



# Parrsboro Regional High School

## Course Selection Guide 2014-2015



Ward's Falls

**“The ladder of success is best climbed by stepping on the rungs of opportunity.” – Ayn Rand**

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# 2014-2015 PRHS Course Registration

**Please note: While care has been taken in the preparation of this guide to provide students and parents with accurate and relevant information, any need for clarification and/or interpretation is available through your School Counsellor or Administration at 256-5600 .**

## ❖ MESSAGE TO STUDENTS

Transition time has arrived and now it is necessary for you to register for courses as part of planning for your next year of high school. We expect that you will have discussed your course selection with your parents/guardians **PRIOR** to registration.

## ❖ STEPS TO COMPLETE COURSE REGISTRATION

### A. Your course registration package contains:

1. Your green “Math Recommendation” form. This is the math course that you will select on your registration form. This form must be signed and returned with your course registration form.
2. Your yellow “Course Registration” form. This form must be completed to the best of your ability with your parent/guardian’s signature.
3. Your blue “Course Guide” which outlines course information, procedures and requirements for high school graduation in Nova Scotia.

### B. How do I complete my Course Registration?

1. Complete signature(s) on your green form
2. Fill out and complete signatures on your yellow form.
3. Return both forms together to Julie Dowe in the office by  
**Tuesday, June 3<sup>rd</sup> at 9:00a.m.**
4. Course registration will officially be done in small groups of 4 or 5 by homeroom classes. This process will be facilitated by the School Counsellor, Shawna Shiers, in order to answer as many questions and concerns as possible. Shawna will be bringing your completed forms for you to confirm and/ or make necessary changes.
5. It is expected that you will come with your questions prepared and that you have completed the course form to the best of your ability. Group registration sessions will be limited to approximately 10 minutes.
6. Students will not be permitted to register for courses until both forms have been returned to the School office.

**Math recommendation form  
Course Registration Form**

## WHAT COURSES DO I NEED TO GRADUATE IN NOVA SCOTIA?

\*It is the responsibility of the student to make sure they have the appropriate number of credits for graduation. If you are not sure, please contact and/or meet with the school counsellor for further planning and discussion.



- You must successfully complete the 18 credits below to earn a high school diploma in Nova Scotia
- Over three years of high school, students can potentially obtain a maximum of 24 credits (8 per year)
- You may also have additional college/university requirements which may be separate from those needed to graduate from High School. Start your own research online for different schools and Programs. Write down your questions and then meet with your counsellor to discuss your interests, dreams, and options.
- You must have at least 5 grade 12 level courses to graduate.
- You can only count a maximum of 7 courses from the grade 10 level towards your 18 credits. More than 7 grade 10s will be considered extra credits beyond the first 18.
- You can only count a course once.
- Math 10 academic (as of 2013-2014) counts as two courses: 1- Your Math 10 credit and 2 -an “**OTHER**”.

### **Nova Scotia High School Diploma Requirements:**

- \_\_\_\_ English 10 (Academic)
- \_\_\_\_ English 11 (Communications, Academic)
- \_\_\_\_ English 12 (Communications, Academic)
- \_\_\_\_ Math 10 (Essentials, At Work, Academic)
- \_\_\_\_ Math 11 (Essentials, At Work, Academic, Pre-Cal)
- \_\_\_\_ Science Science 10
- \_\_\_\_ Science \_\_\_\_\_
- \_\_\_\_ Canadian History (Can History 11, Mi’kmaq Studies 10)
- \_\_\_\_ Global Studies 12 (Global His 12, Global Geog 12)
- \_\_\_\_ Fine Arts (Visual Arts10, Drama 10, Dance 11)
- \_\_\_\_ Physical Education (PE 10, PAL 11, Dance 11, Yoga11)
- \_\_\_\_ **Other:** Technology OR Math OR Science \_\_\_\_\_
- \_\_\_\_ **Other:** Technology OR Math OR Science \_\_\_\_\_
- \_\_\_\_ Elective (Your choice) \_\_\_\_\_
- \_\_\_\_ Elective(Your choice) \_\_\_\_\_
- \_\_\_\_ Elective (Your choice) \_\_\_\_\_
- \_\_\_\_ Elective (Your choice) \_\_\_\_\_
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19. \_\_\_\_ Additional \_\_\_\_\_
20. \_\_\_\_ Additional \_\_\_\_\_
21. \_\_\_\_ Additional \_\_\_\_\_
22. \_\_\_\_ Additional \_\_\_\_\_
23. \_\_\_\_ Additional \_\_\_\_\_
24. \_\_\_\_ Additional \_\_\_\_\_

Please note your questions to ask your Counsellor .

## ❖ CREDIT TYPES

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

**ADV - Advanced** - These courses are designed to meet the needs of students who have demonstrated an exceptional degree of academic ability or achievement and have been recommended by a teacher .

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

**OPEN** - Although none of the open courses are designed to meet the specific entrance requirements of any post-secondary institution, individual courses may meet entrance requirements of some institutions. Open courses may be considered academic or non-academic depending on your school of interest.

**GRAD - 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 that does not require academic courses.

## ❖ ATHLETICS

Nova Scotia School Athletic Federation (NSSAF) regulations require student athletes to be enrolled in a **minimum of three full courses each semester** to be deemed eligible to compete in school sports. Students enrolled in fewer than three courses are not considered full-time students and are ineligible for participation in NSSAF sanctioned athletics.

## ❖ COURSE GUIDELINES

If you are in grades 10- 12 and require a course that is not offered in our school, we advise you to refer to the list of Nova Scotia Virtual School Courses (online) included in this guide. **\*You must have special permission to take an NSVS course.** These courses require the ability to learn, engage and complete curriculum outcomes independently. It will be expected that you have a high level of self responsibility, accountability (meeting deadlines and showing up for E-chats, video conferencing and group chats which may sometimes be scheduled during your breaks depending on the course and your school schedule).

### **Students entering Grade 10**

Grade 10 students must take 8 credits (no free periods).

### **Students Entering Grade 11**

Grade 11 students are expected to take 8 credits (no free periods).

### **Students Entering Grade 12**

Grade 12 students are encouraged to enroll in at least seven courses. Full-time students must take at least 6 courses ( 3 each semester) regardless of how many they need to graduate.

## ❖ ARE YOU GRADUATING?

\*Please **DO NOT ASSUME** that you can graduate. **It is your responsibility to make an appointment with your School Counsellor** to confirm that you are meeting all graduation requirements. Be sure that you have completed the requirements for grade 10 and grade 11. See your requirement sheet included in this booklet. In order to be placed in a grade 12 homeroom, you must be carrying enough courses to complete your high school diploma.

## ❖ POST-SECONDARY ADMISSION REQUIREMENTS

Listed below are the grade 12 courses normally required for several post-secondary programs. It is important to check the specifics for each institution as they vary, especially outside Nova Scotia. Here are a few examples below. The overall average (of the entrance requirements) for a university program is between 60-85% depending on your school and program of choice. Each school may also require certain marks in certain subjects.

## **University Entrance Requirements:**

### Bachelor of Arts

-English 12 + 4 other academic grade 12 courses

### Bachelor of Commerce/Bachelor of Business Administration

-English 12, Mathematics 12 (in some cases Advanced Math 12 and/or Pre-Calculus) +3 other academic grade 12 courses

### Bachelor of Science

-English 12, Pre-Calculus 12, 2 Sciences at the grade 12 level + 1 other academic grade 12 course (highly recommend Calculus 12)

### Bachelor of Engineering

-English 12, Pre-Calculus 12, Chemistry 12, Physics 12 + 1 other academic grade 12 course (highly recommend

Calculus, Computer Science 12, and Architectural Design 12) / Calculus is required for Science and Engineering in many universities outside Atlantic Canada.

### Bachelor of Computer Science

-English 12, Pre-Calculus + 3 other academic grade 12 courses (highly recommend Computer Science 12 and Calculus 12)

### Bachelor of Nursing

-English 12, Math 12 (academic), Chemistry 12, Biology 12 + 1 other academic grade 12 course

### Bachelor of Health Sciences (Diagnostic Cytology, Medical Ultrasound, Nuclear Medicine Technology, Radiological Technology, and Respiratory Therapy)

-English 12, Math 12, and other science requirements as listed on university website.

## **Community College Entrance Requirements**

-Grade 12 or equivalent (some programs have specific subject requirements, particularly in mathematics and science). Please check your college for required subjects.

- Community Colleges' entrance averages are varied depending on the program, school and required courses.

- To review some examples of the many amazing programs offered, here are a few local schools to research and explore:

Nova Scotia Community College

[www.nsc.ca](http://www.nsc.ca)

Nova Scotia Agricultural College

[www.nsac.ca](http://www.nsac.ca) ( Now part of Dalhousie University)

Center for Arts and Technology

[www.digitalartschool.com/halifax](http://www.digitalartschool.com/halifax) ( NS, NB, BC)

Holland College ( PEI)

[www.hollandcollege.com](http://www.hollandcollege.com)

Oulton College (NB)

[www.oulttoncollege.com](http://www.oulttoncollege.com)

New Brunswick Community College

[www.nbcc.ca](http://www.nbcc.ca)

## ❖ COURSES OFFERED FOR 2014-2015

Every course can count as an ELECTIVE if it doesn't fit in any other REQUIRED space on your credit check sheet. The credit check sheet is for your planning purposes and discussions at home. (Brackets) indicate how the credit is counted on your credit check sheet.

### Grade 10 Courses

- ❖ English 10 (English)
- ❖ Exploring Tec 10 (Technology)
- ❖ Math 10 Academic (Math 10)
- ❖ Math 10 At work (Math 10)
- ❖ Math 10 Essentials (Math 10)
- ❖ Mik Maq Studies 10 (Canadian History)
- ❖ Physical Education 10 (Physical Education)
- ❖ Science 10 (Science)
- ❖ Visual Art 10 (Fine Arts)

### Grade 11 Courses

- ❖ Agriculture and Foods 11 (Science)
- ❖ Business Technology 11 (Technology)
- ❖ Biology 11 (Science) - Must have Science 10 first)
- ❖ Canadian History 11 (Canadian History)
- ❖ Child Studies 11 (Elective)
- ❖ English 11 Academic (English)
- ❖ English Communications 11 (English)
- ❖ Math 11academic (Math)
- ❖ Math at Work 11 (Math )
- ❖ Oceans 11 (Science)
- ❖ PreCal Math 11 advanced (Math )
- ❖ Physics 11 (Science)
- ❖ Production Technology 11 (Technology)
- ❖ Yoga 11 (Physical Education)

### Grade 12 Courses

- ❖ Chemistry 12 (Science)
- ❖ Comm Technology 12 (Technology)
- ❖ Coop 12 (Elective)
- ❖ English 12 academic (English)
- ❖ English Communications 12 (English)
- ❖ Geology 12 (Science)
- ❖ Global Geography 12 (Global)
- ❖ Home Trades 12 (Technology)
- ❖ Leadership 12 (Elective)
- ❖ Math 12 academic (Math)
- ❖ Math 12 advanced (Math)
- ❖ PreCalculus 12 (Math)
- ❖ Production Technology 12 (Technology)
- ❖ Sociology 12 (Elective)

## ❖ ENGLISH COURSES

The objectives of all English courses are to help students improve their ability:

- (1) to use language in thinking, listening, speaking, reading and writing.
- (2) to value and enjoy literature.
- (3) to view critically films, television, and other media.

### **ENGLISH 10 ACAD**

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

### **ENGLISH COMMUNICATIONS 11 GRAD**

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

### **ENGLISH 11 ACAD**

#### **Prerequisite English 10**

English 11 is intended for students whose goals might include post-secondary study. While this course emphasizes literary texts, students are provided opportunities to select their own texts for independent study and small-group inquiry. In designing learning experiences, teachers consider ways students can extend their knowledge base, thinking processes, learning strategies, self-awareness, and insights. Learning experiences should enable students to: study and give detailed accounts of complex and sophisticated texts and issues; be perceptive and analytical in making sophisticated mature judgments; be critical readers of literary texts; be critical viewers; express themselves precisely when writing for often complex purposes; be capable editors of their own and others writing; communicate confidently and effectively in the formal style and language required by some situations; and demonstrate control of language processes.

### **ENGLISH COMMUNICATIONS 12 GRAD**

English Communications (ECM) courses at both 11 and 12 grade levels are intended for students who are not university-bound but who may choose to go to a post-secondary school such as Nova Scotia Community



College. The course is intended for students who may need additional support in their development as readers, writers, and language users. English Communications courses are intended to prepare students for lifelong learning by engaging them in practical and interesting learning experiences closely related to their lives and to the world they will experience as adults. These courses are based on the interests and abilities of the students and provide support to meet their individual and diverse learning needs. The focus is on developing language skills necessary for the workplace. Students will work in small group and whole class settings that help develop their speaking and listening skills. They will read widely in their interest areas and create both written and visual texts to improve their reading and writing skills. All students will write the English Communications 12 provincial exam.

## **ENGLISH12 ACAD**

### **Prerequisite: English 11 ACAD**

Students who are successful with English 12 should have the skills to be successful at university. This course is a continuation of the types of reading and writing done in English 11, with an increased emphasis on exploring social, political, ethical and cultural issues in the wider community. Common texts will be used; however, students are provided opportunities to select their own texts for independent study and small-group inquiry. In designing learning experiences, teachers consider ways that students can extend their knowledge base, thinking processes, learning strategies, self-awareness, and insights. Learning experiences should enable students to: study and give detailed accounts of complex and sophisticated texts and issues; be perceptive and analytical in making sophisticated mature judgments; be critical readers of literary texts; be critical viewers; express themselves precisely when writing for often complex purposes; be capable editors of their own and others writing; communicate confidently and effectively in the formal style and language required by some situations; and demonstrate control of language processes.

## **❖ MATHEMATICS**

### **POST SECONDARY MATH REQUIREMENTS**

\***Math Essentials** is accepted by Post Secondary Schools where Math Academic or Math At Work is not required.

\***Math At Work** is accepted by Post Secondary Schools where Math Academic or Math Advanced is not required.

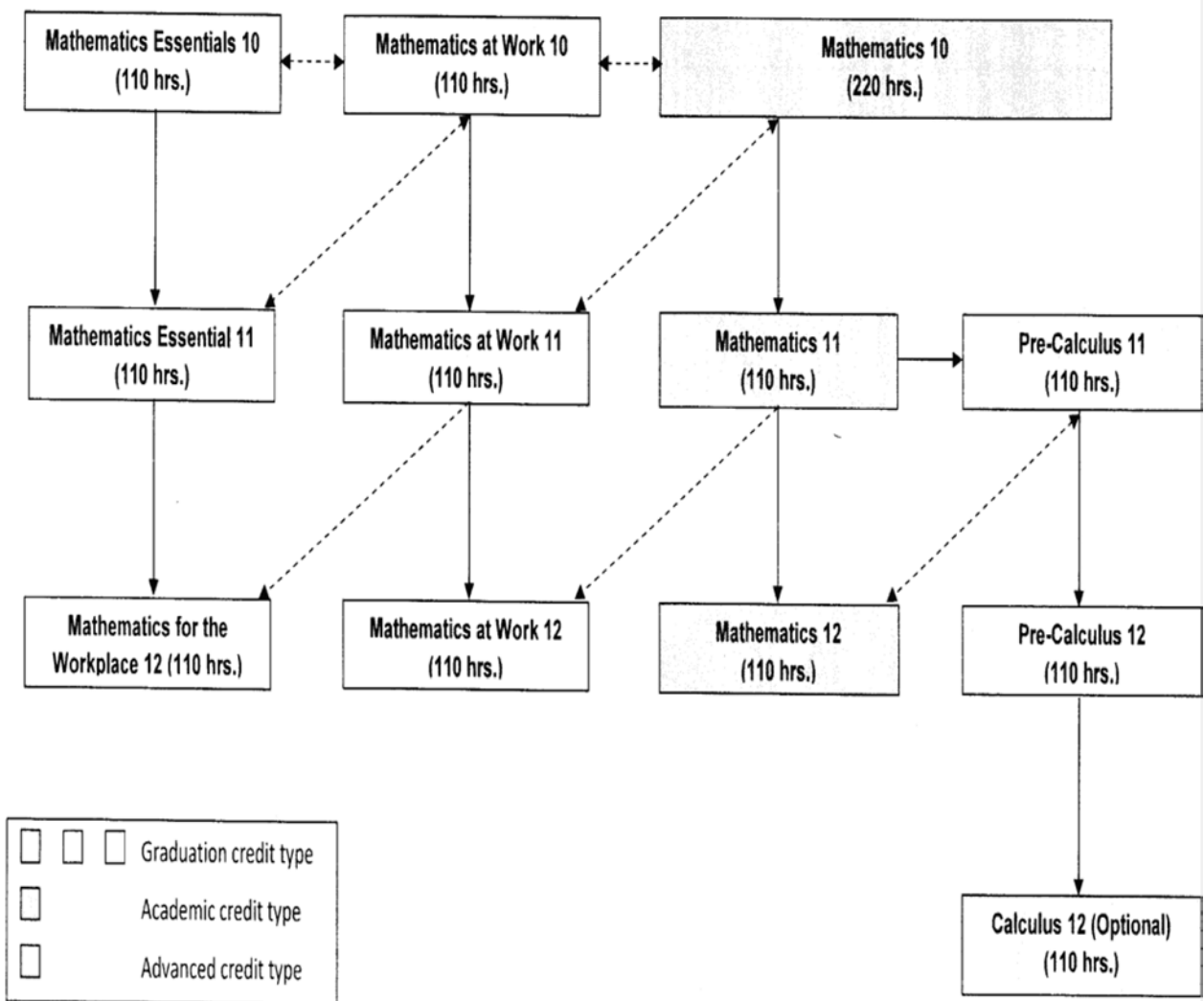
\***Math Academic and Math Advanced Courses (PreCal & Calculus)** are courses which help to prepare the student for in-depth problem solving required in University and College Business/Commerce and Science/Health Programs. Please check with your counsellor or individual educational programs for more information. Most University Science Programs will require at least a 65-85% in these courses to be accepted or to maximize success, depending on the school.

### **MATH RECOMMENDATION**

Based on the assessment information received by your Math teacher this year, you have been recommended for a Math course (see your green form) to optimize your success. Please refer to the diagram below to review your high school math options and pathways.

## Senior High Mathematics: Common Pathways

This diagram illustrates likely course pathways for senior high mathematics. Grade 10 courses will be implemented in 2013–2014, grade 11 courses in 2014–2015, and grade 12 courses in 2015–2016. The Mathematics Essentials pathway, which is currently available as part of Public School Programs, will continue.



## ❖ MATH COURSES

### **MATHEMATICS ESSENTIALS 10 GRAD**

This course provides students with the mathematics they will use in everyday situations at work and at home. Topics include: pay options and deductions, paying taxes, buying decisions, banking transactions and saving money, investing and borrowing money, buying a car and planning a trip. This course and Math Essentials 11 satisfy the graduation requirement of having two mathematics credits.

### **MATHEMATICS AT WORK 10 GRAD**

Mathematics at Work 10 is a new course designed to provide students with the mathematical understandings and critical-thinking skills identified for direct entry into the work force or for entry into programs of study that do not require academic mathematics. Students will explore the following topics: measurement, area, Pythagorean theorem, right triangle trigonometry, geometry, unit pricing and currency exchange, income, and basic algebra. It is a 110 hour one credit course that includes a provincial assessment written in January or June.

### **MATHEMATICS 10 ACAD**

**\*This course will be presented as a 2 semester course. This will mean that students will have mathematics class everyday for their grade 10 year.**

**\*Counts as two credits - one math credit and one “OTHER” credit (see credit check sheet included in this guide)**

Students taking Mathematics 10 will have demonstrated satisfactory achievement of learning outcomes in grade 9 mathematics. It is designed to provide students with an initial course in the pathway to develop mathematical understandings and critical-thinking skills identified for post-secondary studies in programs that require an academic or Pre-Calculus mathematics credit. Students 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. It is a 220-hour two-credit course which is a pre-requisite for all other academic and advanced mathematics courses. There will be a provincial assessment for Mathematics 10 written in June.

### **MATHEMATICS AT WORK 11 GRAD**

**Prerequisite: Successful completion of Mathematics at Work 10 or Mathematics 10**

Mathematics at Work 11 demonstrates the application and importance of key mathematical skills.

Students will explore the following topics: measurement systems, volume, 2D and 3D geometry, scale, exploded diagrams, numerical reasoning, personal budgets, compound interest, financial institution services, and formula manipulation for various contexts.

### **MATHEMATICS 11 ACAD**

**Prerequisite: Successful completion of Mathematics 10**

Mathematics 11 is an academic high school mathematics course. Students who select Mathematics 11 should have a solid understanding of the Mathematics 10 curriculum. **Mathematics 11 is a prerequisite for Pre-Calculus 11.** Students in Mathematics 11 will explore the following topics: applications of rates, scale diagrams and factors, inductive and deductive reasoning, and introduction of proof, cosine law, sine law, spatial reasoning, statistics, systems of linear inequalities, and quadratic functions.

## **PRECALCULUS 11 ADV**

### **Prerequisite: Successful completion of Mathematics 11**

Pre-Calculus 11 is an advanced high school mathematics course. Students who select Pre-Calculus 11 should have a solid understanding of Mathematics 11 curriculum. Pre-Calculus 11 is a prerequisite for 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.) 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.

## **MATHEMATICS 12ACAD**

### **Prerequisite – successful completion of Mathematics 11 ACAD.**

Students in Math 12 will explore the following topics: quadratics, exponential growth, circle geometry and probability. This course builds upon mathematical knowledge developed throughout high school so strong performances in both math 10 and 11 academic are required.

## **MATHEMATICS 12 ADV**

### **Prerequisite – successful completion of Mathematics 11 ADV**

Students in Math 12 will explore the following topics: quadratics, exponential growth, circle geometry and probability. There are 10 additional learning outcomes that can only be accomplished through individual initiative and willingness to work independently. Students in the advanced course must be willing and able to demonstrate more open-ended problem solving skills, a greater facility with algebraic manipulation and the ability to use deductive reasoning and logic.

## **PRECALCULUS 12 ADV**

### **Prerequisite – successful completion of Mathematics 12 or 12 ADV**

Proofs, problem solving, and algebraic manipulation will be incorporated in all topics. Topics include theory of equations, factor theorem, operations with rational expressions, algebraic functions, logarithmic and exponential functions, conics, complex numbers and polar coordinates, 3D space, sequences, and series. This is a required course for enrolment in most science programs and some business programs at the university level.

## ❖ PHYSICAL EDUCATION

### **PHYSICAL EDUCATION 10 OPEN**

#### **Open to all grades**

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 (4) modules: Outdoor Pursuits, Exercise Science, Personal Fitness, and Leadership. Activities: Lacrosse, soccer, track & field, team handball, low organized games, basketball, badminton, weight training, softball, touch football, X-country running, wrestling.

Each unit runs for approximately six weeks with two activities being offered during each unit. At the end of the unit there is a theory test, a skill test, and a fitness test. Theory classes are held once every cycle.

### **YOGA 11 ACAD**

#### **Open to all students**

Yoga 11 will examine various styles and characteristics of yoga. It is an expectation that students will develop their personal practice of yoga that can be pursued over the long term 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 apply 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.

## ❖ SCIENCE

### **AGRICULTURE AND AGRIFOOD SCIENCE 11 ACAD**

#### **Open to all grades**

Agriculture/Agrifood is organized into six modules, of which students must take four to receive a full credit . In addition to the compulsory module, Fundamentals of Agriculture/Agrifood, students choose modules from Fundamentals, Primary Production Systems, Support Systems, Beyond the FarmGate, Foods, and Project.

### **BIOLOGY 11 ACAD**

#### **Students in grade 10 who wish to take this course must register for Science 10 first semester and Bio 11 second semester**

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

## **CHEMISTRY 12 ACAD**

### **Grade 12 Students must have successfully completed Grade 11 Chemistry and Math 11 academic**

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

## **GEOLOGY 12 ACAD**

### **Grade 11 and 12 students. Students must have successfully completed Science 10**

This course is designed to explore the processes at work on Earth today, how they contribute to the landforms we see around us, and the impact of the interactions between people and Earth. The topics included are the structure and history of the Earth, minerals, rocks and the rock cycle, the internal and external processes that contribute to the development of mineral resources, mountains, glaciers, groundwater, volcanoes and earthquakes, the theories geologists have developed to explain their observations, geologic time and Radiometric dating, and the impact of human decisions on our mineral resources and our environment. Whenever possible, the local geology will be used to illustrate the topics. Laboratory work, lab tests and independent projects will enhance the topics being studied.

## **OCEANS 11 ACAD**

### **For grade 11 and 12 students who have already taken a science credit.**

Oceans 11 may be used to satisfy the second science credit requirement for high school graduation. The Oceans 11 program is designed to allow students to explore aspects of global and local oceanography and current ocean-related issues. Grounded in a strong oceans-science base, the course examines the oceans from a systems perspective focusing on the connections within the ocean and between the ocean and the terrestrial world, with an emphasis on ocean-human interactions. The notion of sustainability and the role of the ocean in the earth's sustainability are central to the course. The Oceans 11 course is divided into four main themes: Marine Biome, Aquaculture, Ocean Structure and Motion, and Coastal Zone Management. Students are expected to display qualities of active learning.

## **PHYSICS 11 ACAD**

### **Grade 11 & 12 students. Prerequisites: Math 10 ACAD, Science 10**

Physics 11 and 12 are offered in alternate years but topics have been arranged so qualified students can enroll in either course in any order. Physics refines our understanding of the universe using the language of mathematics so the ability to understand and manipulate formulas in the context of a word problem is critical for success in this course. Students will be expected to analyze graphs and vectors as a means of representing motion and energy. Topics include velocity, acceleration, force, mass, Newton's Laws, torque, projectiles, momentum, work, power, potential and kinetic energies, and the conservation laws. These topics provide the foundation for further study in physics at the post-secondary level.

## **SCIENCE 10 ACAD**

### **For all grade levels. This is the introductory course to all other sciences.**

The aim of the Science 10 course is to heighten students' awareness and understanding of the relationships among science, technology, and society and to prepare students for further study in science fields. The course is designed to provide students with the tools necessary to become scientifically and technologically literate. Scientific concepts and skills are taught in a social context that encourages active and meaningful learning among students. Classes are a mix of theory and practical, hands-on work, with an emphasis on scientific literacy and numeracy. Core topics include the continuation of the Grade 9 unit in chemistry and an introduction to physics, ecology and weather. It is designed to be a foundational science course that reflects

the integration of biology, chemistry, and physics while emphasizing critical thinking, technological literacy, communication, and numeracy as well as personal and social values and skills. This academic level course will provide the background necessary for students who wish to take grade 11 and 12 science courses: possibly with the intention of pursuing sciences at a post-secondary level. Science 10 ACAD requires students to be organized, analytical and open-minded.

## ❖ PERSONAL AND CAREER DEVELOPMENT ELECTIVES

### **CHILD STUDIES 11 OPEN**

#### **For all grades**

This course is designed to help students explore the meaning and implications of responsible parenthood; to help them acquire current information regarding reproduction, pregnancy, and childbirth; to help students explore significant issues of early childhood; and to help them apply the understanding of child development to the care and guidance of children. This course involves the following: “Baby Think It Over” infant simulators; and planning, setting up, and running a mini play school.

### **COOP EDUCATION 12 ACAD**

#### **For all grades. Students must be 16 years of age to register for this course.**

**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 an academic high school credit. Students are required to complete a minimum of both 25 hours in class and 100 hours of community based on-site training. Students engage in self-assessment exercises, learn career decision-making skills and job search strategies, while being exposed to current employment issues including but not limited to Health and Safety issues, Employment Insurance benefits and Canada Pension. They are expected to complete professional portfolio (hard copy and/or digital), daily log/journal, reflective assignments, training plan and career plan. Each student will have a learning agreement and a learning assessment and evaluation plan.

**The Co-Op teacher will assist students in finding an appropriate work placement.** The work placement 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 teacher, mentor (site supervisor), student and parent(s). The student placement is supported by a learning and evaluation plan jointly developed by the student, co-op teacher and mentor.

**Co-Operative Education is open to students 16 years of age or older** and who, in the opinion of the Co-op teacher, is socially mature and ready for the independent nature of this program. Co-op students have been placed with private and public sector organizations such as dental offices, veterinary clinics, banks, construction companies, car dealerships, retail stores, gas stations, hotels and restaurants, skilled trades, fire and police services, non-profit organizations, and many more.

### **LEADERSHIP 12 ACAD**

#### **For grades 11 and 12 students**

Leadership 12 is a personal development course designed to provide students experiences to develop a personal philosophy of leadership that is based on their core beliefs and values in relation to socially responsible leadership. They will understand the concept of socially responsible leadership and how it impacts economic, social, environmental and ethical issues. Students of Leadership 12 are required to be supportive of their school and community. It is imperative that students recognize they will be required to develop an understanding of their school and acceptance of the responsibilities needed to strengthen its culture and relationships. Leadership 12 students will be expected to model positive, principled leadership attributes

as they are carrying out these responsibilities. **They will also be required to spend time outside of class planning and attending events.**

## ❖ FINE ARTS

### VISUAL ARTS 10 ACAD

**For all grades levels. At this time, priority will be given to grade 10's**

In this course, students will explore the elements and principles of art through a variety of art making media and subject matters. Emphasis is placed on demonstrating personal growth in developing creativity, skills and techniques in creating and presenting original artwork. Some topics to be covered include portraiture, figure drawing and perspective. Course content also includes cultural and historical influences on art, art history and art appreciation.

## ❖ SOCIAL STUDIES

### CANADIAN HISTORY 11 ACAD

**For students in grades 11 or 12. Grade 10's can be recommended by a teacher.**

This course is organized according to five themes: Globalization, Economic Development, Governance, Sovereignty, Justice. In addition to acquiring knowledge of the history of Canada, students will learn and practice the historical method, historiography, and various other skills essential to the study of history. Students will be expected to engage in research and effectively communicate the findings of their research. (The Social Studies Department recommends that only strong academic Grade 9 students enroll in Canadian History 11 in their Grade 10 year). **This course fulfills the requirement for the Canadian History credit.**

### GLOBAL GEOGRAPHY 12 ACAD

**For grade 12 students. Grade 11 students may be permitted if space allows.**

This course, which focuses on global geography, explores major themes that help us to understand the nature and origins of complex humanity/environment relationships in the contemporary world. Guided by the fundamental themes and skills of modern geography, students pursue this exploration through five compulsory units: The Global Geographer, The Planet Earth, Population, Resources and Commodities and Urbanization. By using geographic skills and techniques, learning and applying a body of skills and techniques, learning and applying a body of geographic knowledge, and developing their own planet management awareness, students become informed global geography students. The process of becoming informed enables students to propose reasonable answers to the question upon which Nova Scotia's global studies courses are built, "How did the world arrive at its current state at the close of the twentieth century?"

### MI'KMAQ STUDIES 10 ACAD

**For grades 11 and 12 students. Grade 10's may sign up for the course based on strong academics in their grade 9 year.**

The Mi'kmaq Studies course will provide all interested students with an understanding of historical and modern issues in Mi'kmaq society, including culture, language, spirituality, art, folklore, politics, economics and education. There is a major independent study assignment in which students will be expected to engage in research and communicate it effectively. **This course fulfills the requirement for the Canadian History credit.**

### SOCIOLOGY 12 ACAD

**For Grades 11 and 12 students**

This sociology course is designed to give an understanding of the basic aspects of sociology. It allows students to examine Canadian sociological issues and to participate in a local community/sociological



project. Canadian sociological issues that might be considered include the family, students and schools, poverty, minority groups, women in society, conformity and deviance, conflict, crime in Canada, punishment and rehabilitation, and the future

## ❖ TECHNOLOGY EDUCATION

The Technology Education curriculum is designed to foster the development of all learners as technologically literate and capable citizens who can develop, implement and communicate practical, innovative, and responsible technological solutions to problems. The following courses meet the technology requirement for high school completion.

### **BUSINESS TECHNOLOGY 11 ACAD**

#### **For all grades (space is limited)**

Through the processes involved with the production a business documents, students taking Business Technology 11 learn to apply the conventions, practices, principles and employability skills within the personal and business environments. This course provides students with opportunities to investigate the range of careers and employment opportunities that exist in the expanding communications and business sectors, to develop some basic skills and to explore the range of roles and workplaces where the crating of business documents is a core activity. Business Technology 11 focuses on 4 main modules; keyboarding, work processing, spreadsheets and desktop publishing.

### **COMMUNICATION TECHNOLOGY 12 ACAD**

#### **Grades 11 and 12 students.**

The focus of the curriculum is the development of students' technological literacy, capability, and responsibility. The primary strategy will be to engage students in the design, development, management, and evaluation of communication systems. The course will adopt a hands-on approach and will expose students to a broad range of skills and issues relevant to the communications industry. Emphasis is placed on student experiences that may include digital photography, digital imaging, web page design, desktop publishing, audio editing, digital video production, interactive multimedia design, animation, and electronic communications systems. Students will be using Macromedia Studio MX and Adobe Creative Suite CS3.

### **EXPLORING TECHNOLOGY 10 ACAD**

#### **For all grades**

Through a series of problem solving challenges, students will explore a broad range of technologies related to structural, mechanical, civil, robotic and electronic engineering. Some topics covered are computer aided design and drafting, computer programming, binary coding, analog electronics, and sustainability environmental practices. The course will examine the effects of technology on society, promote technological literacy, and provide an insight into careers in technology

### **HOME TRADES TECHNOLOGY 12 GRAD**

#### **Grade 12 students. Grade 11 students may be permitted if space allows ( space is limited)**

This course provides a wide range of experiences and learning opportunities related to the building trades. As a result of this course, students will develop some of the skills and knowledge necessary to participate in the home construction industry. Major areas of study include the Imperial Measurement System, construction systems, electrical systems, plumbing systems, business practices, environmental practices, safety, tools, and equipment. There is a math component in each unit of study.

## **PRODUCTION TECHNOLOGY 11 OPEN**

### **Grades 11 and 12 Students**

This introductory course in production technology is intended to provide students with a chance to work with their hands to produce useful projects. Students will learn and practice the basics of design and problem solving by manufacturing products using the principles of mass production. Students taking this course must have a mature respect for working safely with machines and be willing to undertake the challenges that come with good design and quality workmanship

## **PRODUCTION TECHNOLOGY 12 OPEN**

### **Grade 11 and 12 students**

This course is intended to provide students with a further opportunity to study in the field of production technology. Students will examine traditional and modern manufacturing techniques. Content includes product development and design, the development of business plans and marketing strategies. Students taking the course must have a mature respect for working with machines and be willing to undertake the challenges that come with good design and quality workmanship.

**NSVS Course Offerings for 2014/15 (As of May 22<sup>nd</sup>, 2014) <http://nsvs.ednet.ns.ca/hs>**

**SEMESTER ONE**

**SEMESTER TWO**

Mathematics 10 academic (2 semesters-all year)			008017
Science 10	11249	Biologie 11 (imm)	11179
Visual Arts10	1077	Biologie Avancee 11 (imm)	11031
Advanced English 11	4251	Business Technology 11	2354
Biology 11	11153	Canadian History 11	12330
Advanced Biology 11	11155	Physics 11	11150
Chemistry 11	11149	Advanced Physics 11	11020
Advanced Chemistry 11	11015	Tourism 11	98205
African Canadian Studies 11	12218	Visual Arts 11	1081
Chimie 11 (imm)	11324	Advanced Visual Arts 11	1078
Chimie 11 Avancee	11136	Océans 11 (Immersion)	11157
Fitness Leadership 11	101083	Accounting 12	2003
Océans 11 (Immersion)	11157	Biologie 12 (imm)	11123
Tourism 11	98205	Biologie Avancee 12 (imm)	11259
Workplace Health and Safety 11	149104	Calculus 12	8190
Career Development 11	149170	Canadian Families 12	5065
Chimie 12 (imm)	11121	Chemistry 12	11151
Chimie 12 Avancee	11137	Advanced Chemistry 12	11017
Advanced English 12	4252	Entrepreneurship 12	2098
Entrepreneurship 12	2098	Film and Video 12 (MAC only)	327023
Film and Video 12 (PC only)	327023	Global Politics 12	12423
Geology 12	11211	Introduction a la Littérature 12	22140
Global Geography 12	12209	Law 12	12028
Advanced Global Geography 12	12359	Math Pre-Calculus 12	8156
Global Politics 12	12423	Multimedia 12 (MAC only)	327057
Math 12	8073	Sociology 12	12027
Advanced Math 12	8015		
Math Pre-Calculus 12	8156		
Physics 12	11152		
Advanced Physics 12	11022		
Sociology 12	12027		



## I'm starting to think about my future.

### My Plan for Success

We encourage you to complete the chart below, tentatively listing all the courses you plan to take in high school. Be sure to include prerequisites for future courses. Please check your graduation requirements and requirements for post-secondary programs that might interest you. This sheet is for your planning and discussion purposes only.

➤ My future plans include:

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_

➤ If college or university, program of study: \_\_\_\_\_

➤ Specific program requirements include: \_\_\_\_\_

Grade 10	Grade 11	Grade 12
<b>Alternate Course</b>	<b>Alternate Course</b>	<b>Alternate Course</b>

- You should consider two alternate courses in the event that an elective is cancelled.