son rôle?
2. Le développement: Comment l'économie canadienne a-t-elle évolué en vue de répondre aux besoins et aux aspirations de tous les peuples du Canada?
3. Le gouvernement: Les gouvernements du Canada, passés et présents, ont-ils été à l'image de la société canadienne?
4. La souveraineté: En quoi les luttes pour la souveraineté ont-elles défini le Canada et comment continuent-elles à le définir?
5. La justice: Dans quelle mesure le Canada a-t-il lutté en faveur d'une société juste et équitable?

GEOGRAPHIE PLANETAIRE 12 IMM (GP12IM) Cote du cours: 012399

Le programme d'études de géographie planétaire a la particularité de traiter de problématiques et de défis actuels qui préoccupent l'ensemble de la planète. Cinq grands thèmes sont abordés: la population, l'alimentation, l'environnement, la réalité géopolitique et les perspectives d'avenir. Le cours se veut une réflexion individuelle qui aboutit à une prise de position personnelle de l'apprenant face à sa responsabilité individuelle en tant que citoyen de la Terre mais aborde aussi la question de la responsabilisation collective face aux défis planétaires. Pour ce faire, l'interdépendance entre les nations et la qualité de la vie en fonction des milieux géographiques constitue la trame de fond de l'ensemble du programme d'études.

FRANCAIS IMMERSION 10 (FR10IM) (Cote du cours: 007106)

Le cours de français de 10^{ième} année met l'accent sur le développement de la langue orale (écoute et expression orale) dans des contextes variés. Les élèves sont placés dans des situations de communication orale significatives qui leur permettent de découvrir et de communiquer l'information ainsi que de réagir à une variété de situations et de textes tels que des conversations, des entrevues, des documentaires, des articles, des poèmes, des nouvelles et des romans. Les élèves sont aussi amenés à rédiger des lettres, des textes informatifs et des textes expressifs et explorent aussi des formes alternatives d'expression et de représentation.

FRANCAIS IMMERSION 11 (FR11IM) Cote du cours: 007107

En 11^{ième} année, les élèves continuent à écouter des textes variés et à s'exprimer oralement dans divers contextes. Les élèves participent à des activités d'improvisation et à plusieurs formes d'expression dramatique. La lecture comprend des faits divers, des biographies, des poèmes, des nouvelles, des contes, des rapports et des travaux de recherche. Ils explorent aussi des formes alternatives d'expression et de représentation.

Ceci est un cours obligatoire.

FRANCAIS IMMERSION 12 (FR12IM) Cote du cours: 007108

En 12^{ième} année, les élèves approfondissent leurs connaissances et se servent d'habiletés langagières plus complexes et évoluées. Les pratiques de lecture comprennent une variété de genres littéraires et non littéraires y compris le théâtre. Les élèves rédigent des textes informatifs, expressifs, narratifs et argumentatifs. Ils explorent aussi des formes alternatives d'expression et de représentation.

Alternate Language

Gaelic 10 (GAE10) Academic Course Code: 007014

This course is a seamless continuation of the Gr. 9 Core Gaelic Language program. Using theme based approaches including Music, Dance and Folklore, the course focuses equally on the four major components for language acquisition; speaking, listening, reading and writing. Emphasis is placed on Gaelic in NS and promotes both the historical and contemporary aspects of the exciting culture and environment we live in.

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 out post-secondary instructors to ensure they have the required math program needed for their chosen area of study. Please consult with a guidance counsellor if you need further direction. Generally, most students will be pursuing the regular academic stream that would include Math 10, Math 11 and Math 12. These are university preparatory Courses taken when academic math is required for the course of study but advanced math skills are not mandatory. Check admissions requirements carefully by visiting the websites of individual institutions. For those students intending to follow studies in the Sciences, Computer Sciences, and most medical fields they will require Math 10, Math 11 and Pre-Calculus Math 11 (both taken in Grade 11), and Pre- Calculus 12. Calculus 12 is also recommended but not required. IB students may take Calculus 12 as an extra math course (IB Math is known as the "Calculus Math") – Calculus begins in October of the grade 12 year. IB Math is accepted for any University Program, including Science and Engineering programs. The Mathematics at Work stream (previously known as the Foundation 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 great difficulty with mathematics in junior high school. Math 10 Essentials is intended for students wanting to satisfy the two mathematics course requirements for graduation. Math 10 Essentials is followed the next year with Math 11 Essentials. It is important for students to determine the math program that is appropriate to both their capabilities and their needs following high school. Please consult post-secondary admission requirements early in your high school years. It is recommended that students registering for advanced level courses be independent learners, have a solid foundation in Algebra skills, be able to learn at a faster pace, and have a strong work ethic.

MATH ESSENTIALS 10 (MTHE10) 1 credit Graduation – Course Code 008189

This course will be presented as a 110-hour course.

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 pre-requisites. 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 (MTW10) 1 credit Graduation - Course Code 008018

This course will be presented as a 110-hour course.

Mathematics at Work 10 is an introductory high school mathematics course which demonstrates the application and importance of key math skills.

The new 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 (MT10) - Academic 2.0 Credits Course Code 008017

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 and advanced 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.

All students following the academic or advanced pathway will need to take Mathematics 10 followed by Mathematics 11. These courses are to be taken consecutively, not concurrently.

There are two typical pathways for students who successfully complete Mathematics 10:

For those students intending to follow the academic pathway, Mathematics 10 will be followed 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 advanced 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.

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 (MTHE11) Graduation - Course Code 008191

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. this course and Math Essentials 10 satisfy the graduation requirement of having two mathematics credits. **A formal provincial exam will be written at the conclusion.**

MATHEMATICS AT WORK 12 (MTW12) - Graduation Course Code 008237

Prerequisite: Successful completion of Mathematics at Work 10 or Mathematics 10. This course will be presented as a 110-hour course. Mathematics 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.) Some students who successfully complete Mathematics at Work 11 may choose to take Mathematics for the Workplace 12. 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 (MT11) - Academic Course Code 008067

This course is the basic mathematics course for students intending to study at university. Topics covered will be trigonometry, systems of equations, statistics, and an independent study unit. Depending upon the field of study the student will wish to pursue, he or she will be required to complete different courses for his or her Grade 12. Please see the table at the end of this unit. It is recommended that students in this course should have at least 60% in Academic Math 10.

PRE-CALCULUS 11 (PCAL11) - Advanced Course Code: 008829 |

Prerequisite: Successful completion of Mathematics 11.

This course will be presented as a 110-hour 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. The typical pathway for students who successfully complete Pre-calculus 11 is Pre-calculus 12. (Courses in the Pre-calculus pathway are designed to provide students with the mathematical understandings and critical-thinking skills identified for post-secondary studies in programs that require the study of theoretical calculus.) Some students who successfully complete Pre-calculus 11 may choose to take Mathematics 12. Alternatively, students who successfully complete Pre-calculus 11 may choose to select a graduation credit in grade 12. 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.) Some students who successfully complete Pre-calculus 11 may choose to take Mathematics 12. Alternatively, students who successfully complete Pre-calculus 11 may choose to select a graduation credit in grade 12. 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 quadratic functions.

IB MATHEMATICS 11 (IBMATH11) Course Code - 008203

IB MATHEMATICS 12 SL (IBMAT12SL) Course Code - 008208

This is a two-year standard level course known as the “calculus math” which covers all of the Nova Scotia senior high curriculum outcomes as well as an in-depth study of the following topics: irrational numbers, statistics and probability theory, matrices, vectors and analytic geometry. A minimum of 35 hours of class time is spent on the study of calculus (both differential and integral).

The final exam in the standard level comprises 80% of the external IB grade for the course, with the remaining 20% coming from portfolio assignments given throughout the grade eleven and twelve years.

Prerequisite Advanced Math 11

MATHEMATICS AT WORK 12 (MTW12) Graduation – Course Code 008237

This course will work toward improving the student’s mathematical knowledge base, and most aspects of the course will be directly related to math that is needed in areas such as carpentry, cosmetology, welding, forestry, electrical, plumbing, auto mechanics, electronic technology, refrigeration, and masonry. This course will be modular and project-oriented to reflect the type of learning that will occur if students move on to N.S. Community College. The course will include measurement, math in the workplace investigation, ratio, rate, proportion and a major project. MTW12 will meet one of the 2 others from mathematics, science and/or technology requirements for graduation. This course provides a year-three course option for students who have earned the following credits: Mathematics Foundations 10 and Mathematics Foundations 11 or Mathematics Essentials 10 and Mathematics Essentials 11. This course will be modular and project-oriented to reflect the type of learning that will occur if students move on to N.S. Community College. The course will include measurement, math in the workplace investigation, ratio, rate, proportion and a major project.

MATHEMATICS 12 (MT12) - Academic Course Code 008232

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. Students interested in Science will take this course and a Pre-Calculus 12 course. 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 (PCAL1512) Advanced - Course Code 008233

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 (CAL12) - Advanced Course Code - 008127

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.

Post-Secondary Requirements	PATH #1 COMMUNITY COLLEGE – MOST TRADES	PATH #2 COMMUNITY COLLEGE BUSINESS & HEALTH PROGRAMS UNIVERSITY -ARTS, APPLIED SCIENCE & MOST BUSINESS PROGRAMS	PATH #3 COMMUNITY COLLEGE HIGHLY TECHNICAL PROGRAMS UNIVERSITY – SCIENCE & ENGINEERING PROGRAMS & ALL OTHER SCIENCE PROGRAMS	PATH #4 ALL POST SECONDARY PROGRAMS	PATH #5 ALL POST SECONDARY PROGRAMS
GRADE 10	MATHEMATICS AT WORK 10	MATH 10	MATH 10	MATH 10	MATH 10 ADV MATH 11
GRADE 11	MATH FN 11	MATH 11	ADV MATH 11 ADV MATH 12	ADV MATH 11 ADV MATH 12	IB MATH 11
GRADE 12	MATH FN 12	MATH 12	PRE-CALULUS 12	PRE-CALCULUS 12 CALCULUS 12	IB MATH 12 *CALCULUS 12
	SOME UNIVERSITIES ALLOW ENTRANCE TO BACHELOR OF ARTS WITH FN MATH – CHECK INDIVIDUAL CALENDARS/ WEBSITES	APPLIED SCIENCES INCLUDE-KINETICS, NUTRITION, NURSING		SOME UNIVERSITIES REQUIRE CALCULUS FOR SCIENCE/ ENGINEERING AND BUSINESS PROGRAMS (ONTARIO) – CHECK INDIVIDUAL CALENDARS/ WEBSITES	CALCULUS 12 IS OPTIONAL , ONLY REQUIRED (ONTARIO)

SCIENCE

SCIENCE 10 (SCI10) – Academic Course Code - 011249

An introductory science course combining chemistry, physics and biology concepts related to science, technology and society. Scientific concepts and skills are taught in a social context which encourages active and meaningful learning among students including oral presentations, group work/labs.

BIOLOGY 11 (BIOL11) – Academic Course Code - 011153

This course emphasizes the diversity of life and flow of energy in the biosphere ranging in focus from the cellular level to the ecological level. Topics include:

Biodiversity (including Microbiology) Energy Flow and Cellular Matter, Human Systems and their connections to other organisms. This course is needed for Bio 12.

ADVANCED BIOLOGY 11 (BIOL11AD) – Advanced Course Code - 011155

In Advanced Biology 11, students are expected to engage in opportunities to construct major concepts in biology and to demonstrate and apply these concepts in new and novel situations. The content topics for this course should parallel the Biology 11 course, but the curriculum should be more investigative nature and provide for greater depth of treatment. Students should also have more opportunities for independent study of certain biology topics.

IB BIOLOGY SL 12 (IBBIO12SL) – 011306 (taken in one year)

IB BIOLOGY HL 12 (IBBIO12HL) – 011296 (taken over 2 years)

Biology is the study of living organisms, applying the techniques and approach of the experimental sciences. This study is undertaken at a variety of levels from the molecular to that of the biosphere, each with its own distinctive approaches and methods. However, by the end of the course the student should have developed an appreciation of the interactions among these levels, and of organisms as functioning entities within the biosphere.

The design of the International Baccalaureate Biology Standard Level program seeks to incorporate recent scientific thinking in many countries. Curriculum content has been selected with the realization that because biology is continuously and rapidly progressing both in breadth and depth, the contemporary biology curriculum can never be considered to be stable. Scientific method is best developed and understood through personal experience, therefore the emphasis throughout the program is on providing students with ample opportunities for research and discovery.

Topics: Cell Structure and Function

1. Cell Chemistry
2. Theoretical Genetics
3. Applied Genetics
4. DNA Structure and Function
5. Ecology
6. Human Physiology

BIOLOGY 12 (BIOL12) – Academic Course Code - 011156

Grade 12 Biology emphasizes cell structure and function from the molecular level. Physiological regulation, genetics and evolution will also be discussed. Biology 12 consists of four units of study. Systems regulating change in humans and other organisms; reproduction and development; chromosomes, genes and DNA; change in populations, communities, and species. Prerequisite Biology 11.

ADVANCED BIOLOGY 12 (BIOL12AD) Course Code - 011011

A more challenging and rigorous approach to Biology 12. Students are encouraged and expected to do individual research.

Prerequisite: A Grade 11 Biology 85%-mark value.

PHYSICS 11 (PHY11) Course Code - 011150

Physics is the branch of knowledge that describes the relationship between matter and energy and studies the processes and structures of the natural world. Students taking Physics will be expected to use problem solving approaches to investigate and understand scientific concepts. Topics include kinematics (motion), dynamics (forces), energy, momentum and waves.

Course Recommendations:

Successful completion of both MAT10 and SCI10 is expected with a minimum average of 60% in both courses, and students should be enrolled in MAT11 or ADV MAT11.

ADVANCED PHYSICS 11 (PHY11AD) Course Code -011020

Advanced Physics 11 is an enriched version of PHY11. The course studies the same core topics as PHY11 but in greater depth and with more abstract problem solving. Students taking this course should have a high aptitude for mathematics and the physical sciences. Advanced Physics 11 is good preparation for any student planning on studying science in university.

Course Recommendations:

Successful completion of both MAT10 and SCI10 is expected with a minimum average of 75 % in both courses, and students should be enrolled in MAT11 or ADVMAT11.

IB Physics**IB PHYSICS 11 (IBPHY11) - 011299****IB PHYSICS SL 12 (IBPHY12SL) - 011308****IB PHYSICS HL 12 (IBPHY12HL) - 001300**

Physics is the most fundamental of the experimental sciences, as it seeks to explain the universe itself, from the very smallest particles to the vast distances between galaxies. The core of Physics IB material includes the following topics: 1) Physics and physical measurement, 2) Mechanics, 3) Thermal Physics, 4) Oscillations and Waves, 5) Electric Currents 6) Fields and Forces 7) Atomic and Nuclear Physics 8) Energy, Power and Climate Change. For Standard Level Physics, there are 2 additional option topics that need to be covered, 40 hours of lab work and a Group 4 project. For Higher Level Physics, there are 6 topics from the core explored at higher level, 2 option topics that need to be covered, 60 hours of lab work and a Group 4 project. All internal IB assessment is based on lab work. External IB assessment consists of an exam written in three parts in May of the second year.

CHEMISTRY 11 (CHE1511) - Academic Course Code - 011338

This course introduces students to science through chemistry in a way that will provide both a worthwhile and interesting terminal course and a foundation for future study. Topics included are the evolution of atomic theory, structure of the atom, bonding, nomenclature, chemical reactions, mole concept, stoichiometry, and organic chemistry. This course would include both classroom instruction and laboratory investigations. Math 10 and Science 10 are prerequisites for Chemistry 11.

ADVANCED CHEMISTRY 11 (CHE1511AD) Course Code - 011336

This is an in-depth introductory chemistry course designed for the student with a high aptitude of physical science and math. This course is intended for the university bound student who is science oriented. Topics included are the evolution of atomic theory, structure of the atom, bonding, nomenclature, chemical reactions, mole concept, stoichiometry, and organic chemistry. The course would include both classroom instruction and laboratory investigations. Prerequisites: Math 10 and Science 10 are prerequisites for Chemistry 11.

IB Chemistry**IB CHEMISTRY 11 (IBCHE11) - 011297****IB CHEMISTRY SL 12 (IBCHE12SL) - 011307****IB CHEMISTRY HL 12 (IBCHE12HL) - 011298**

This is a two-year course. The approach is traditional, using lecture methods with demonstrations, visual aids, and discussion. Material is covered quickly, and therefore, the onus is on the student to keep up with the volume of work. Lab work is intensive. Over 40 experiments are completed in the program. Practical skills, such as gravimetric and volumetric analysis, gas and vapour manipulation, physical measurement, measurements, and spectrophotometry, are covered.

The basic outline of the course includes:

1. Basic principles, terminology, formulae, equations, stoichiometry
2. Atomic theory
3. Structure and bonding
4. Energetics
5. State of matter
6. Physical equilibrium
7. Chemical equilibrium, including REDOX, acids, and bases
8. Kinetics
9. Periodicity

CHEMISTRY 12 (CHE1512) - Academic Course Code - 011339

This course is a continuation of the CHE 11 and is designed for those who have mastered the concepts provided in the grade eleven chemistry program. It is designed to provide students with the necessary background to pursue further studies in science. Topics included are solutions, Kinetics, Acids and Bases, Redox reactions. The course would include both classroom instruction and laboratory investigations. Prerequisites: A mark of at least 60% in both Math 11 and Chemistry 11 is required for Chemistry 12.

ADVANCED CHEMISTRY 12 (CHE1512AD) Course Code - 011337

This is an honors level chemistry course designed for those students who have successfully completed Chemistry 11 Academic. A research project and presentations are integral parts of this course. The content topics for this course parallel those of Chemistry 12, but provide for a greater depth of treatment. Prerequisites: Math 11-75% and Chemistry 11-85%.

AGRICULTURE 11 (AGRIC11) - Academic Course Code - 011224

An academic Grade 11 science course. Topics covered include basic animal production, (beef, dairy, poultry, swine, sheep), as well as soils, maple syrup and farm safety. Field trips are taken to various farms.

OCEANS 11 (OCN11Y11) - Academic Course Code – 011214

Oceans 11 offers students the opportunity to explore aspects of global and local oceanography and current ocean-related issues. The course is comprised of four main units:

1. Marine Geology
2. Marine Biology
3. Aquaculture
4. Coastal Environments

Oceans 11 is designed as a holistic approach to the oceans, with a major emphasis on the science of the oceans. Social, political, economic, and environmental issues are interwoven with the core science content. Course material will be supplemented with laboratory exercises, computer related activities, field trips, and independent studies.

Prerequisite - Grade 10 Science

PHYSICS 12 (PHY12) Course Code - 011152

Physics is the branch of knowledge that describes the relations between matter and energy and studies the processes and structures of the natural world. Students taking Physics will be expected to use problem-solving approaches to investigate and understand scientific concepts. PHY12 topics include the study of motion in two dimensions, energy, gravitation, electrostatics, circuits, magnetism, quantum physics and radioactivity. 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. Topics include: Force, Motion, Work and Energy, Fields, waves and Modern Physics, and Radioactivity.

Course Recommendations: Successful completion PHY11 or ADVPHY11 and MAT11 or ADVMAT11 is expected with a minimum average of 60% in each course, and students should be enrolled in MAT12, ADVMAT12, Pre-Calculus, and/or Calculus.

ADVANCED PHYSICS 12 (PHYS12AD) Course Code -011022

Advanced Physics 12 is an enriched version of PHY12. The course studies the same core topics as PHY12 but in greater depth and with more abstract problem solving. Students taking this course should have a high aptitude for mathematics and the physical sciences. Advanced Physics 12 is good preparation for any student planning on studying the physical sciences in university. Advanced Physics 12 will include an independent scientific research project.

Course Recommendations:

Successful completion PHY11 or ADVPHY11 and MAT11 or ADVMAT11 is expected with a minimum average of 70% in each course, and students should be enrolled in MAT12, ADVMAT12, Pre-Calculus, and/or Calculus

GEOLOGY 12 (GEOL12) - Academic Course Code – 011211

The course is designed as a conceptual and holistic approach to earth sciences and the environment with strong support from classroom and laboratory exercises. The six units of study are:

1. Nature of Geology
2. Historical Geology (geological time; fossils)
3. Earth Materials (minerals; rocks)
4. Internal Processes (Earth's interior; plate tectonics)
5. Surface Processes (weathering; erosion; soil; groundwater; surface water; glaciers)
6. Environmental Geology (geological hazards; mineral/energy resources; waste management; contamination; etc.)
7. Planetary Geology - (Solar System)

Geology 12 is designed as a conceptual and holistic approach to earth science and the environment with strong support from classroom and laboratory exercises. Course material will be supplemented with field trips, classroom discussions over current environmental issues and independent studies. (This is a university preparatory course.)

FOOD SCIENCE 12 (FDSCI12) - Academic Course Code 011026

Food Science 12 is an introductory course in the human nutrition field and is intended to provide students with a new appreciation for food - and much more.

This course:

- can be applied to daily experience
- which will bring more meaning to school work;
- will use the scientific method to study the biological and chemical basics for nutrition, food preparation, preservation and processing;
- will assist in the development of team skills. As teams prepare and conduct experiments, the students will learn more about working cooperatively;
- Enables students to become familiar with a laboratory setting.

Food Science 12 consists of six units of study: (This is a university preparatory course)

- Unit 1: The World of Food Science
- Unit 2: The Food Science Lab
- Unit 3: Chemistry Fundamentals
- Unit 4: The Science of Nutrition
- Unit 5: The Chemistry of Food
- Unit 6: The Microbiology of Food Processing

What Sciences Do I Take??

This is intended as a guide. Please refer to the post-secondary school's calendar of studies or website for specific requirements.

If you plan to attend a **SCIENCE** program, **two** science courses are required, either biology, physics or chemistry.

If you plan to study:	Register for:
Health Related Fields Environmental Studies Oceanography Pharmacy	Biology and Chemistry
Computer Related Programs Technical programs at Community College Anything Electrical Engineering/Physiotherapy	Physics and Chemistry OR Physics and Biology
Dentistry Medicine	Two of Biology, Chemistry and Physics (Three if schedule allows)

ONCE AGAIN: PLEASE REFER TO SPECIFIC SCHOOL CALENDARS FOR PROGRAM REQUIREMENTS

SOCIAL STUDIES

Social Studies courses provide students with a body of knowledge, skills and understanding which will enable them to comprehend and contribute to the social, cultural, economic and political environments within which they will function. Courses emphasize higher order thinking skills and group work in order to develop better thinkers and problem solvers.

GEOGRAPHY 10 (GEOG10) - Academic Course Code - 012223

A study of the processes which have contributed and continue to contribute to the shaping of our physical environment.

IB History

IB HISTORY 11 (IBHIST11) - 012379

IB HISTORY SL 12 (IBHIS12SL) - 012390

IB HISTORY HL 12 (IBHIS12HL) - 012380

History is the attempt made by professional historians to record and reconstruct the past through the study of evidence derived from a variety of sources. It is concerned with the study of Man in Society in the widest context: political, social, economic, and cultural. It is concerned both with trends and developments, with change and continuity through time, and with unique and specific events. History can never be objective in an absolute sense and the contribution of every historian must contain a subjective element. In so far as history is "a dialogue between the present and the past," every generation must rewrite its own history in the light of new evidence and under the influences of its particular attitudes and prejudices. History is also part science, in its approach to evidence, and part art, in recording and communicating its findings. Historians are partly painstaking scientific researchers and partly creative artists. These are some of the basic features of history that candidates studying it for the International Baccalaureate should be capable of understanding and recognizing. The study involves the late 19th century to modern day through the study of: (a) Causes, practices, and effects of war; (b) Decolonisation; (c) Rise of single party states; and (d) East-West relations after 1945. In addition to regular testing procedures, there are 750-1000 word papers required throughout the course and an internal assessment due in the winter of the student's second year. There will be an in-school examination process and the IB offers a final external exam, at both the higher and standard level, for which all students will be expected to prepare. The higher level option in history requires students to develop a more comprehensive understanding of a wider variety of regional historical topics.

Canadian History or Gaelic Studies are obligatory for graduation

CANADIAN HISTORY 11 (CHS11) - Academic Course Code - 012330

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 in an attempt 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.

GAELIC STUDIES 11 (GAEST11) - Academic Course Code - 012340

Gaelic Studies 11 affirms the language history, tradition, and arts of Nova Scotia and Canadian Gaels, and explores the continuing influence of the Gaelic culture on life in local, national and global contexts. Learning experiences in this course will enable all students to develop knowledge and understanding of and respect for the unique nature of the

Gaelic culture. In students of Gaelic ancestry, it will foster a positive self-image and an understanding of their identity and roots.

Gaelic Studies 11 provides opportunities for students to experience the diversity of expression of many aspects of Gaelic culture and to recognize the values inherent in Gaelic community life. It presents unique opportunities to take learning beyond the classroom to include community and industry.

The course focuses on history and identify, oral tradition and literature, and the arts of the Gaels and provides opportunities for students to pursue a specific area of interest or strength through project work.

GEOGRAPHY 11 (GEOG11) - Academic (1 credit) Course Code - 012019

Geography 11 covers contemporary Canadian Geography with its regional and cultural diversities and includes a systematic examination of such general characteristics as Canada's vast area, its northern character, its climate, and its economic development. In the first half of the course, Canada is studied both in the context of its continental North American setting and through its component regions and sub regions. The second half provides a thematic treatment of such topics as pollution, urbanization, resource development, changing technology, and rural life.

ACCOUNTING 12 ACADEMIC (ACA12) Course Code 002003

As a result of their learning experiences in Accounting 12, students will be expected to:

1. complete the accounting cycle for a merchandising company in accordance with Generally Accepted Accounting Principles
2. journalize transactions using the appropriate special journals
3. prepare, analyze, and interpret financial statements
4. analyze a company's liquidity, solvency, and return on investment by applying the components of financial statement analysis
5. distinguish the accounting elements of various forms of business ownership
6. investigate and learn about the various career opportunities available in the accounting professions and discover how accounting relates to all career fields.

GLOBAL GEOGRAPHY 12 (GGS12) - Academic Course Code - 012209

An examination of major themes in the interaction of humans with their environment. In addition, there will be a focus on global cultural geography and its diversity.

GLOBAL HISTORY 12 (HGS12) - Academic Course Code - 012169

An examination of major themes of the Post World War 2 Era including East-West, The Role of Super Powers, North-South, Economic Disparity, Justice, Societal and Technological Change.

*Global Geography 12 or Global History 12 or Advanced Global History is compulsory for graduation.

SOCIOLOGY 12 ACADEMIC (SOC12AC) Course Code - 012420

An introduction to the basic concepts of sociology, psychology and their application to Canadian society and anthropology.

LAW 12 (LAW12Y11) - Academic Course Code - 012028

This course is a university preparatory course. Students will be introduced to criminal and civil law. The course is designed to provide students with:

- a) a knowledge of law and its functions in society
- b) the opportunity to develop skills and attitudes that will enable students to understand the process of law.

Topics to be covered will be:

- 1) Pre-trial requirements
- 2) Trial Procedure
- 3) Sentencing, appeals, and prisons

- 4) The Criminal Code
- 5) Civil Procedure and Compensation
- 6) Negligence and Unintentional Tort
- 7) Intentional Torts
- 8) Property Law, Landlord and Tenant

Theory of Knowledge IB**IB THEORY OF KNOWLEDGE 11 (IBTOK11) - 012324****IB THEORY OF KNOWLEDGE 12 (IBTOK12) - 012382**

This course is obligatory for every candidate for the Diploma because it is a key element in the educational philosophy of the IB. Its purpose is to stimulate critical reflection upon the knowledge and the experience of students both in and outside the classroom. The course is thus "philosophical" in the sense that it is meant to encourage students to acquire a critical awareness of what they and others know through analyzing concepts and arguments as well as the bases of value judgments, which all human beings have to make.

The aims of the Theory of Knowledge program are to lead students to:

- engage in reflection on and questioning of the bases of knowledge and experience;
- be aware of subjective and ideological biases;
- develop a personal mode of thought based on critical examination of evidence and argument;
- formulate rational arguments

O2 Options and Opportunities Program

The Options and Opportunities 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 career strands 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.

Required courses for students completing the O2 program are as follows:

- Career Development 10
- Career Development 11
- Community Based Learning 10
- Workplace Health and Safety 11
- 2 Grade 11 Co-op Ed. Credits
- 2 Grade 12 Co-op Ed. Credits

In addition to the courses listed above students will complete a number of co-op placements resulting in students earning co-op credits which can be put towards their graduation credit requirements.

Students will explore various trades and technology programs through both their co-op placements, O2 courses and other courses offerings available to all students. There are a number of different O2 interest strands which students may choose to explore while completing their O2 program. In these interest strands students may take a number of different courses to support and explore their skill development and career planning.

Potential Course Offerings to Support the O² Program		
Trades & Technology	Food Service	Health and Human Services
Construction Technology	Food Technology 10	Child Studies
Electro Technology	Food Preparation	Food and Nutrition 10
Production Technology	Food and Nutrition 10	Food and Nutrition 12
Energy Power & Transportation	Food and Nutrition 12	Business Technology
Business Technology	Business Technology	Communication Technology
Communication Technology	Communication Technology	Entrepreneurship
Entrepreneurship	Entrepreneurship	Food Technology 10
Exploring Technology	Food Service 12	Food Preparation 10

Co-op Ed. Courses

CO-OPERATIVE EDUCATION 11 (COOP10) - Open Course Code - 149060

CO-OPERATIVE EDUCATION 11 (COOPAC11) - Academic Course Code - 149058

CO-OPERATIVE EDUCATION 12 (COPO2OP12) - Open Course Code - 149063

CO-OPERATIVE EDUCATION 12 (COOPAC12) - Academic Course Code - 149061

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 a minimum of both 25 hours in school and 100 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, Canada Pension. They are expected to complete a professional portfolio (hard copy and digital), 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. Your coordinator has many placement suggestions for those students who do not have contacts. 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). The student placement is supported by a learning and evaluation plan jointly developed by the student, coordinator and mentor.

Co-operative Education is open to students 16 years of age or older. Student interns have been placed with private and public sector organizations such as dental offices, veterinary clinics, banks, construction companies, car dealerships, hotels and restaurants, fire and police services, non-profit organizations – the opportunities are endless. Students who register for Co-op on the course selection form will be contacted and given an application that must be signed by their parent/guardian and another community member/school teacher reference. Each student will be required to attend a selection interview and will be informed of the decision prior to the end of the school year. Once accepted into the Coop program, the student is making a firm commitment to this course for the following year

CAREER DEVELOPMENT 10 (CD10) - Open Course Code 149128

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 in Career Development 10 develop their abilities to communicate, think, and deal with their feelings. They 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:

- Module 1: Personal Development
- Module 2: Career Awareness
- Module 3: Workplace Readiness
- Module 4: Financial Management
- Module 5: Life Work Portfolio

COMMUNITY BASED LEARNING 10 (CBL10) - Open Course Code 149136 1 Credit

Community-based learning is a partnership involving the student, families, the school and the community, with each of the partners sharing the responsibility for the student's learning experience. Students benefit from the expertise, talent, and resources of community-based service organizations, agencies, business, industry, citizen groups, entrepreneurs, and parents and gain opportunities to apply and enhance, in real-life contexts, knowledge, skills, and attitudes acquired through their work in school.

CAREER DEVELOPMENT 11 (CDV11) - Open Course Code 149170 - 1 Credit

Career Development 11 builds on the grade 10 career development curriculum. Units include career awareness, work cultures, financial management and lifework Portfolio.

WORKPLACE HEALTH_SAFETY 11 (WRKHS11) - Open Course Code 149104 - ½ Credit

Workplace Health/Safety 11 focuses on the knowledge, skills, and attitudes necessary to create safety in the workplace.

Module 1 - Fundamentals of Workplace Health and Safety, provides opportunities for students to:

- examine major components of the Occupational Health and Safety Act
- identify and evaluate hazardous workplace situations and identify an appropriate response

- recognize employer and worker rights and responsibilities to establish and maintain a safe workplace
- achieve necessary standards for certification of WHMIS training
- develop proactive attitudes toward safety in the workplace

Module 2 - A Hazard Assessment Project - Students develop and implement a hazard assessment plan to identify potential safety hazards in the workplace and propose appropriate action.

SENIOR HIGH FINE ARTS EDUCATION

MUSIC 10 (MUSIC10) - Academic - Instrumental Band Course Code - 009004

This course is designed for students that have technical background in their instrument (Grade 9 Music, Private Lessons, involvement in a Junior High Ensemble) and are interested in performing in a band that rehearses within the regular school schedule. Students will perform a wide variety of music styles and will be taught various instrumental techniques to facilitate their performances. Instruments in Concert Band: flute, oboe, clarinet, bass clarinet, bassoon, alto saxophone, tenor saxophone, baritone saxophone, trumpet, French horn, trombone, baritone, tuba, bass, percussion, mallets.

Students wishing to play violin, cello, guitar can be added to the above instrumentation.

MUSIC 11 (MUSIC11) - Academic – Instrumental Band Course Code - 009005

Music 11 comprises the following components:

Performance: technical requirements (see Senior High School Music, 1990), solo and ensemble literature, instrumental (band or strings) or choral performance, Theory, review of grade 10 requirements (rudiments, melodic transposition, overview of ecclesiastical modes, orchestral score, readings), more extended composition, using more than two phrases and adding a second part rhythmic, intervallic, and melodic dictation, as in Grade 10 form fugue, sonata, theme, variation, History (The emphasis is on the Romantic period).

Prerequisite is Music 10.

MUSIC 12 (MUSIC12) - Academic – Instrumental Band Course Code - 009006

Music 12 comprises the following components:

Performance: technical requirements (see Senior High School Music, 1990), solo and ensemble, literature, instrumental (band or strings) or choral performance

Theory: completion of work from previous years, plus continuing application of the theoretical materials and processes, including a review of chords, triads, and inversions, continued development of dictation skills, study of forms particular to the Renaissance period

History: The emphasis is on music before 1600 and since 1900.

MUSIC 10 (MUSIC10V) - Academic – Vocal Course Code - 009004

The Grade 10 vocal course is designed to develop the vocal skills of the students at an introductory level. Students will gain practical experience through singing tutorials, vocal ensemble, voice and text, diction and phonetics. Music theory and history will be covered through the use of various styles of musical repertoire.

Students will perform in several projects (in-class performance) and mounted projects (showcases, festivals, concerts).

Prerequisite is Music 10 or Music 11.

MUSIC 11 (MUSIC11V) - Academic – Vocal Course Code 009005

MUSIC 12 (MUSIC12V) - Academic – Vocal Course Code 009006

-This course emphasis the musical component of Music Drama. The class is designed to allow students to gain practical experience through singing tutorials, musical theatre presentation, scene study, improvisation and voice and text.

-In addition to voice, technical skills in sound design, microphone technique and instrumental accompaniment will be studies.

-Participation in a fall musical production (Music of the Night) will be a major component of the student evaluation.

Band Course – Music 10, 11, 12

This course is designed for students that are currently involved in the band program and new students that have the technical background in their instrument. This unique component of this course is that it is offered outside the regular schedule. The class meets in morning and afternoon sessions with an average of five rehearsal hours per week.

Students will prepare a variety of musical styles and regular performances are a key component of the evaluation. Participation in music festivals, both as soloist and as an ensemble may be an option for evaluation.

VISUAL ARTS 10 (VISART10) - Academic Course Code - 001077

First year high school art will concentrate on developing basic art skills and an understanding of the core content of drawing and design, painting, sculpture, printmaking, and art history, including two optional units; in mixed media, pottery, crafts, and fiber/textiles. Drawing/design and art history will be related to every aspect of the year's work.

VISUAL ARTS 11 (VISART11) - Academic Course Code - 001081

Further develops the drawing, design, and art history components learned in Art 10, in addition to painting, printmaking and sculpture, to enable students to acquire greater understanding of the processes involved

IB VISUAL ARTS 11 (IBAV11) - 001086

IB VISUAL ARTS HL 12 (IBVAHL12) - 001087

The IB Visual Arts Program will offer students a distinctive approach to the study of art appreciation, art history, the place of art in society and practical studio work. Through personal research, students will demonstrate an understanding of the cultural influences of the visual arts. The individual research will develop within each student an understanding of the cross-cultural influences of each movement studies. Precedence will be placed on the development of a personal and unique Research Workbook that will demonstrate how individual research has lead to an understanding of topics and concepts being taught. The research Workbook will also be a catalyst for critical analysis of the aesthetic, technical and formal qualities of the art forms studied. Students will use the workbooks to relate all of this material to a social, historical and cultural context.

VISUAL ARTS 12 (VISART12) - Academic Course Code - 001079

Focuses on in-depth work in the fields of drawing, design and art history. These are the required components, with one additional component from painting, printmaking, sculpture; and one from mixed media, pottery, crafts, and fiber textiles.

DRAMA 10 (DRA10) - Academic Course Code - 004159

Drama 10 is an introductory course in drama focusing on the personal growth of the student. Through extensive work in improvisation, both in small and large groups, students gain confidence as they explore and communicate ideas, experiences, and feelings in a range of dramatic forms such as dramatic movement and mimic, dramatization, choral speech, choric drama, group drama, and reader's theater.

DRAMA 11 (DRA11) - Academic Course Code - 004167

This program builds upon the components and dramatic forms introduced and developed in the Drama 10 program. In Drama 11, the emphasis is on the text and text production within the theater component.

Students should have completed Drama 10 with a mark of 70% or Administrative approval.

A collage, a collective, a drama symphony, a forum theater piece, or a script are some of the possible forms of text creation which may pursued.

DRAMA 12 THEATRE ARTS (DRA12) Course Code - 004249

The emphasis in Drama Twelve is on the theater component of the drama curriculum. Drama Twelve students will be expected to develop, express, challenge, and communicate ideas through their participation in various theatrical productions as writers, directors, actors, technicians, and other production team members. Such participation will require intensive involvement in script analysis and production as well as extensive and demanding development of script through the rehearsal process to public production. Drama Twelve is not an introductory course. It is the final stage in the high school drama program. It's emphasis on theatrical production will demand a significant degree of discipline, commitment, and maturity from participating students.

MUSICAL THEATRE 12 (MUTH12) Course Code - 009128

Musical Theatre 12 is an integrated arts course that combines dance, music, drama, technical theatre, musicianship, and costume studies into a class that will utilize individual interests and abilities towards a study of musical theatre. This course satisfies the requirements of a fine arts credit elective but does not satisfy the mandatory fine arts credit. This course will only be offered second semester and will culminate in the production of the spring musical. Each student participating in this course will be expected to spend outside hours working on some aspect of musical theatre. Each student will be required to take part in developmental improvisation, interpretive movement, sight singing for fun (in groups), and at least two of the following disciplines:

- › Acting for musical theatre
- › Singing for musical theatre
- › Choreography for musical theatre
- › Costume Design
- › Costume Construction
- › Musicianship (2 disciplines)
- › Lighting / Sound Design
- › Stage Management
- › History of Musical Theatre

IB MUSIC 11 (IBMUSIC11) Course Code – 009150**IB MUSIC SL 12 (IBMUSL12) Course Code - 009152**

IB Music is a two-year course; students must be part of the school band ensemble which requires 3.5 hours/week outside of the regular school day. Topics covered include: music history 1600 to present, counterpoint and musical analysis. Evaluation is based on written assignments and performance evaluation (instrument of student's choice). This course is strongly recommended for students with a desire to study music in university. Students must be proficient in at least one instrument.

FAMILY STUDIES**FOOD TECHNOLOGY 10 (FDTCH10) - ½ Credit Course Code - 005125**

Food Technology 10 enhances students' understanding of the relationship between one's lifestyle and nutritional well-being, helps students apply that knowledge to meal management and wise consumer decisions, and helps students develop an appreciation of one's cultural heritage and its influence on food choices. This course is developed around three modules:

- Nutrition and Health (adequate nutrition, nutrition and active living, and special concerns in nutrition)
- Meal Management (food consumerism, lifestyle trends, and technological influences)
- Food, Culture, and You (Canadian food heritage, international foods, and food and people today)

FOOD PREPARATION_SERVICE 10 (FDPRSV10) - ½ Credit Course Code 005123

Is one of the half-credit options that may be used towards a technology credit for graduation purposes. Through food preparation and presentation students develop skills which may be transferred to food service skills in the workplace. Students are provided with practical experiences in food preparation and service. They look at the impact of technology on the preparation of food in the home and the workplace. Topics include Meal Planning and preparation, Food Service and Hospitality: Food Handling Procedures; Health and Safety in the Food Industry; and Food Marketing.

FOOD FOR HEALTHY LIVING 10 (FDHLLV10) - ½ Credit Course Code 005124

Students will be expected to

1. demonstrate knowledge of safe food preparation techniques and production
2. determine the environmental, cultural, and economic factors that influence consumer food decisions and wellness
3. identify the nutritional benefits of food as they apply to food choices
4. apply nutritional principles to planning and preparing healthy meals for self and family
5. identify and discuss trends and issues as related to foods and well-being
6. identify career and employment opportunities and related skills associated with food choices and well being

CHILD STUDIES 11 (CHLDST11) - Open Course Code - 005005

Child Studies 11 is a one-year course designated 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 guidance 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 (daycare, 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)

HEALTH_HUMAN SERV 12 ACAD (HLHM12AC) Course Code 149121

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.

FOOD STUDIES HOSPITALITY 12 (FDHOSP12) Course Code 005132

Students will be expected to

1. demonstrate knowledge of safety and sanitation procedures within the professional food service operation
2. understand and apply literacy and numeracy skills to professional food service operations
3. describe and apply their knowledge to the basic operation of a professional kitchen
4. demonstrate basic skills in food and beverage service
5. compare and contrast cooking methods as applied to various foods
6. recognize and apply the principles of good menu planning
7. research and relate to developments and/or trends in the food service industry
8. identify the life-work benefits of developing skills in food production

TECHNOLOGY RELATED EDUCATION

EXPLORING TECHNOLOGY 10 ACAD (EXT10AC) Course Code - 006068

This technology course provides students with hands-on activities and introduces them to a broad spectrum of technological concepts. By the end of the course, successful students are able to use a range of technical applications, integrate technology with other academic disciplines, create devices and systems to satisfy their needs, explain how technology affects society, and use technology in problem-solving situations. This is a project oriented course involving design and production suited to the interests of the student.

CONSTRUCTION TECHNOLOGY 10 (CNT10) - Open Course Code - 006036

This is a project oriented theory course including such topics as properties of wood, care and use of tools and machines, safety, wood finishes, etc. A study of home planning and construction including site and house planning, financing and principles of construction forms a significant part of the course. Students will also study mechanical drawing and blueprint drawing.

COMMUNICATIONS TECHNOLOGY 11 (CMT11AC) - Academic - Course Code 327075

COMMUNICATIONS TECHNOLOGY 12 (CMT12AC) - Academic - Course Code 327076

Communications Technology 11 or Communications Technology 12 is a course that involves using a hands-on approach to electronic, print, and web communication concepts for all grade 11 and 12 students. It provides all students with hands-on activities and introduces them to a broad spectrum of technological concepts, both in traditional media and new media. By the end of either course, students are able to use a range of technological tools, processes, and applications, integrate communications technology with other academic disciplines, design and create communication materials that solve technological problems, and explain the consequences of technology and how it affects society. Both courses are full credit academic courses and are both eligible technology credits to meet graduation requirements. These courses are recommended for all students of all learning levels. Communications Technology 11 is not a prerequisite for Communications Technology 12. Communication Technology 12 has more advanced specific curriculum outcomes than Communications Technology 11.

These courses consist of four modules: Fundamentals of Communications Technology (mandatory), Photography (mandatory), and two other modules from the following: Technical Design, Graphic Design, Web Publishing, Animation, Broadcasting, Video Production.

BUSINESS TECHNOLOGY 11 (BTEC11) - Academic Course Code 002354

Through the processes involved with the production of business documents, students learn to apply the conventions, practices, principles and employability skills within the personal and business environments. Business Technology 11 consists of five mandatory modules: Business Technology Fundamentals, Document Processing, Spreadsheets, Touch Keyboarding and Desktop Publishing.

Business Technology 11 is a full-credit academic course and is an eligible technology credit to meet graduation requirements. Business Technology 11 is recommended for all students of all learning.

PRODUCTION TECHNOLOGY 11 (PDT11) - Course Code 006039

PRODUCTION TECHNOLOGY 12 (PDT12) - Course Code 006040

(Wood or Metal)

By the end of each production technology course, students are able to demonstrate the process required to create a product using a variety of materials and methods. Entrepreneurship is an integral part of the grade 12 course. Please note: All students enrolled in the classes taught in our Mechanics Shop will be required to wear safety equipment including steel toed boots.

ENERGY_POWER_TRANSPORTATION 11 (ENERGY11) - Open Course Code - 006041

A study of the principles of automobile operation including sources of power, ignition and fuel systems, cooling and lubrication systems. The course will include a study of the main components of a motor vehicle, the principle of the diesel engine, two stroke cycle motor and hydraulics as it applies to construction, farming and fishing industries. This is a one year course for Grade 11 and 12 students.

ELECTROTECHNOLOGIES 11 (ELECTRO11) Course Code 327022

Electrotechnologies 11 enables students to gain an understanding of electrical and electronic systems and subsystems. Students explore a broad range of technology applications, for example, electric motors, appliances, audio and video devices, sensors, control devices, security systems, and control systems. Modules for this course include the following: Electro-assembly; Power Distribution and Conversation; Control Systems; Digital Technology; and Design Team or Independent Project.

HOUSING 12 (HOUSING12) - Open Course Code 005045 - ½ Credit

This half-credit course in housing assists students in assessing housing environments to meet family shelter needs, to explore community concerns and support services related to available adequate shelter, and to develop an appreciation of the problems related to national and global shelter. This course is developed around three modules:

- The Family (family housing needs, family shelter economics, family shelter management)
- The Community (sheltering in the community, community services)
- The Globe (global shelter issues)

SKILLED TRADES

Skilled Trades is a new suite of courses offered at Dr. John Hugh Gillis High School this year. These courses are taught in the Skilled Trades Centre, a new building at the back of our school. These courses are designed for those students who wish to explore skilled trades careers, earn an academic credit and enjoy working with their hands. Skilled Trades courses keep the door to university open, while opening the door to a three to five-year apprenticeship training program. A student must take Skilled Trades 10 to be eligible to take any further Skilled Trades courses. There is an application process for Skilled Trades10.

SKILLED TRADES 10 (STR10) - Academic Course Code 736001

Skilled Trades 10 is a career exploration course suitable for all students in grade 10 and above. The course provides students with a unique mixture of classroom and simulated workplace activities. These activities enable students to learn about and directly experience what life in the skilled trades has to offer. Students work with the basic set of hand tools used by professional trades people in the construction industry to complete real construction tasks and building projects. Because the Skilled Trades 10 curriculum offers such a unique mixture of activities, it is delivered in a new learning environment called the Skilled Trades Centre. Designed by experienced trades educators, the Skilled Trades Centre modifies the space normally occupied by classrooms into a construction site, workshop, and instructional area. Within the Skilled Trades Centre, students in Skilled Trades 10 focus on four topical areas: Skilled Trades Living, Safety, Measurement and Calculation for Trades, Tools and Materials of the Skilled Trades

CONSTRUCTION TRADES 11 (CTR11) - Academic Course Code 736002

Prerequisite: Skilled Trades 10

Construction Trades 11 is a continuation of Skilled Trades 10. Students will continue to focus on skills developed in Skilled Trades 10 and will define them in a construction environment. Trades that will be examined comprise of: carpenters, plumbers, electricians, painters-decorators, floor installers. Working in groups, students will develop skills necessary to work on a construction site. Based around a capstone project, each student will actively use the skills specific to each of the trades required to complete the project. Each student will frame, wire, plumb and finish a section of the project. Emphasis will be placed on communications, job-site safety, and professional trade practices.

TRANSPORTATION TRADE 11 (TTR11) - Academic Course Code 736020

Prerequisite: Skilled Trades 10

Transportation Trades 11 will continue to focus on the skills developed in pre-requisite Skilled Trades 10 and will further define them in an automotive environment. Trades that will be examined include Automotive Painter, Automotive Service Technician, Heavy Duty Equipment Technician, Motorcycle Mechanic, Motor Vehicle Body Repair, Parts person, and Truck and Transport Mechanic. Students will learn and develop the skills necessary to work in automotive/transportation sector trades.

Continuing inside a culture of safety, emphasis will be placed on professional trade practices and the essential employability skills. Students will anticipate, engage and reflect as they learn.

PHYSICAL EDUCATION

PHYSICAL EDUCATION 10 (PHE10) - Open Course Code 101028

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. This course covers the compulsory Physical Education requirement needed by all students for high school graduation.

PHYSICAL EDUCATION 11 (PHE11) – GIRLS ONLY (PHE11G) - Open Course Code 101030

PHYSICAL EDUCATION 12 (PHE12) – GIRLS ONLY (PHE12G) - Open Course Code 101032

This is an elective physical education course for students in Grade 11 and 12. It is directed towards the student interested in a high level of physical fitness and the acquisition of higher levels of sports and related activity skills. The students should be self-motivated and be prepared for vigorous activity. Students in Grade 11 and 12 are permitted only one credit in this course. Also, the course has a limited enrolment of thirty students per semester session. Please note: There will be a leadership component required with this course. Students requesting this course must have at least 70% in Phys. Ed. 10. Students who are not prepared for class (ie. equip.) on ten occasions will lose credit for this course.)

YOGA 11 (YOGA11) - Open Course Code 101089

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. This course is a specialized variant of Physical Education 11 that is open to students from all grade levels. It meets the requirements for a physical education credit. If the number of classes offered must be restricted, Grade 10 students will have priority for enrolment. This course has no pre-requisite

FITNESS LEADERSHIP 11 (FITLDP11) Course Code 101083

Fitness Leadership allows individuals to become more physically literate, allowing them to move with competence and confidence in a wide variety of physical activities in multiple environments that benefit the healthy development of the whole person, through knowing, doing and valuing. Fitness Leadership deals with 5 modules that include anatomy and physiology, the principals of conditioning, leadership, injury prevention and risk management as well as the components of a fitness class. These units of Fitness Leadership 11 will allow individuals to gain long term personal development enabling them to have a greater appreciation for their health and well-being as well as the different people and organizations they will become a part off in the future

Fitness Leadership 11 fulfills the PHE requirement for graduation.



Nova Scotia Virtual School

The Department of Education offers several online courses. The school contact teacher will ensure that the students have access to a computer and encourage students to work diligently on their courses. 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.

École virtuelle de la Nouvelle-Écosse The time spent working on the course each day is the duration of one semestered class plus time at home (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. Changes in course registration must be done within the first six-day cycle. Students can select from the following online course options:

Sample of Course Offerings from <http://nsvs.ednet.ns.ca> (subject to change)

Semester 1	Semester 2
Advanced Biology 11	Accounting 12
Advanced Chemistry 11	Advanced Chemistry 12
Advanced English 12	Advanced Physics 11
Advanced Global Geography 12	Advanced Math 12
Advanced Global Politics 12	Advanced Visual Arts 11
Advanced Math 12	Biologie 12
Advanced Physics 12	Biologie 12 Avancée
African Canadian Studies 11	Business Technology 11
Biologie 11	Calculus 12
Biologie 11 Avancée	Canadian Families 12
Biology 11	Canadian History 11
Chemistry 11	Chemistry 12
Chimie 11	Chimie 12
Chimie 11 Avancée	Chimie 12 Avancée
Entrepreneurship 12	Entrepreneurship 12
Film and Video 12 (PC)	Film and Video 12 (MAC)
Fitness Leadership 11	Global Politics 12
Geology 12	Introduction a la Lit. 12
Global Geography 12	Law 12
Global Politics 12	Multimedia 12 (MAC)
Math 12	Océans 11 (imm)
Oceans 11	Physics 11
Physics 12	Political Science 12
Pre-Calculus 12	Pre-Calculus 12
Science 10	Science 10
Sociology 12	Sociology 12
Tourism 11	Tourism 11
Visual Arts 10	Visual Arts 11
Workplace Health and Safety 11	

SECTION FIVE: THE INTERNATIONAL BACCALAUREATE DIPLOMA PROGRAM

The International Baccalaureate (IB) Program is a two-year program of study which consists of six subjects which can be taken at HL (Higher Level) or SL (Standard Level) HL & SL courses vary in breadth not depth. IB courses offered at Dr. J. H. Gillis Regional High School are as follows:

COURSE	LEVEL	LENGTH	EXAMINATION	DETAILS
English	HL	2 years	Grade 12	Literature Study 15 works
Second Lang (Fre) <i>Or</i> Second Lang (Fre)	HL SL	2 years 1 year	Grade 12 Grade 11	Currently both core French and Immersion students are in HL This appears as a grade 12 on transcript
History	HL/SL	2 years	Grade 12	
Exp. Sciences				
Biology	HL	2 years	Grade 12	This will appear as a grade 12 on transcript
Biology	SL	1 year	Grade 11	
Chemistry	HL	2 years	Grade 12	
Chemistry	SL	2 years	Grade 12	
Physics	HL	2 years	Grade 12	
Physics	SL	2 years	Grade 12	
Math	SL	2 years	Grade 12	SL Math is referred to as " <i>Calculus Math</i> "
Elective Subject Visual Art <i>Or</i> One more science	HL / SL	2 years	Grade 12	

IB DIPLOMA STUDENT COURSE SELECTIONS

Students interested in pursuing International Baccalaureate courses have two options:

Option #1: Complete all requirements for the entire IB Program i.e. full IB course load (6 courses) plus TOK, Extended Essay and CAS, as described above.

Student Choices for Diploma Program: (SIX COURSES PLUS TOK) THESE COURSES ARE TAKEN OVER A TWO YEAR PERIOD. DIPLOMA/CERTIFICATE STUDENTS MAY TEST OUT OF TWO SL COURSES AT THE CONCLUSION OF THEIR GRADE 11 YEAR

1. English HL
2. French HL or SL or a self-taught second language
3. History HL or SL
4. One of Chemistry, Physics or Biology
5. Math SL (CALCULUS MATH)
6. VISUAL ARTS, MUSIC OR AN ELECTIVE (MANY TAKE A SECOND SCIENCE COURSE)
7. THEORY OF KNOWLEDGE

ADDITIONAL REQUIREMENTS

1. Theory of Knowledge

The Theory of Knowledge course is a unique study for secondary school students. This, more than any other part of the program, gives the IB its distinct and special character. This is a scheduled course.

2. Extended Essay IB Diploma

Diploma Students must prepare a 4000-word essay, under the supervision and guidance of a teacher, in one of the disciplines that they have studied. Due by the fall of the final year, the essay is graded by an external examiner.

Students are given a writing period in the second term of grade 11; the project is independent, but guided by an advisor.

3. CAS

All diploma students must engage in activities that involve various aspects of Creativity, Action, and Service for the time equivalent of 150 hours (50 hours in each section) - over two years.

Option #2: Complete IB certificate courses which may interest the student. i.e. a strong science student may decide to take IB Physics and IB Chemistry along with their regular academic program. Certificate students must meet all Nova Scotia graduation requirements.

Pre-International Baccalaureate Courses Grade 10

Grade 10 Pre Diploma Courses:

Pre Diploma courses cover the same content as academic courses, but are more in depth, with an emphasis on skill development. *Any student interested in pursuing the I.B. Program in grades 11 and 12 should be enrolled in the following courses.

*Science 10 Pre IB

*French Pre Diploma 10 – or Français 10

GUIDELINES FOR STUDENTS/PARENTS/GUARDIANS FOR REGISTRATION

Grade 10 students:

You must select:

1. 1 English 10
 2. 1 Math 10 (2 credits)
 4. 1 Science 10
 5. 1 Social Studies 10
 6. 1 from Art, Music, and Drama 10
 7. Physical Education 10
 8. 1 other course
-

Grade 11 students:

You must select:

1. 1 English 11
 2. 1 Math 11
 3. 1 Canadian History 11
 4. 4 other courses, according to graduation requirements
-

Grade 12 students:

You must select:

1. 1 English 12
 2. 1 from Global Studies 12
 3. 5 other courses (three courses at the Grade 12 level)
-

** Any Grade 11 or Grade 12 student who would like to apply for an independent study course should indicate such on the registration form.

Please note, any IB Diploma student does not need to fulfill the above requirements, IB certificate students, however, must fulfill all requirements.

Please note, O2 students must fulfill all the above requirements along with Cooperative Education requirements of the O2 program.