

Forest Heights Community School

Course Selection Booklet

2015-2016

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FOREST HEIGHTS COMMUNITY SCHOOL

COURSE SELECTION GRADES 9, 10, 11, and 12

OVERVIEW

The Forest Heights Community School Program of Studies is intended to assist students and parents in selecting the appropriate courses for each student enrolled in grades nine, ten, eleven and twelve.

Section One outlines the types of credits in high school as well as the requirements for high school graduation. Included are the instruction for registration and the procedure for changing courses should it be required.

Section Two reviews the types of programs that are available in the school, for those students looking for an education that may suit their interests.

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.

Section Four includes information about the courses and curriculum that grade 9 students will be enrolled in while attending.

Course Selection Handbook 2015-2016

Section 1: Introduction

This handbook contains descriptions of the proposed courses that are offered at Forest Heights Community School for the 2015-2016 school year. This information will aid students and parents with making appropriate course selections and assist with educational planning.

It is important that students select courses carefully and with consideration to their graduation requirements, post-secondary plans, personal interest and abilities. We strongly encourage all students to consult with a school counselor when making their final decisions. These decisions have a direct impact on the student's future plans.

Course selection also has an impact on how many sections of a course that are offered, and which electives will be offered. It may not be possible for us to offer every course that is included in this book. Final decisions on course offering are determined by the number of students selecting the course at time of spring registration.

Registration

Registration involves the proper selection of courses to satisfy individual needs and abilities. Consider the following when making selections:

- Courses that will meet provincial graduation requirements.
- Course needed to meet admission requirements to post-secondary educational institutions.
- Course that provide academic challenge and success.

Responsibility: **It is the responsibility of the student to ensure that graduation requirements are met.** An effort is made to support and monitor each student's selection of courses.

Semester System

Forest heights Community School operates within a semester system during the school year. There will be two semesters. One will run from September to the end of January and the second from February to the end of June. Certain courses will run all year.

Course Load

Students are able to take a maximum of eight [8] courses per year, four [4] courses in each semester.

The following table shows required number of course a student must be registered for in order to be considered a full-time student at Forest Heights Community School.

Grade 10	8 courses
Grade 11	7 courses
Grade 12 with at least 14 credits	6 courses [3 in each semester]
Grade 12 with fewer than 14 credits	7 courses

Course Identification

A student is awarded a credit when she/he has successfully completed 110 hours of instruction with a grade of at least 50%. Each course is coded with a grade level [10, 11, or 12] and credit type [advanced, academic, open, graduation] indicating the level of difficulty of the course.

Credit types are as follows:

- **Academic:** These courses are designed for students who expect to enter college, university or other post-secondary institutions.
- **Advanced:** These courses are designed for students who have demonstrated an exceptional degree of academic ability. These courses are strongly recommended for students considering Advanced Placement. They are accepted for entrance to college, university or other post-secondary institutions.
- **Graduation:** These courses are designed for students who wish to obtain a high school leaving certificate and who intend to proceed to employment or to some selected area of post-secondary education. These courses are accepted for most community college programs. University and similar post-secondary education institutions will not accept these courses as entrance requirements.
- **Open:** These courses are designed for students who are in Academic or Graduation programs. Most universities will not accept these courses from Grade 12 as credits for university entrance. Most programs at Community College do accept these courses as entrance requirements to many programs.

NOTE: check College and university program requirements to ensure that the credit level is accepted for entrance.

Grade Level

Grade levels are determined by the number of credits a student has earned. Please refer to the following table.

Grade Level	Credits earned	
10	0-4	If 5 or more credits are earned at the end of grade 10, a student will be designated as a grade 11 student.
11	At least 5	Most students will be designated as a grade 11 student in their second year unless they have earned less than 5 credits
12	10-18	In order to be designated as a grade 12 student, that student must have the potential to graduate in June of that year.

Similar course

Student can receive one credit per subject at each grade level. For example, the successful completion of Music 10 Guitar and Music 10 Instrumental Band only count as 1 credit. The same applies for Math 10 Academic and Math 10 Foundations or English 11 and English Communications 11. However, both courses and their marks will be included on the student's record of courses taken, a transcript.

Graduation Requirements

These requirements have been established by the Nova Scotia Department of Education and must be achieved in order to graduate from a Nova Scotia high school. All courses must be completed with a minimum mark of 50%.

Graduation requirements for students who enter grade 10 in September 2008, or later: [Student checklist]

If you received your first credit in 2007-2008 or later: You must have a minimum of 18 credits, no more than 7 grade 10 credits maybe used and at least 5 credits must be at the grade 12 level			
Section	Credit Required	Course Options	Completed?
Language, Communication & Expression	English 10	Eng 10, Eng 10P, ESL 10	
	English 11	Eng 11, ESL 11, ECM 11	
	English 12	Eng 12, ECM 12, AP Eng	
	Fine Art	Visual Art, Music, Drama	
Science, Mathematics, & Technology	Math 10	Essentials, Work, or Academic	
	Math 11	Essentials, Work, or Academic,	
	Science 10	Sci10S, Sci10, or Sci10AP	
	Science	Biology, Chemistry, Physics, Oceans, Human Biology, Food	
	Math/Sci/Tech	Mathematics or Science or Technology credit	
	Math/Sci/Tech	Mathematics or Science or Technology credit	
Personal Development & Society	Physical Education	PAL 11, PE 11, PE 12, Yoga 11	
	Canadian Studies	Can History 11 Mi'kmaq Studies 10	
	Global Studies 12	Global History 12, Global Geography 12	
Electives [5]	1.		
	2.		
	3.		
	4.		
	5.		
Additional Credits			

Beginning in September 2013 Math 10 students will take 220 hours of mathematics [i.e. two full semesters in grade 10]. Successful completion will result in two mathematics credits – one of these is an eligible credit for the two mathematics credits required for graduation. The other credit is an eligible credit for the ‘two others from mathematics, science, and/or technology.’ Note English 10 Plus is also a 220 hour course.

Instructions for Registration

Course registration is an individual and important task for each student. A student will:

1. Consider which courses he/she will take toward their graduation certificate.
2. Thoroughly read the course description found in this book. Ask teachers and counselors questions. Counselors will visit classrooms to present information and answer questions prior to registration.
3. Consider how the courses you choose fit into your possible career or post-secondary plans.
4. Use the check-list to help plan.
5. Complete a course registration form. A parent signature is required.
6. Complete online registration.

It is recommended that students make appointments to meet with a school counselor for assistance in course selection.

Course Change Policy

Once courses have been selected in the spring of 2015 students are expected to remain in these courses for the entire 2015-2016 school year. Important school decisions are made based on these choices.

Exceptions which allow for course changes are:

1. Timetable conflicts: if a student chooses a course in the spring and it does not fit into his/her schedule, appropriate changes will be made in consultation with the student. Students are to select alternate choices carefully on the registration form as they will be used if a conflict arises.
2. Necessary level changes: If a teacher supports or recommends a change in level [such as English 11 to ECM 11], an attempt will be made to make a change. Level changes can only occur if class size and timetable scheduling permit.
3. If a course and its recommended prerequisite are in reverse order, an attempt will be made to correct the student's timetable.
4. Referrals by teacher and CORE: these are staff initiated changes and will be considered.

Student-initiated changes are not permitted with these exceptions;

1. A student may inquire about making a change to his/her timetable prior to the beginning of a semester by talking with the school's guidance counselor to confirm that the changes are the best interest of the student. Written parental permission or agreement is needed for the change.
2. Within the first cycle in a semester [8 school days] to inquire a student: fills out the form, indicating that they have spoken with the teachers of the courses involved and explaining the reason for the request. They then need to talk with the school's guidance counselor to confirm that the changes are the best interest of the student. Written parental permission or agreement is needed for the change.
3. Students taking more courses than necessary may drop a course. This course may be replaced with another within the first cycle of the semester [8 school days]. After that time has passed, a course can only be dropped for a spare period.

NOTE: After a mid-term mark has been produced, if a student withdraws from a class for any reason, this will be indicated on the transcript with a "withdraw" status.

Course Changes Procedure (After First Cycle)

Regardless of the reason for the student-initiated course change, students must have their request approved by the school's CORE team. A change of class form is available from the counselor or administration. The following shows the steps of the procedure:

1. Student: fills out the form, indicating that they have spoken with the teachers of the courses involved and explaining the reason for the request.
2. CORE team: makes a decision to allow the request or not.
3. Counselor: explains the decision to the student [ends here if request was denied]
4. Parent: signs the form
5. Counselor makes the change requested.

The student **MUST** continue to attend the class until the counselor has officially removed it.

PROGRAMS

Advanced Placement Program [AP]

The Advanced Placement (AP) Program was developed by the College Board to provide high school students with the opportunity to take first year university level courses. These courses are academically challenging. The demands of AP are such that it is difficult to experience success without a strong academic background, good time management skills, and a commitment to the program. Students are advised to discuss their request for an advanced course with the subject teacher. If you sign up for an advanced course and you have not demonstrated the necessary achievement level and background, you will be encouraged to take the academic course instead. These courses give the kind of background and preparation that will prove beneficial at university.

Students intending on taking AP courses will need to have taken Advanced level courses in the respective course as prerequisite. Examples are Advanced Biology 11 prior to AP Biology 12 and Advanced Chemistry 11 for AP Chemistry 12. A student should talk with the course teachers and guidance counselor to insure they have the correct course selection.

Students who successfully meet learning outcomes for AP courses are required to write Advanced Placement Exams. Exams for each course are set and marked by the College Board and are written in early May. Marks are usually available in late June or July. Many universities are willing to offer either advanced placement or advanced standing to students who do well on the AP exams. Each university has developed its own policy for Advanced Placement courses and students are advised to research this area at prospective universities.

Options and Opportunities [O2]

Options and Opportunities (O2) is a program designed to help students work toward a career or occupation in a learning environment that responds to their learning needs and that provides connections to the workplace and other post-secondary institutions. Successful completion of this 3 year program will result in a preferred seat at NSCC in the same year following high school graduation.

O2 is available for students entering grade 10. Students must apply for admission to O2 and participate with their families in an interview process. This interview process will happen in the latter part of grade 9.

O2 consists of the following components: Community Learning Partnerships, Skills for the Workplace, Head Start in a Career, Expanded Course Options, and Connecting with Families.

In addition to the regular graduation requirements, these students will be required to complete the following courses:

- Career Development 10
- Community Based Learning 10
- Career Development 11 (half credit)
- Workplace Health and Safety 11 (half credit)
- 3 Co-operative Education credits (100 hours each)

Integrated French/Francais Integre

Students wishing to be more proficient in French may choose to take "Francais Integre". These students would be continuing on with the program that they began at the middle school level. Students must successfully complete Francais Integre 10, 11, and 12, plus three French electives for a total of six French language credits to receive the "Certificat de Francais Integre". Classes are conducted entirely in French.

PROGRAM SUPPORT SERVICES

The Core Program Planning Team is designed to gather and review relevant information to best support our students in their programming. Teachers, students, parents and/or administration may make referrals for any Program Support to the Core Program Planning Team. This team consists of a representative from Administration, the Guidance Counselor, Program Support Teacher and at least one classroom teacher.

Individual Programs Plan [IPP]

When a student is not able to meet the provincial curriculum outcomes for a course an Individual Program Plan will be put in place which may include any or all of the following:

- Deletion of curriculum outcomes
- Adherence to the same general curriculum outcomes at a significantly different specific outcome level.
- Addition of new outcomes

Individual Program Plans are designed to recognize a student's strengths and meet their needs. The student's program is designed to offer challenging academic, social and life skills opportunities in a variety of educational settings. Within this plan students will be able to take courses that are designated specifically for students on an IPP. These students may also take mainstream courses but will be on an individually planned curriculum where necessary.

IPP is noted on the report card and on the transcript.

Documented Adaptations [DA]

Documented Adaptations are prepared for a student when instructional and evaluation strategies need to be altered in order to meet the outcomes of specific courses. This would be done in consultation with the school's Core Program Planning Team. Referrals may be made through your classroom teacher, the Guidance Office or the Learning Centre.

Learning Strategies Courses

These courses emphasize goal setting, learning strategies, study, organizational and test taking skills. Students may be recommended through the Core Program Planning Team. Speak to the school counselor for a referral or for further information

Centres

Within Forest heights Community school there are a number of centres which have been developed to assist and help individual students with their education. For further information about these locations contact the school administration and/or guidance counselor.

Learning Centre

This is a classroom that is designed and staffed to focus on students who are in need of learning life skills.

Resource Centre

This is an area that is designed and staffed to focus on students who are in need of academic skills.

Health Centre

This location is staffed by professionals to help students answer questions and concerns that are related to their physical and mental health.

Guidance

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

Section 2: FACULTIES AND COURSE DESCRIPTIONS

English Language Arts

Provincial graduation requirements state that students must successfully complete three (3) English credits, one each in grade 10, 11 and 12. Credit can only be given for one English course in any grade level. The course you select will depend on your ability in English/Language Arts and your future plans. Students who intend to go to university must take “academic” courses; students who intend to go to community college or to work may take “graduation” courses. Please check college requirements carefully, since some programs at college require academic English.

Grade 10 Courses

English 10 – Academic, 1 credit

This is a course designed to prepare students for senior high school English course options. Emphasis is placed on writing, oral presentations, class discussions in reaction to literature and other forms of communication. All students who are enrolled in English 10 are required to take the Grade 10 English Provincial Exam at the end of the course.

English 10 Pre-AP – Academic, 1 credit

This is a course designed to prepare students for AP English course options. Emphasis is placed on writing, oral presentations, class discussions in reaction to literature and other forms of communication. This course moves at a quicker pace with increased vocabulary demands and the study of material in-depth. All students who are enrolled in English 10 Pre-AP are required to take the Grade 10 English Provincial Exam at the end of the course.

English 10 Plus – Academic, 2 credit

This course is designed for students who have experienced difficulties in English Language Arts in grades 7-9 and require increased support in developing English Language Arts skills. This course has an emphasis on writing, oral presentations, class discussions in reaction to literature and other forms of communication. This course prepares students for English Communications 11 & 12. All students who are enrolled in English 10 Plus with Support are required to take the Grade 10 English Provincial Exam at the end of the course.

Grade 11 Courses

Advanced English 11 – Advanced, 1 credit

Required prerequisite: Successful completion of the summer reading assignment.

Prerequisite: 75% in English 10 Pre-AP

The AP English Literature and Composition course is designed to engage students in the careful reading and critical analysis of imaginative literature. Through the close reading of selected texts, students can deepen their understanding of the ways writers use language to provide both meaning and pleasure for their readers. As students work through the curriculum outcomes, they will move from broader outlines of style and themes to smaller-scale elements of language.

English 11 – Academic, 1 credit

Prerequisite: 65% in English 10

This course centers on formal study of literary genres like novels and poetry, on media studies, creative writing, oral and written reports, and communication skills. Formal writing and research procedures are covered.

English Communications 11– Graduation, 1 credit

This course concentrates on more practical life skills of communication, reading, speaking and writing. This course is recommended for students planning on entering Community College after graduation. **This course is not recognized by universities for acceptance.**

Grade 12 Courses

AP English 12 – Advanced, 1 credit

Prerequisite: 75% in Advanced English 11

This is a continuation of Advanced English 11. Students are required to write the Advanced Placement exam.

English 12 – Academic

Prerequisite: 65% in English 11

This course is a continuation of English 11. This course aims to provide students with knowledge and skills required for success in post-secondary education as well as developing personal modes of access to literature and other forms of communication.

English Communications 12 – Graduation, 1 credit

This course is a continuation of English Communications 11. **This course is not recognized by universities for acceptance.**

English Second language 10 [ESL10], English Second language 11[ESL11] – Academic, 1 credit

ESL was specifically designed for International/ Exchange students and students who immigrated to Canada from different countries around the world. In this course, which qualifies as a full English credit, the four skills: speaking, listening, reading and writing are emphasized and developed through topics relating to Canadian culture and life. Students’ language ability is assessed throughout the course with the focus on becoming proficient in each of the four skills mentioned above. This course can also be used as a support class for students’ other subjects.

Mathematics

GENERAL COMMENTS

- Forest Heights offers a variety of mathematics courses— students’ choices should be based on their mathematical ability and future career plans.
- Because of the number of courses required to study calculus at post-secondary, it is extremely important that students consult the counselor early in their high school years to be sure they have the required courses necessary for future studies.
- Some outcomes are the same in each grade level but the level of expectation is different for each course.
- Beginning in Sept. 2013, Academic 10 and Advanced Math10 students will take 220 hours of mathematics (i.e. two full semesters in grade 10). Successful completion will result in two mathematics credits—one of these is an eligible credit for the two mathematics credits required for graduation. The other credit is an eligible credit for the “two others from mathematics, science, and/or technology.
- Students enrolled in Academic 10 and Advanced Math 10 will write a final provincial exam in June 2016.

The following chart may help to better understand the senior high mathematics offered at Forest Heights

Students taking	Grade 10	Grade 11	Grade 12
Non-academic Math	Mathematics Essentials 10 (110 hours) Mathematics at Work 10 (110 hours)	Mathematics Essentials 11 Mathematics at Work 11	
Academic Math	Mathematics 10 (220 hours)	Mathematics 11	Math Academic 12 Advanced Math 12
Advanced Math		Pre-Calculus 11	Pre-Calculus Math 12 AP Calculus Math 12

Homework is an essential component to success in senior high mathematics. Students of all levels are expected to do **at least a half hour of homework** in their math courses prior to each class. Forest Height’s Mathematics Department offers extra help to students, consult your course instructor.

Grade 10 Courses

Mathematics 10 – Academic, 2 credits

Required prerequisites: Successful completion of Grade 9 Math with a grade of 60% or higher.

Course content includes relations and functions, study of polynomials, patterns and equations of linear and exponential functions, right triangle trigonometry, measurement, area of figures, study of angles and financial unit. Students write a provincial exam in this course.

Mathematics at Work 10 – Graduation, 1 credit

Required prerequisite: Successful completion of Grade 9 Math

This course is designed for students who have experienced some difficulty in mathematics in their prior studies. Topics include measurement, area of figures, study of angles and right triangles, patterns and equations, different areas of consumer mathematics. Students write a provincial exam in this course.

Math Essentials 10 – Graduation, 1 credit

Required prerequisite: Successful completion of Mathematics 8

This is a practical mathematics course with greater emphasis on a hands-on approach. The focus is more on concrete activities, modeling and applications, and is designed for students who have not been able to achieve Grade 9 outcomes.

Grade 11 Courses

Mathematics Essentials 11 – Graduation, 1 credit

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

Prerequisite: Successful completion of Mathematics Essentials 10 or Mathematics at Work 10.

Mathematics Essentials 11 is designed for students who either do not intend to pursue post-secondary study or plan to enter post-secondary programs that do not have any mathematics pre-requisites.

The Mathematics Essentials pathway is 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 their everyday life and will become more confident in their mathematical abilities.

The typical pathway for students who successfully complete Mathematics Essentials 11 is Mathematics for the Workplace 12.

Students in Mathematics Essentials 11 will explore the following topics:

- mental mathematics; collecting, organizing and graphing data; borrowing money; renting or buying; household budgets; investing money; measuring; and 2-D and 3-D design, mathematics in content areas such as science and social studies.

Mathematics at Work 11 - Graduation, 1 credit, 1 credit

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

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

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 - Academic, 1 credit

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

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. These courses are to be taken consecutively, not concurrently.

There are two typical pathways for students who successfully complete Mathematics 11:

- For those students intending to follow the academic pathway, Mathematics 11 will be followed 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 require an academic or Pre-calculus mathematics credit).

- For those students intending to follow the advanced pathway, Mathematics 11 will be followed by Pre-calculus 11, and then Pre-calculus 12. Alternatively, students who successfully complete Mathematics 11 may choose to select a graduation level course in grade 12

Students in Mathematics 11 will explore the following topics:

- applications of rates, scale diagrams and factors, inductive and deductive reasoning, an introduction to proof, cosine law, sine law, spatial reasoning, statistics, systems of linear inequalities, and quadratic functions.

Pre-calculus 11 - Advance, 1 credit

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 quadratic functions.

Grade 12 Courses

Mathematics Essentials 12 (formerly called Mathematics for the Workplace)- graduation, 1 credit

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

Prerequisite: Successful completion of Mathematics Essentials 11 or Mathematics at Work 11. The prerequisite for Mathematics Essentials 12 must be taken and successfully completed prior to starting Mathematics Essentials 12. Therefore, these courses are to be taken consecutively, not concurrently, and the order may not be reversed.

The Mathematics Essentials pathway is 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 their everyday life and will become more confident in their mathematical abilities.

Mathematics Essentials 12 is designed for students who either do not intend to pursue post-secondary study, or plan to enter post-secondary programs that do not have any mathematics pre-requisites. The content of this course will help students work toward improving the mathematical knowledge base needed for work directly related to the trades. This course will be modular based and project oriented.

Students in Mathematics Essential 12 will do the following modules.

- Module 1: Measurement
- Module 2: Mini-project: Mathematics and Career Exploration
- Module 3: Ratio, Rate, and Proportion
- Module 4: Major Project: Math Preparation for the Workplace

Mathematics 12 - Academic, 1 credit

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

Prerequisite: Successful completion of Mathematics 11 or Pre-calculus 11. The prerequisite for Mathematics 12 must be taken and successfully completed prior to starting Mathematics 12. Therefore, these courses are to be taken consecutively, not concurrently, and the order may not be reversed.

The Mathematics pathway is 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. Mathematics 12 is the third course in this pathway. Students who select Mathematics 12 should have a solid understanding of the Mathematics 11 curriculum. Students in Mathematics 12 will study the following topics:

- borrowing money
- investing money
- set theory
- logical reasoning
- counting methods
- probability
- polynomial functions
- exponential and logarithmic functions
- sinusoidal functions

Pre-calculus 12 -Advance, 1 credit

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

Prerequisite: Successful completion of Pre-calculus 11. Pre-calculus 11 must be taken and successfully completed prior to starting Pre-calculus 12. Therefore, these courses are to be taken consecutively, not concurrently, and the order may not be reversed.

The Pre-calculus pathway is 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 who select Pre-calculus 12 should have a solid understanding of the Pre-calculus 11 curriculum.

Students in Pre-calculus 12 will study the following topics:

- transformations
- radical functions
- polynomial functions
- trigonometry
- exponential and logarithmic functions
- rational functions
- function operations
- permutations, combinations and the binomial theorem

AP Calculus 12 - advanced, 1 credit

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

Prerequisite: Successful completion of Pre-calculus 12.

This course includes the following topics: the concept of a limit, simple derivatives, properties of derivatives, derivatives of trigonometric, exponential and logarithmic functions, applications of derivatives - tangents, rates of change, motion, curve sketching, anti-derivatives, differential equations and applications of anti-derivatives. Students are required to write the Advanced Placement Calculus Exam

Sciences

A minimum of two (2) science credits are required for graduation requirements. The following courses are offered by the Science Department during the 2015-2016 school year. If students have any questions about any of the courses they should read the course descriptions, contact the department, any of the science teachers and/or guidance counselor.

If you have any questions about any of the courses listed, please feel free to talk to any of the teachers in the department.

Grade 10 Courses

Science 10AP – Academic, 1 credit

Science 10 AP is an introductory science course that serves as a foundation for further studies in science; particularly for those students looking to take Advanced Placement courses in Biology, Chemistry and studies in Physics.

Science 10 – Academic, 1 credit

Science 10 is an introductory science course that serves as a foundation for further studies in science; particularly in Biology, Chemistry, Physics, and all other science courses.

Grade 11 Courses

Advanced Biology 11 – Advanced, 1 credit

Recommended co-requisite: Enrolment in Chemistry 11 or Advanced Chemistry 11

Recommended prerequisite: 75% in Science 10

This is the first year of the AP Biology course. Topics include: cell biology including cell parts and function and cell transport; Genetics and basic Mendelian Genetics; Protein synthesis including DNA, RNA and genetic engineering.

Advanced Chemistry 11 – Advanced, 1 credit

Recommended prerequisite: 75% in Science 10

This is the first year of the advanced Chemistry course. It provides students with an introduction to Chemistry. Major topics in the grade 11 year include: Matter, Atomic Theory, Isotopes, The Periodic Table, The Mole, Names of Compounds, Chemical Reactions, Stoichiometry, The Wave Mechanical View of the Atom, Chemical Reactions and Periodic Properties, The Gas Laws, Solutions and Their Behaviour, Organic Chemistry.

Biology 11 – Academic, 1 credit

Recommended prerequisite: Successful completion of Science 10

The main units of study are cells and cell structure, energy – photosynthesis and cellular respiration, classification of living things and human physiology.

Chemistry 11 – Academic, 1 credit

Recommended prerequisite: Successful completion of Science 10

This course provides students with an introduction to Chemistry. Topics covered include naming, chemical reactions, bonding, moles, stoichiometry, solutions and organic chemistry. This course is designed for those students who require Chemistry for further studies including some university and college science programs, Agricultural College and nursing.

Human Biology 11 – Graduation, 1 credit

This course provides a second science credit. It concentrates on the study of the human body and its interactions with the environment. Topics covered include: skin, bones and muscles: diet and nutrition living with your digestive system, cardiovascular health, healthy lungs – healthy breathing, the immune system, the nervous system, and the reproductive system. Each topic begins at the biological level and then looks at the personal level. It then expands to include relevance within society as a whole. **Note: credit will not be given, toward the total of 18, for HB 11, if a credit has already been received in BIO 11.**

Oceans 11 – Academic, 1 credit

This course offers students the opportunity to explore aspects of global and local oceanography and current issues. It is designed to be flexible and meet the needs and interests of Nova Scotian students by connecting the study of oceanography with local economic and community interests. One of the priorities of the course is to increase students' knowledge of emerging economies and opportunities in areas such as aquaculture and oceans management that offer new career opportunities. Topics may include: oceans-structure and motion, the marine biome, aquaculture, the fisheries resource, coastal zones, ocean industries, and coastal navigation.

Physics 11 – Academic, 1 credit

Required prerequisite: Successful completion of Science 10 and Mathematics 10

This course builds on the physics content of Science 9 and Science 10. Topics - Nature of Light; Geometric Optics, Reflection, Refraction, Characteristics and Behaviours of Waves; The Nature of Sound; Motion in a Straight Line; Force and Newton's Laws; Motion in a Plane and Vectors-Graphical Approach.

Grade 12 Courses

AP Biology 12 – Advanced, 1 credit

Recommended prerequisite: 75% in Advanced Biology 11

This is a continuation of the Advanced Biology 11 course. Major topics covered include cellular respiration, photosynthesis, human physiology, evolution and ecology. It is recommended that students have some chemistry knowledge as the first few units deal with biochemistry. By choosing AP Biology 12, students can expect to cover the curriculum of academic Biology 12, in addition to some units specific to AP. Students will also be required to write the AP exam in May.

AP Chemistry 12 – Advanced, 1 credit

Recommended prerequisite: 75% in Advanced Chemistry 11

This is a continuation of the Advanced Chemistry 11 course. Major topics in the grade 12 year include: Thermodynamics, Oxidation-Reduction Reactions, Colligative Properties, Chemical Kinetics, Chemical Equilibrium, The Nature of the Equilibrium State, The Chemistry of Acids and Bases, and Electrochemistry. Students, who choose this course, can expect to cover the entire Chemistry 12 curriculum as well as some units specific to AP. Students are required write the AP exam in May.

Biology 12 – Academic, 1 credit

Recommended prerequisite: Successful completion of Biology 11

Topics covered in Biology 12 include: cell division – meiosis and mitosis; genetics – Mendelian Genetics and molecular biology; human nervous system – structure and function; human reproductive system, evolution.

Chemistry 12 – Academic, 1 credit

Required prerequisite: Successful completion of Chemistry 11

Recommended prerequisite: Successful completion of Advanced Math 11 or Math 11

Chemistry 12 covers more specialized Chemistry concepts, and a firm grasp of Chemistry 11 is required. Four of the major topics are Thermo-chemistry, Oxidation – Reduction and Electrochemistry, Equilibrium and Acids and Bases. Chemistry 12 is designed to closely follow first year university chemistry courses and is essential should the student desire further study of this subject at the university level.

Physics 12 – Academic, 1 credit

Required prerequisite: Successful completion of Physics 11

Physics 12 focuses on the study of dynamics. Topics - Mechanics; Vector Review; Impulse and Conservation of Momentum; Gravitational Potential Energy; Electricity; Electric Forces and Charge; Electric Field and Potential; Current Electricity and Electromagnetism; Magnetism; Electromagnetic Spectrum; Photons; Radioactivity; Matter Waves; The Rutherford Model of the Atom; Nuclear Energy.

Food Science 12 – Open, 1 credit

This course satisfies the second science credit requirement for high school graduation. It is important to note that Food Science 12 has been designed to meet the needs of a wide range of learners. Students will investigate ideas concerning food preparation, preservation and packaging and will also investigate what makes food nutritious and how prepared food is produced and marketed. Students will investigate these ideas by actually preparing food in a kitchen environment and analyzing some of the scientific aspects of food in a lab environment. Students will complete individual and group assignments and lab activities.

Social Studies

For graduation requirements students will need to take and pass one Canadian Studies credit, and one Global Studies credit. If students have any questions about any of the courses they should read the course descriptions, contact the department, any of the social studies teachers, and/or guidance counselor.

Here is an overview of courses being offered for the 2013-2014 school year in Social Studies.

Grade 10	Grade 11	Grade 12
History 10 Mi'kmaq Studies 10**	Geography of Canada 11 Canadian History 11**	Economics 12 Global Geography 12* Global History 12* Law 12 Sociology 12 Political Science 12
** Counts as the Canadian Studies credit for Graduation. * Counts as the Global Studies credit for graduation.		

Grade 10 Courses

History 10 – Academic, 1 credit

This course will examine ancient cultures that have influenced the evolution of Western civilization. The cultures include: ancient Mesopotamia, ancient Egypt, ancient Minoan & Mycenaean cultures, ancient Greece and ancient Rome.

Mi'kmaq Studies 10 – Academic, 1 credit

The course looks at the past, present and future of the Mi'kmaq people in a cultural, political, spiritual and judicial manner. There is an integrated theme of social justice.

Grade 11 Courses

Canadian History 11 – Academic, 1 credit

The course covers the history of Canada from pre-European contact through to present day, including such topics as Canada's place in the world and Canadian economics, government, identity, and justice. This course fulfills the Canadian Studies requirement.

Geography of Canada 11 – Graduation, 1 credit

Geography 11 emphasizes process rather than content. Communication and thinking skills are stressed in this comprehensive, thematic study of Canada. Students learn about the variety of landforms, and how Canadians inhabit them.

Grade 12 Courses

Economics 12 – Academic, 1 credit

Economics 12 is study of the Canadian Economy, explored through the discussion of economic issues and problems. It is recommended that students have a strong background in social studies.

Global Geography 12 – Academic, 1 credit

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. Global Geography fulfills the Global Studies requirement for graduation.

Global History 12 – Academic, 1 credit

This course develops a balanced perspective and a context about events and issues in world history. Global History fulfills the Global Studies requirement for graduation.

Law 12 – Academic, 1 credit

This course is designed to provide students with knowledge of law and its function in society. Topics may include criminal law, policing, arrest and investigation, sentencing, and tort law.

Political Science 12 – Academic, 1 credit

This course will introduce students to the study of political ideas, theories, and structures. Attention will be given to significant political theories developed throughout history.

Sociology 12 – Open, 1 credit

This course explores the role of people in society and may cover some controversial topics. Students registered in English Communications 12 should consider this level of sociology.

Sociology 12 – Academic, 1 credit

This explores the role of individuals as they fit into the larger society and contains a theoretical component. It may cover some controversial topics. Students wishing to continue the study of social sciences in university or human services at a post-secondary institution should consider this course as a good introduction.

Specialist

For graduation requirements students are required to have a taken and passed a fine arts credit, and a physical credit. For some students based on course choices and future career plans they will be required to take a number of technology courses to meet their graduation requirement.

Arts Education

Grade 10 Courses

Drama 10 – Academic, 1 credit

Drama 10 is a highly participatory course that explores improvisational and theatre skills. Operating within a supportive atmosphere, students will be exposed to a variety of situations designed to build experience and confidence. This course fulfills a fine arts credit.

Music 10(Guitar) – Academic, 1 credit

Students enrolled in the Music 10 Academic course will work on theory, which involves notation, and construction of scales, metres, clefs, simple forms and textures. In addition to their regular coursework, students will participate in an in-class guitar ensemble. No previous musical experience is needed. There is a \$60 instrument rental fee. This course fulfills a fine arts credit.

Music 10(Instrumental) – Academic, 1 credit

Students enrolled in the Music 10 Academic course will work on theory, which involves notation, and construction of scales, metres, clefs, simple forms and textures using an assigned musical instrument. In addition to their regular coursework, students will participate in an in-class ensemble. No previous musical experience is needed. There is an instrument rental fee. This course fulfills a fine arts credit.

Visual Arts 10 – Academic, 1 credit

Art 10 is the foundation level course for the visual arts. It is one of the options for the Fine Arts graduation requirement and the prerequisite for Visual Arts 11 and 12. Students will have the opportunity to explore various mediums. This course fulfills a fine arts credit.

Grade 11 Courses

Drama 11 – Academic, 1 credit

Recommended prerequisite: 65% in Drama 10

Drama 11 continues to build on the skills and confidence developed in Drama 10. The focus of Drama 11 shifts from foundations to performance, with character development and stage work playing a larger role. Improvisation remains a key component of Drama 11, with individual and group performances.

Music 11(Guitar) – Academic, 1 credit

Recommended prerequisite: Music 10

Music 11 is a continuation of Music 10. It is expected that students have a basic knowledge of music theory in order to be successful in this course. In addition to their regular coursework, students will participate in an in-class guitar ensemble.

Visual Arts 11 – Academic, 1 credit

Recommended prerequisite: Successful completion Visual Arts 10

This second level course builds on the basic skills learned in grade ten. This course is intended for student looking to make a career that involves the application of visual arts.

Grade 12 Courses

Drama 12 – Academic, 1 credit

Recommended prerequisite: 65% in Drama 11

Drama 12 continues to build on the skills and confidence developed in Drama 11. The focus of Drama 12 is on performance, with character development and stage work playing a larger role. Improvisation remains a key component of Drama 12, with individual and group performances.

Music 12(Guitar) – Academic, 1 credit

Recommended prerequisite: Music 11

Music 12 continues to build upon the skill and knowledge that a student has developed. It is expected that students have a basic knowledge of music theory in order to be successful in this course. In addition to their regular coursework, students will participate in an in-class guitar ensemble.

Visual Arts 12 – Academic, 1 credit

This senior level requires students to work independently to make imaginative decisions and choices. Units of study include: acrylic gels, glass fusion, clay wheel throwing and mixed media. Students are required to do homework to assemble a personal portfolio and to complete the written portion of the course. The course concentrates on an understanding of the Principles of Design. Attendance is essential to succeed in this course. Visual Arts students work independently completing a minimum of seven (7) art works per credit. Students are required to perform two (2) take home exams (portfolio style) per credit.

Business Education

Grade 12 Courses

Entrepreneurship 12 – Academic, 1 credit

This course is designed to offer an active hands-on learning experience to develop the attitudes, skills and knowledge required to be a successful business owner. Students will be expected to plan, execute, and evaluate their own business venture. This course is recognized by some, but not all universities. Please check entrance requirements.

Family Studies

Grade 10 Courses

Food For Healthy Living 10 – Open, ½ credits, and International Foods 10 – Open, ½ credits

These are two ½ credit courses, which are combined to make a full credit. The **Food for Healthy Living** unit will focus on how our overall health is affected by our food choices. Students will plan and prepare meals that complement healthy life choices. The **International Foods** unit will explore diverse historical, geographical, cultural and nutritional components of international cuisine.

Grade 11 Courses

Child Studies 11 – Open, 1 credit

(This course will be offered in the 2014-2015 school year)

Child Studies is designed to develop an understanding of child development as well as the care and guidance of children. This course is developed around five modules: Decisions about Parenthood, The Beginning of Parenthood, Early Childhood Development, Special Concerns in Child Development, and Practical Experiences with Children.

Grade 12 Courses

Food Studies and Hospitality 12 – Open, 1 credit

This course is a hands-on program designed to give students a foundational knowledge of culinary arts. Students will learn safety and sanitation procedures and standards in the food service industry, recognize the connection between production and service of food, as well as compare and contrast cooking methods as applied to various foods.

Canadian Families 12 – Open, 1 credit

This course is designed to help students develop an understanding of the personal, family, cultural and economic factors related to lifestyle choices made by Canadians today. Students will examine the physical, social and emotional dimensions of family health.

French Second Language

Integrated French 10 – Academic, 1 credit

Prerequisite: Grade 9 Integrated French

This course forms the language component required for the Integrated French certificate. It is the continuation of the integrated French program beginning in grade 7. The integrated French program offers students the opportunity to increase their comprehension and proficiency in French. Through a variety of written, spoken, and literary experiences, students explore the diversity of the French language and culture. Similar to the immersion program, integrated courses are offered entirely in French and focus on the development of strong oral interactions and written skills.

Histoire Ancienne et Medieval 10 – Academic, 1 credit

Prerequisite: Grade 9 Integrated French

This course is available to any Integrated French student. In this course they explore the ancient world and its great civilizations; from Egypt and the cradle of civilization, the Far East and South America, the empires of Greece and Rome and a few more in between. Students will gain a sense of how these ancient cultures have shaped our world today, and uncover some of the secrets of humanity. This course can be counted towards an Integrated French certificate.

Core French 10 – Academic, 1 credit

Prerequisite: Grade 9 French

Oral communication in French is the goal of this course, using authentic materials to support classroom activities. This is a good course for those motivated to expand their French experience and learn to use it on a regular basis.

Core French 11 – Academic, 1 credit

Recommended prior course

Core French exposes students to a variety of proficient language models and French is the main language of the classroom. Core French 11 builds upon the knowledge obtained in French 10.

Core French 12 – Academic, 1 credit

Recommended prior course

Core French exposes students to a variety of proficient language models and French is the main language of the classroom. Core French 12 builds upon the knowledge obtained in French 11.

Personal Development and Career Education

Co-operative Education 10, 11, 12 – Academic

Co-operative Education is designed to provide an opportunity for students to explore a career choice through a community work placement. Students must complete a 25-hour in-school component that involves developing job readiness skills. After completion of the in-class component students will complete a 100-hour work placement. Students are awarded one full high school credit for each 100 hour placement completed. Co-operative education works best when it is a co-operative effort among the student, teacher, parent/guardian and employer. Students must be 16 years of age before beginning any work placement. Any student can be considered for a Co-op course but must go through an application and interview process.

Grade 10 Courses

Career Based learning 10 – Open, 1 credit (Offered to O2 students only)

Community-Based learning enhances students' personal development, their sense of belonging to their community, and their understanding of community roles and responsibilities. Community-based experiences improve student's understanding of employment requirements and the links between the knowledge, skills and attitudes they are acquiring in school and their future plans.

Career Development 10 – Open, 1 credit (Offered to O2 students only)

Career Development 10 is a full-credit course designed to focus on personal development, career awareness, workplace readiness, financial management, lifework portfolio. This course is an opportunity for the student to explore realistic personal goals, assess their own abilities, and realize these actions will affect their learning and decision-making processes.

Grade 11 Courses

Career Development 11 – Open, ½ credits (Offered to O2 students only)

Career Development 11 is a half-credit course to be combined with a half-credit in Workplace Health and Safety. In Career Development 11, O2 students continue their exploration of career preparation and refine their understanding of world of work and personal finance.

Workplace Health and Safety 11 – Open, ½ credits (Offered to O2 students only)

Workplace Health and Safety 11 is a half-credit course to be combined with a half-credit in Career Development 11. O2 students will develop an understanding of the fundamentals of workplace health and safety, rights and responsibilities, and the nature of workplace hazards and factors contributing to them.

Physical Education

Grade 11 Courses

Physically Active Living 11 – Open, 1 credit

This course is designed to engage students in a wide range of physically active experiences, with an overall theme of exploring options and opportunities for being active in life, both in school and in their community. This course fulfills a Physical Education credit.

Physical Education 11 – Open, 1 credit

Recommended prerequisite: Students must have successfully completed PAL 11 or Physical Education 10.

This course will be a continuation of the skills and theories developed in Physical Education 10. There will be a greater focus on leadership skills. There is a volunteer component to the curriculum.

Yoga 11 – Academic, 1 credit

This course introduces students to the tradition of yoga with its various forms and styles and provides students with the opportunity to develop a personal practice of yoga to maintain vibrant health, enhance healthful relationships with self and others. Students will develop an understanding that yoga can be enjoyed as a regular form of physical and leisure activity throughout the lifespan. Throughout the course, students will be participating in various learning experiences which will include physical practice, personal reflection, group discussion and classroom theory

Grade 12 Courses

Physical Education 12 – Open, 1 credit

Recommended prerequisite: 65% in Physical Education 11

This course will be a continuation of the skills and theories developed in Physical Education 11. There will be a greater focus on leadership skills. There is a volunteer component to the curriculum.

Technology Related Education

Grade 10 Courses

Skilled Trades 10 –Academic, 1 credit

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 experience in a very visceral way what life and learning in the skilled trades feels like. The course is delivered in a special learning environment. The topic areas of study are skilled trades living, safety, measurement and calculation for trades and tools and materials of the skilled trades. *This course fulfills a technology credit.*

Grade 11 Courses

Business Technology 11 – Academic, 1 credit

This course introduces students to a range of business productivity software tools and their applications. Students will develop a basic proficiency in touch keyboarding, integrate touch keyboarding skills with skills in document processing and design, create spreadsheets to manage data, apply the principles and practices of desktop publishing, and explore business productivity software. *This course fulfills a technology credit.*

Construction Trades 11 –Academic, 1 credit

Prerequisite: Skills Trades 10

Construction Trades 11 is an extremely demanding course that immerses students in the day-to day realities of completing a real construction project to a very tight timeline. Students work from a detailed set of plans and specifications to which they build a complete unit that must conform to expectations. *This course fulfills a technology credit.*

Design 11 – Academic, 1 credit

Recommended prerequisites: Art 10

This hands-on course explores the application of skills and knowledge to explore visual, structural and organizational relationships. Topics may include computer aided drafting and design, web page design and drawing and sketching. *This course fulfills a technology credit.*

Grade 12 Courses

Film and Video Production 12 – Academic, 1 credit

In this course, students will be expected to explore a variety of materials, methods, issues and ideas in relation to Film and Video production. *This course fulfills a Technology credit.*

Section 3: External Courses

There are a number of avenues available for students to acquire graduation credits which are different to the normal school environment.

Correspondence Studies

There are situations and/or extenuating circumstances where the provision of the Public School Program or specific courses therein, may not be available to students. An option that maybe available for a student to do is a course that is offered by the Department of Education is through correspondence. To learn more about this option one should talk with the school guidance counselor.

Virtual High School [Online Courses]

Students who wish to do online courses may find out more information about NS Virtual School at <http://nsvs.ednet.ns.ca/m19/>

Challenge for Credit.

A high school student may have acquired the knowledge, skills, and attitudes that an existing course seeks to develop outside of the school setting. Students are given the opportunity to challenge for such a credit which would go toward high school completion. For more information about this process see the SSRSB policy 267 or talk with the school's guidance counselor.

After School Activities

Certain programs offered by such organizations as Junior Achievers, Cadets, 4H, Duke of Edinburgh and Dance Nova Scotia can be used for graduation credits. Talk with various organization representatives or the school guidance counselor for further information about getting and applying these credits.

Section 4: Grade 9

Courses of Study

The prescribed courses for Grade 9 are:

- English Language Arts 9,
- French 9,
- Mathematics 9,
- Healthy living 9,
- Physical Education 9,
- Science 9,
- Social Studies 9,

[Integrated French 9, and Integrated Sciences Humaines 9 are offered for student who have started the integrated French program]

Students in grade 9 will also be taking each of the following courses in quarterly sessions:

- Art 9,
- Family Studies 9,
- Music 9, or
- Technology Education 9.

Information and communication technologies are integrated within the prescribed courses; the Grade 9 program does not include discrete computer-related studies.

Physical Education is a compulsory subject in junior high schools through-out this province. Medical reasons are acceptable for non-participation, but exemptions from the program may require a medical certificate from the student's doctor. Proper Physical Education attire is required and expected.

Each school is also required to provide programming and services for students with special needs

Exploratory Options

Exploratory options (sometimes called mini-courses) may be provided to extend the curriculum and provide enrichment opportunities for Grade 9 students. Exploratory options may be designed as a component of compulsory or elective courses but may not replace program requirements noted above. Exploratory options will contribute to the students' achievement of specific curriculum outcomes in one or more subject areas and will reflect the developmental needs of the student.

Exploratories may be offered for short periods of time during the year.

Grading and Promotion

Students who meet the learning outcomes in the compulsory courses are promoted to the next grade level in June of each year.

Students who do not meet the learning outcomes for compulsory courses may be retained in the grade. However, they could also be placed in the next grade level, depending on circumstances.