

# Course Selection Guide 2026 – 2027

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J.L. Isley High School





## 2026-2027 COURSE SELECTION BOOKLET

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## Introduction

The information contained in this booklet has been prepared to help students choose the programs of studies best suited to their interests, abilities and future goals. Registration usually begins in February of each year. School Counsellors will initiate the process by meeting with students in a large group format, followed by the opportunity for individual sessions. Parental input is a very important component in this process. We will host a parent information session in February. It is expected that the course request process for grade 9's will be completed by March Break and for Grade 10's and 11's by April. All changes to a student's course request need to be completed by May. Grade 9s will need to have their parents reach out to their School Counsellor for any changes.

## Additional Notes

- In June, if a student receives a failing mark in a compulsory course, we will try to re-registered for that course for the following year. It is the student's responsibility to reach out to their School Counsellor.
- Schools are staffed based on the course requests made by students in the spring of each year. **Therefore we may not be able to make course changes for students in September, unless a student has a scheduling conflict or has a change in post-secondary plans.**
- Due to low enrollment or over-subscription, certain courses may be adjusted on student course requests. In such situations the School Counsellor will choose from the student's alternate course requests.

## Contact Information for School Counsellors

<b><i>For current J. L. Ilsley students</i></b>		
Surnames A-F: Leah Ann Cameron	479-4612 ext. 5701007	LCameron@hrce.ca
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**\*\*\*\* If a student needs to see a Counsellor and your Counsellor is not available, you are always welcome to see any of the Counsellor that is available.**

## **Credit Types**

### **Advanced Placement**

These courses are recognized by some universities as being at a first year university level and students may receive credit or advanced standing for high achievement in these courses.

### **Advanced**

Advanced courses are designed to meet the needs of students who have demonstrated an exceptional degree of academic ability or achievement and are planning post-secondary study at university or community college.

### **Academic**

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

### **Open**

Although none of the open courses is designed to meet the specific entrance requirement of any post-secondary institution, individual courses may meet entrance requirements of some institutions.

### **Graduation**

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

### **Semestering**

In a semestered school the year is divided into two equal semesters. The semesters run as follows: Semester 1 September to January; Semester 2 February to the end of June. During each semester a student may take up to four courses. Each semester ends with a final examination period. \*\*\*\*In some circumstances some courses may run all year, every other day.

In a semestered school a student has each course every day. Every effort will be made to balance the load of subjects between semesters. Consult with your Counsellor if you have any timetabling concerns.

Grade 12 students apply to post-secondary institutions at the end of the first semester. Please note that some Grade 11 marks are used by universities in conjunction with the Grade 12 marks to determine an admission average and award scholarships.

## **High School Awards**

An academic awards ceremony is held to recognize the achievement of grade 10 and 11 students from the previous year. Certificates are awarded for Honours (80%-85.9%), High Honours (85%-89.9%), Principal's List (90% or above) and subject prizes. In addition, a plaque with student names is placed in the school to acknowledge award recipients.

The following criteria will be used when calculating averages for student recognition:

- ✓ Averages will be calculated using all the courses the student was enrolled using a straight average (there will be no mark below restrictions).
- ✓ There will be no minimum number of courses enrolled in to qualify for the mark distinctions.

## **Challenge for Credit and Independent Study**

The challenge for credit process allows a school to recognize that a student has already acquired the skills, knowledge and attitudes that an existing course seeks to develop. Challenge for credit may occur in fine arts, languages, mathematics and physical education. In order for a challenge to be successful it is expected that students' prior experiences have significant educational value and are directly aligned with the learning outcomes of the course being challenged.

Independent study credits help promote individualized programming and are not intended to replicate any existing course in the public school program.

## **Personal Development Credits**

### **What are Personal Development Credits?**

A credit is awarded when a person achieves all of the requirements in an area of training or learning. The Department of Education and Early Childhood Development's Personal Development Credit was designed to recognize the achievements of students who successfully complete courses or meet all of the assessment standards of organizations that are external to the high school system.

Under the policy, personal development credits can be awarded in three areas:

1. Arts
2. Languages
3. Leadership

Credits will be awarded for approved courses or programs provided by a group or organization that is recognized by the Department of Education and Early Childhood Development as an approved Course or Program Provider. In recognizing an organization, the Department of Education and Early Childhood Development ensures that the courses or programs offered are high quality, support provincial *Principles of Learning*, do not duplicate courses that are part of the public school program for Nova Scotia high schools, and allow students to work toward achieving Nova Scotia's *Essential Graduation Learnings* (EGLs). Students in grade 10, 11, or 12 may have a personal development credit recognized on their high school transcript when they are able to provide evidence of successfully completing a recognized course or program to a guidance counsellor or administrator at their school. The policy also allows students who have earned the credential required for a personal development credit while attending junior high school to apply to have the credit recognized as a grade 10, 11, or 12 elective credit once they enter high school. Depending on the curriculum or assessment criteria (i.e., what students will know and be able to do when they have earned a credential), the Department will determine whether a personal development credit

qualifies as a grade 10, 11, or 12 credit. Based on the time involved in earning the credit, the Department will also decide if the credit qualifies as a half or full credit.

### **Course Load Requirements**

- Grade 10 students must register for 8 courses per year, 4 in each semester.
- Grade 11 students must register for 7 courses per year, 3 in one semester and 4 in the other.
- Grade 12 student must enroll in a minimum of 6 courses per year, 3 each semester.
- Returning graduates will be accepted provided there is room. Course selection will be accommodated on course availability in September.

### **Course Requests**

- All courses offered are conditional upon adequate enrollment. It may also be necessary to limit the number of students in a course because of space, safety and other factors.
- Course changes in September or throughout the year will be based on academic need and assessed on an individual basis only in exceptional circumstances. **Course requests in the spring for September should be considered final.** All students are expected to follow their second semester timetables for courses assigned in September. Repeating failed courses in second semester should not be expected.
- It is the responsibility of the student to change his or her course level, if required, due to failure of a subject at the end of the year. This should be done in June after picking up final marks and before leaving school.
- Students and parents are encouraged to use the services of School Counsellors, Department Heads, Subject Teachers or Administration for information on course requests, career and educational opportunities, study skills, and other areas of concern. Refer to the Nova Scotia Graduation Requirements section on page 6.
- Investigate the entrance requirements of your chosen post-secondary institution: Community College, University, etc., so that you request the required subjects. **Please note that graduation from high school does not necessarily qualify a student to enter university or other institutions that offer professional training. Specified prerequisites, both in courses and in standards (marks), in those courses may be required.**

## **Resource Support/Learning Center**

Resource staff at J. L. Ilsley High School are aware of the educational implications of various cognitive, sensory, physical, social and emotional factors that affect students. They offer a service that provides assistance with course work and assignments as part of a student's daily schedule.

The Resource classes and Learning Center also:

- Provide a "base" and advocacy for students with Individual Program Plans or students requiring course adaptations.
- Assist teachers in providing technology and materials to support Individual Program Plans and course adaptations for individual students.
- Liaise with all school departments to help ensure that student needs are met in the classroom.
- Participate in the ongoing communication process with parents and administration regarding achievement and attendance.

## **Learning Supports**

### **EAL PLACEMENT AND LITERACY ASSESSMENT**

EAL students are encouraged to pursue courses in high school which both strengthen their literacy competency and help them pursue their academic goals.

EAL students who are newcomers to our school area, or who arrive throughout the school year, write a literacy assessment test to determine their English language competency levels.

Typically, students working at a Literacy 1 level require the greatest amount of language assistance while students working at a Literacy 5 level require minimal language support. However, all EAL students are encouraged to seek support from their teachers, guidance, and support staff such as our YMCA support.

### **EAL**

This course is for students who are new to Canada with varying proficiency levels in English and new to the subject of English Language Arts. It is a grade 10 elective credit designed to prepare bilingual/multilingual learners for success in English 10. As this course is intended to be a preparedness course for English 10, the content and organization of EAL 10 is similar ensuring that students will have the knowledge, experience, and language proficiency to achieve success in English 10. In summary, the EAL10 course is developed for students new to the English language, Canadian culture and the academic subject of English Language Arts.

## Advanced Placement (AP)

### (Limited spots: Expression of Interest form available in Guidance)

AP courses offer grade 12 students the opportunity to pursue university level studies while in high school. These courses provide students with a challenging curriculum and prepare them well for university studies. The AP program has internationally recognized standards and therefore creates opportunities for students to be accepted into highly competitive programs. Based on their performance in rigorous AP examinations held worldwide on set dates, students can earn credits or advanced placement at most universities in Canada and the US. In our ongoing effort to provide enrichment opportunities for students, we offer Advanced Placement (AP) courses in AP English 12, AP Chemistry 12, AP Calculus 12 and AP Biology 12. Students who are considering advanced placement in their grade 12 year should enroll in Pre-AP courses in grade 10 and 11. For more information please check the website at [www.apcentral.collegeboard.com](http://www.apcentral.collegeboard.com) or the Canadian Website: [www.ap.ca](http://www.ap.ca)

### What are the benefits of AP?

There are many benefits to taking AP.

- **Enrichment** – challenge yourself with rigorous academic courses.
- **Flexibility** – choose courses based on your academic strengths and interests.
- **Preparation** – experience university-level expectations and content to help you prepare for university studies.
- **University Recognition** – earn credit, advanced placement, or both, based on your performance on standardized, demanding AP examinations.

### Who should enroll in AP courses?

- Students who have a demonstrated record of achievement and a desire to attend university.
- Students who have a willingness to meet the challenges of a rigorous academic course.

Consider the AP challenge if you're ready to explore a subject in greater depth, learn to make connections with larger concepts, develop analytical reasoning skills and form disciplined study habits that will contribute to your success at university.

## Requirements

### Nova Scotia Graduation Requirements

18 credits are required to graduate

- 13 of these are compulsory
  - 3 English Language Arts (one at each grade level)
  - 3 Mathematics (from three different grade levels)
  - 2 Sciences (a “first science” credit and 1 other – see course descriptions)
  - 1 Canadian History course (Canadian History 11, African Canadian Studies 11 or Mi’kmaq Studies 11)
  - 1 Global Studies (Global Geography 12, Global History 12 or Global Politics )
  - 1 Physical Education (from Phys Ed 11, Physically Active Living 11, Martial Arts 11, Yoga 11, and Phys Ed 12)
  - 1 Fine Arts (Visual Arts, Drama, Music or Band)
  - 1 other credits from Technology, Mathematics or Science
- No more that 7 of the 18 credits may be from courses coded as Grade 10 and at least 5 must be from courses coded as Grade 12.
- Only one credit will be given for a course in the same subject at the same grade level, although both will show on the student transcript. For example, if a student completes English Communications 12 and English 12, it will only count as one credit toward the 18 credits required for graduation.

### Post-Secondary Admission Requirements

Listed below are the grade 12 courses required for several post-secondary programs. It is important to check the specifics for each institution as they vary, especially outside Nova Scotia.

#### University Entrance Requirements

- **Bachelor of Arts**  
English + 4 other academic courses
- **Bachelor of Science**  
English, Pre-Calculus Math, 1 Sciences (Some schools 2 Science) + 2 other academic courses
- **Bachelor of Commerce**  
English, Mathematics (in some cases Pre-Calculus) + 3 other academic courses
- **Bachelor of Engineering**  
English, Pre-Calculus Math, Chemistry, Physics + 1 other academic course  
Calculus is required for Science and Engineering in many universities outside of Atlantic Canada
- **Bachelor of Computer Science**  
English, Pre-Calculus Math + 3 other academic courses  
(some institutions require grade12 science courses)
- **Bachelor of Nursing**  
English, Math (academic) Chemistry, Biology + 1 other academic course

**Community College Entrance Requirements** Grade 12 or equivalent (some programs have specific subject requirements, particularly in mathematics and science). Please check admission requirements at Nova Scotia Community College (nsc.ca). **Grade 11 students are encouraged to apply to NSCC to increase their chances of admission in their grade 12 year**

## French Immersion Certificate

Students who have successfully completed grade 9 in a French Immersion program are eligible to continue their French Immersion studies in high school.

A French Immersion certificate from N.S Dept. of Education will be awarded to students who pass 9 academic credits in subjects taught in French (including French language arts in Grade 10, 11, and 12). Students who wish to obtain a French Immersion Certificate must take 5 French Immersion courses in Grade 10. Students are required to take a minimum of two French Immersion courses per year.

The program of studies is outlined below:

Grade 10	Grade 11	Grade 12
Art Dramatique 10 Imm Français Immersion 10 Yoga 11 Imm Sciences 10 Imm <i>Le cours d'études canadiennes contemporaines 11<sup>e</sup> (ECC 11)</i>	Biologie 11 Imm Français Immersion 11	Français Immersion 12 Géographie Planétaire 12 Imm

### Why Study French at High School?

- By continuing in French Immersion in high school students are able to maintain and extend their French skills. The French Immersion program is designed to maximize the time spent using French.
- Research has shown that students who learn another language develop keen analytic, restructuring, and divergent thinking skills.
- As the job market and the workplace change due to our global economy, it has become even more important to have a thorough knowledge of at least one other language.
- Having proficiency in a second language gives students an advantage in the competitive job market, and more opportunity for upward mobility. Research has shown that workers who speak both official languages earn more than those who speak only English or French.
- We live in a country that is officially bilingual and the ability to converse in both official languages is an asset. It enhances one's ability to participate fully in Canadian society.

## **High Skills Technology Certificate**

High Skills Major is a certificate program for high school students which focuses on technology coursework to develop key competencies and skills for transitioning from high school and into further education or employment. This program is designed to enhance student engagement and increase awareness of career pathways in technology, while also strengthening connections with the community and local industry.

The High Skills Major in Technology involves completing a minimum of three technology courses and a Co-operative Education course while engaging in community-based learning to provide practical, real-world experience. Students are also required to earn six training certificates and credentials that are highly valued by employers and post-secondary institutions, with a strong focus on technology-related skills.

Enrollment in the program does not require a formal application process. Interested students can simply inform their school counselor or registrar of their desire to participate, ideally starting in Grade 10. The High Skills Major in Technology is designed to be inclusive and compatible with other recognized educational programs, including O2, AP, and French Immersion, allowing a diverse range of students to explore and excel in the field of technology.

### **O2: Options and Opportunities**

O2: Options and Opportunities provides a comprehensive educational program that bridges high school to post-secondary education, work and /or youth apprenticeships for each student. The program is helps students make connections between what they are learning in school and post-secondary programs and/or work. High school students who participate in the program get experience in a career academy and increased opportunities for community-based learning such as cooperative education credits.

Students who graduate from O2 will have fulfilled all graduation requirements and earned a high school diploma. In addition, they will have also graduated with a greater understanding of their skills, knowledge and strengths, and a career plan.

O2 builds on initiatives introduced through the Youth Pathways and Transitions strategy. O2 program components include Community-Based Learning Partnerships, Skills for the Workplace, Career Academies, Integrated Career Education and Planning, Instructional Teaming, Expanded Course Options, Connecting with Families, and Head Start in the Trades.

O2 is a full high school program (10-12) and is available to students entering grade 10 who need additional help with career and educational planning. Students must apply and participate, along with their families, in an admissions process.

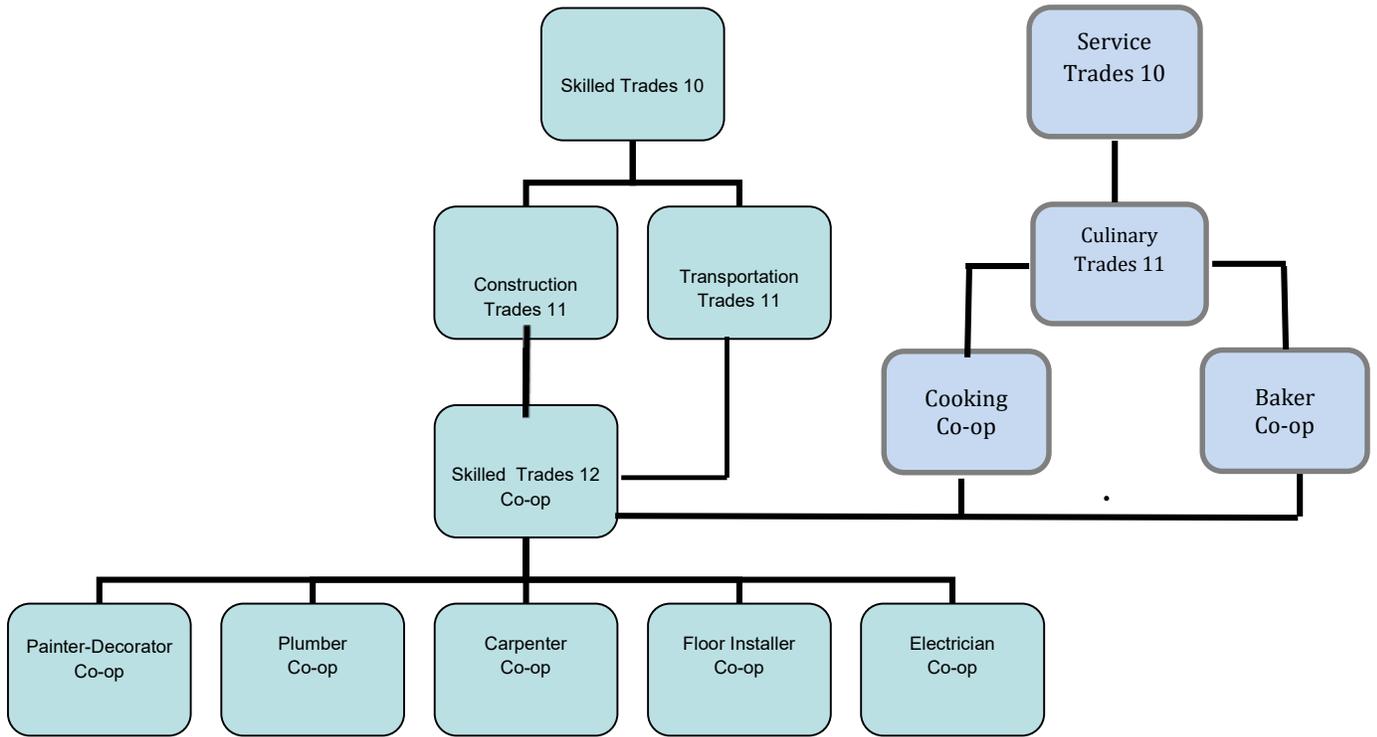
## Sample Course Path – Options and Opportunities

		Grade 10	Grade 11	Grade 12
<b>Semester 1</b>		CAREER DEVELOPMENT 10	ENGLISH 11	ENGLISH 12
		SCIENCE 10 O2	GRADE 11 SCIENCE CREDIT	GLOBAL STUDIES 12
		MATHEMATICS 10	CO-OP 11 O2	MATHEMATICS 12
		PHYSICAL EDUCATION CREDIT	CO-OP 12 O2	G.12 TECHNOLOGY CREDIT OR ELECTIVE
<b>Semester 2</b>		ENGLISH 10 O2	CANADIAN STUDIES 11	CO-OP 12
		COMMUNITY BASED LEARNING 11 O2	MATHEMATICS 11	CO-OP 12
		FINE ARTS 10 CREDIT	ELECTIVE	
		TECH ELECTIVE OR MATHEMATICS 10	ELECTIVE	

a number of positive outcomes. The skilled trades span many differing skillsets, so work choices are many. Quality of life increases as good-paying jobs result in higher earning capacity. There is the respect that comes from productive work and the professionalism that is required of skilled trades people.

Recognizing the importance of this option for our students, the Government of Nova Scotia committed in 2007 to “further expand choices for hands-on learning in the areas of vocational and composite programming. When implemented, the new programming will offer students opportunities for trade-specific learning in the areas of metals, wood, plumbing and pipefitting, and electrical work.”

Below is a possible course map of the Skilled/Service Trades suite of courses for JL Ilsley



**COURSES OFFERED 2026-2027**  
**(Courses only run if enough students request it)**

<b>SUBJECT AREA</b>	<b>GRADE 10</b>	<b>GRADE 11</b>	<b>GRADE 12</b>
<b>ENGLISH</b>	English 10 English 10 AP	English Communications 11 English 11 Adv English 11 (Pre AP)	English Communications 12 English 12 AP English 12 English 12 African Heritage
<b>MATHEMATICS</b>	Math at Work 10 Math Essentials 10 Mathematics 10 (Full Year)	Mathematics Essentials 11 Math at Work 11 Mathematics 11 Extended Mathematics 11 Pre-Calculus 11	Mathematics Essentials 12 Mathematics at Work 12 Mathematics 12 Pre-Calculus 12 AP Calculus 12
<b>SCIENCE</b>	Science 10 Science 10 AP	Biology 11 Adv Biology 11 (Pre AP) Chemistry 11 Adv Chemistry 11 (Pre AP) Human Biology 11 Oceans 11 Physics 11	AP Biology 12 Biology 12 Chemistry 12 AP Chemistry 12 Geology 12 Physics 12 Food Science 12
<b>SOCIAL STUDIES</b>	History 10	African Canadian Studies 11 <i>Contemporary Canadian Studies 11</i> Mi'Kmaq Studies 11	Global Geography 12 Global History 12 Global Politics 12 Law 12 Philosophy 12 Psychology 12 Sociology 12 (Academic)
<b>FRENCH (CORE)</b>	Core French 10	Core French 11	
<b>FRENCH (IMMERSION)</b>	Art Dramatique 10 Imm Français Immersion 10 Yoga 11 Imm Sciences 10 Imm Le cours d'études canadiennes contemporaines 11	Biologie 11 Imm Français Immersion 11	Français Immersion 12 Géographie Planétaire 12 Imm
<b>FINE ARTS</b>	Drama 10 Music 10 Music 10 Band Music 10 Vocal Visual Arts 10	Drama 11 Music 11 Band Music 11 Vocal Visual Arts 11	Music 12 Band Music 12 Vocal Visual Arts 12
<b>FAMILY STUDIES/ PERSONAL DEVELOPMENT AND CAREER ED</b>	Career Development 10 Food for Healthy Living 10 Food & Society 10	Child Studies 11 Career Development 11 Workplace Health & Safety 11 Cooperative Education 11 Life 11	Cooperative Education 12 Health & Human Services 12
<b>PHYSICAL EDUCATION</b>		Fitness Leadership 11 Physically Active Living 11 Physical Education 11 Martial Arts 11 Yoga 11	Physical Education 12
<b>BUSINESS EDUCATION</b>		Accounting 11	Business Management 12 Law 12 Investment and Finance 12 Entrepreneurship 12 Economics 12

<b>TECHNOLOGY AND SKILLED TRADES</b>	Construction Technology 10 Skilled Trades 10 Service Trade 10	Business Technology 11 Communication Tech 11 Culinary Trades 11 Construction Trades 11 Design 11 Production Technology 11	Communication 12 Film and Video 12 Multimedia 12 Production Technology 12 Co-op 12 Skill Trade Coop 12 Service Trade Coop 12
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Please note: Courses listed above are not guaranteed to be scheduled. Course offerings may be adjusted due to low enrollment requests, staffing considerations and/or changes dictated by the Halifax Regional School Board/NS Department of Education. Students going into grade 10 should take at least one grade 11 course. They can select up to three if they wish. The grade 11 courses available to grade 10s will be listed on their course selection form.

## Nova Scotia Virtual School

The Nova Scotia Virtual School is a common provincial online learning platform created as a joint project between provincial school boards and the Department of Education in Nova Scotia. It provides for the delivery of public school and correspondence courses (Distributed Learning), online extensions of school-based classes (Blended Learning), and supports professional development and online meetings for teachers and other staff of school boards and the Department of Education (Professional Learning).

Research shows that students are most successful in online learning when they are self-motivated, autonomous learners who can resist distractions and work individually towards a learning goal. The courses that are currently offered through the Nova Scotia Virtual School consist of a set of lessons, activities, and projects. It is expected that students will be online every day completing work and meeting with their teacher and fellow students.

Students must sign into their courses each day to complete lessons and assignments. Once a week, students will meet with their teacher and fellow students in an online video conference. Currently, you must be enrolled in a public high school in Nova Scotia to enrol in these to these online courses.

Please note that students should take a maximum of one (1) online course each semester. Full information will also be posted on the Nova Scotia Virtual School website at <http://nsvs.ednet.ns.ca>

## ARTS EDUCATION

Education in the arts assists us in perceiving, analyzing and interpreting ourselves, our community, our environment and our cultural heritage. The study of the arts provides the opportunity to see the world through the eyes of others. It adds a new dimension to the students' abilities to see the world, perceive problems and take action towards their solution. Art (the arts) mirrors and influences the human condition reflecting our origins, our history and our aspirations.

Education in the arts should be an essential part of the development of every child. Participation in art, drama and music provides a unique mode of experience that stimulates creative and intuitive thought while developing the intellect. Arts education assists in perceiving and responding to the environment through the senses. It also helps in achieving self-discipline, experiencing success, and realizing personal potential. Learning through the arts provides a fuller understanding and enjoyment of life. It also provides opportunities for students to explore careers in the fine arts.

### Grade Ten Courses

#### **VISUAL ARTS 10**

(ACADEMIC credit) . (Provincial Course Code: 001077)

This first year of high school art is a foundation program intended to introduce students to the central components of fine art. Emphasis will be placed upon skill development, material and tool manipulation, art theory and informal art history. Students will explore units in drawing, colour theory, painting and 3-D sculpture

#### **DRAMA 10**

(ACADEMIC credit) (Provincial Course Code: 004159)

Drama 10 is an introductory course in drama focusing on the personal, intellectual, and social growth of the student. Drama 10 provides a foundation for future course work in drama and theatre. Through extensive work in improvisation, in both small and large groups, students gain confidence as they explore and communicate ideas, experiences, and feelings in a range of dramatic forms, such as dramatic movement and mime, dramatization, choral speech, choric drama, group drama and Readers Theatre.

Drama 10 comprises four components: foundation, movement, speech, and theatre. The foundation component, which focuses on building student confidence and trust and creating a supportive learning environment, introduces students to the essential elements of movement and speech. Experiences in movement and speech are extended in the movement and speech components and combined in the exploration of the various dramatic forms.

#### **ART DRAMATIQUE 10**

(ACADEMIC French Immersion credit) (Provincial Course Code: 007099)

See DRAMA 10 for course description

#### **MUSIC 10**

(ACADEMIC credit) (Provincial Course Code: 009004)

This course is offered to students who have some previous music experience, and who have access to an instrument at home. Beginner students are accepted provided they are willing to learn basic skills on guitar

or keyboard. Other instruments may be an option at the discretion of the teacher. This course covers music history, music theory (reading and writing music), ear training, and practical playing skills. The class requires participation in class (playing and practicing), written assignments, and tests. Students who are interested in this course should see their guidance counsellor for an information package.

### **MUSIC 10 (BAND)**

(ACADEMIC credit) (Provincial Course Code: 009004)

Offered to students who have participated in band at the Junior High level. Students who play "non-traditional" band instruments are also welcome (guitar, piano, strings) provided they have some previous experience or private study. Guitar players must be at an intermediate level and pianists at least Grade 5 Royal Conservatory or equivalent. Students with no previous formal training (self-taught) may be admitted after meeting with the music teacher.

Band involves extensive playing, music theory assignments and tests, class participation and some public performances. This class usually meets at a lunch time slot.

## **Grade Eleven Courses**

### **VISUAL ARTS 11**

(ACADEMIC credit) (Provincial Course Code: 001077)

This course concentrates on refining skills and further developing an understanding of the central components of drawing, painting, sculpture and design, and informal art history. Students will begin to develop creative problem solving skills and will work more independently.

### **DRAMA 11**

(ACADEMIC credit) (Provincial Course Code: 004167)

Drama 11 builds on learning experiences provided in Drama 10 and focuses on the students' personal development. Beginning with foundation experiences to develop student confidence and capability, the course allow students to explore movement and speech and to combine these in a greater range of dramatic forms. Selected dramatic forms are explored in depth for presentation

Drama 11 emphasizes the process of creating script and bringing script to production. The course also explores the elements of theatre production and the skills required for presentation or performance.

### **MUSIC 11 (BAND)**

(ACADEMIC credit) (Provincial Course Code: 009005)

Offered to students who have participated in band in Grade 10. Students who play "non-traditional" band instruments are also welcome (guitar, piano, strings) provided they have some previous experience or private study. Guitar players must be at an intermediate level and pianists at least Grade 5 Royal Conservatory or equivalent. Students with no previous formal training (self-taught) may be admitted after meeting with the music teacher. Band involves extensive playing, music theory assignments and tests, class participation and some public performances. This class usually meets at a lunch time slot.

### **MUSIC 11 (VOCAL)**

(ACADEMIC credit) (Provincial Course Code: 009005)

Open to all grade 11 students interested in developing their understanding of singing. No previous experience is required. The vocal classes take place outside of the regular daily schedule and include a vocal class and two choir rehearsals per week. Students will be exposed to proper vocal technique, ear training, music theory and sight reading. Some public performances will be required as part of the choir.

## **Grade Twelve Courses**

### **VISUAL ARTS 12**

(ACADEMIC credit) (Provincial Course Code: 001079)

This course concentrates on specialization, individual problem-solving, working in depth in selected areas of the central program. Continued emphasis is placed on the central components begun in the foundation and second year. Students at this level will be working independently, exploring personal reflection and a variety of media choices.

### **MUSIC 12 (BAND)**

(ACADEMIC credit) (Provincial Course Code: 009006)

Offered to students who have participated in band in Grade 11. Students who play "non-traditional" band instruments are also welcome (guitar, piano, strings) provided they have some previous experience or private study. Guitar players must be at an intermediate level and pianists at least Grade 5 Royal Conservatory or equivalent. Students with no previous formal training (self-taught) can be admitted after meeting with the music teacher. Band involves extensive playing, music theory assignments and tests, class participation and some public performances. This class usually meets at a lunch time slot.

### **MUSIC 12 (VOCAL)**

(ACADEMIC credit) (Provincial Course Code: 009006)

Open to all grade 12 students interested in developing their understanding of singing. No previous experience is required. The vocal classes take place outside of the regular daily schedule and include a vocal class and two choir rehearsals per week. Students will be exposed to proper vocal technique, ear training, music theory and sight reading. Some public performances will be required as part of the choir.

## **BUSINESS EDUCATION**

Business Education is a related and integral part of the total program of education in our high school. Business Education not only provides effective occupational instruction for high school students desiring careers in business, but also makes an important contribution to the comprehensive education of all high school students. Business Education courses may be taken by any student as part of the high school completion program.

### **Grade Eleven Courses**

#### **ACCOUNTING 11**

(ACADEMIC credit) (Provincial Course Code: 002357)

The aims of the high school accounting courses are:

1. to develop an understanding of accounting principles and concepts encountered in business and personal activities;
2. to provide a sound foundation for additional study beyond the high school level;
3. to become familiar with the applications, principles and importance of data processing in accounting procedures.

The following topics are covered in the introductory course: accounting for starting a business; analysis of business transactions and how they affect the business records; the use of accounting records such as journals, ledgers, and source documents; processing and control of cash receipts and payments; preparation of reports to management; procedures required in merchandising businesses; payrolls; year-end accounting activities and many other items which keep the student interested and involved.

### **Grade Twelve Courses**

#### **BUSINESS MANAGEMENT 12**

(ACADEMIC credit) (Provincial Course Code: 002345)

This course introduces students to business management concepts through the use of technology. Unit 1 provides an overview of the current business environment and introduces students to business terminology and concepts. Unit 2 provides an in-depth analysis of management roles and responsibilities. Students will relate their own personal attributes, skills, and knowledge to management functions (leadership, planning, decision-making, organizing and controlling) as well as to different management styles. Unit 3 presents challenges facing 21st century managers such as ethics, knowledge management, organizational change, and adapting to the rapid pace of technological innovation. Unit 4 is an independent project in which students select a specific industry and design their own company with a focus on management.

## **Economics 12**

(academic, 1 credit) Provincial Course Code: 012024)

This course provides a systematic and in-depth study of economic issues and theories. By providing a balanced and wide range of perspectives, students will be encouraged to evaluate and debate real-world economic issues for themselves. Analytical and critical thinking skills will be emphasized throughout the course. Major units will include microeconomics theory and macroeconomics theory. Optional units will be chosen from topics such as the history of economic ideas, international trade, and interpreting economic data.

## **Entrepreneurship 12**

(ACADEMIC credit)(Provincial Code:002098 )

This course will provide students with a number of skills which will help them set-up and run a small business. The focus of Entrepreneurship 12 is 'learning by doing' and therefore, students of Entrepreneurship 12 will engage in a number of hands-on activities that will help them prepare for a business career.

As part of the Entrepreneurship 12 program students are required to participate in a number of activities outside of the classroom.

## **LAW 12**

(ACADEMIC credit) (Provincial Course Code: 012028)

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

## **INVESTMENT AND FINANCE 12**

(ACADEMIC credit) (Provincial Course Code: 012357)

Investment and Finance 12 will give students the opportunity to become a financially literate citizen who will learn to understand and deal with money as a life skill. Students in this course will set financial goals and understand how to make wise decisions when spending, saving and investing. Students will expand their understanding through assigned readings, independent research, assignments, and individual or group projects. Students will develop financial skills which they can apply during their lifetime and learn to make informed financial decisions that can influence their financial future. Modules include the following: Lifestyle and Earnings, Saving, Spending, and Investing. Upon completion of this course, students will be able to comprehend and evaluate a very broad range of investment options which are available in the market place.

# ENGLISH LANGUAGE ARTS

## Grade Ten Courses

### ENGLISH 10

(ACADEMIC credit) . (Provincial Course Code: 004084)

English 10 emphasizes proficiency in using oral language for a variety of purposes. Learning experiences include the following:

- Exploratory and informal talk: conversation, focused discussion with an identifiable purpose, such as brainstorming, speculating, and problem solving.
- Structured activities, including symposia, panels, and interviews.  
Dramatic representations: monologues, role playing, and improvisation.
- Performance of texts: individual and choral performance and Readers Theatre.
- Formal presentations: seminars, debates, public speaking, and reports.
- Focused listening activities to interpret and evaluate ideas and information from a range of sources

Basic skills in writing and interpreting literature are important aspects of this entrance level in English.

Students will begin to apply their writing skills to producing formal and informal essays.

Options are available for students wishing additional support or enrichment. All grade 10 students will write the Provincial English Exam.

## Grade Eleven Courses

### ENGLISH COMMUNICATIONS 11

(GRADUATION credit) (Provincial Course Code: 004163)

English/Communications courses are intended for students who may need additional support in their development as readers, writers, and language users. This course focuses on developing language skills necessary for the workplace. Learners must also have opportunities to read widely in their interest areas and to create both written and visual texts to enhance their reading and writing fluency. The use and the influence of media such as television, radio, and film are also examined in this course.

### ENGLISH 11

(ACADEMIC credit) (Provincial Course Code: 004162)

English 11 is intended for students whose goals include post-secondary study. 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 adult judgements.
- 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.
- Demonstrate control of language processes.

### **ADVANCED ENGLISH 11 (Pre AP)**

(ADVANCED credit) (Provincial Course Code: 004251)

This is a very demanding course which puts emphasis on historical literature and on the development of language itself. Selected texts transcend various cultures and time periods. The usual focus on writing and speaking is continued here, with increased emphasis on the development of the argument. Students will also have opportunities to write imaginatively.

## **Grade Twelve Courses**

### **ENGLISH COMMUNICATIONS 12**

(GRADUATION credit) (Provincial Course Code: 004164)

This course is a high school completion course for students who are looking towards career and educational options other than university. All students will work toward the same outcomes in their Grade 12 year but English 12 and English Communications 12 will differ in terms of pace, scope, emphases and resources. The emphases are on accurate and effective communication and the reading, viewing and studying of a wide variety of texts.

### **ENGLISH 12**

(ACADEMIC credit) (Provincial Course Code: 004165)

English 12 is intended for students whose goals include post-secondary study. 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 adult judgements.
- 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.
- Demonstrate control of language processes.

### **ADVANCED PLACEMENT ENGLISH 12**

(ADVANCED credit) (Provincial Course Code: 004256)

AP English is a rigorous course that is designed to take students beyond the English 12 outcomes to prepare students to meet the requirements for university credit. AP English will meet the needs of students who are interested in the study of language and literature through close readings of a variety of texts that span the globe and major literary eras. The expectation is that students have a desire to read widely and consistently throughout the year in preparation for the AP Exam in May.

## **ENGLISH 12 AFRICAN HERITAGE**

(ACADEMIC credit) (Provincial Course Code: 004258)

English 12 African Heritage examines texts with a focus on African Heritage, including short fiction, novels, poetry, spoken word and various elements of African oral traditions. The course views literature through a historical lens, spanning from prehistoric Africa throughout slavery, into reconstruction and renaissance, and then to the civil rights era. This course fulfills the grade 12 English language arts requirement for graduation.

## **FAMILY STUDIES, PERSONAL DEVELOPMENT AND CAREER EXPLORATION**

Family Studies prepares the student for life as well as providing a grounding for many courses in post-secondary institutions, including careers involved in health services professions.

### **Grade Ten Courses**

#### **CAREER DEVELOPMENT 10**

(OPEN credit)

Career Development 10 is designed to help students to understand and manage themselves, to manage their personal lives and resources (including financial resources), and to develop the ability to organize and shape their careers.

Students in Career Development 10 develop their abilities to communicate, think, and deal with their feelings. They explore realistic personal goals, assess their own abilities, and realize how these actions affect their learning and decision-making processes. They develop awareness of their place in the community and the value to their personal growth of giving service to the community.

Career Development 10 consists of the following modules:

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

#### **FOOD FOR HEALTHY LIVING 10**

(OPEN half credit) (Provincial Course Code: 005124)

Food for Healthy Living 10 (Open) is a half-credit course that is combined with International Foods 10. Energy, growth, and health are affected by healthy food choices. Students plan and prepare meals that complement healthy life choices. The course explores how life choices and food availability affect diet, and students will learn to identify nutrition issues that require dietary modifications. The impact of food marketing and advertising on people's food choices is addressed.

## **FOOD IN SOCIETY 10**

(OPEN half credit) (Provincial Course Code: 005142)

Food in Society 10 (Open) is a half-credit course that is combined with Food for Healthy Living 10. Students “travel” on a virtual global foods tour exploring diverse historical, geographical, cultural and nutritional components of international cuisine. The course includes discussions with community guest speakers, demonstrations, and food tasting experiences. Students examine global food issues affecting individuals, families and communities locally and around the world.

## **Life 11**

(OPEN)

In this course, learners engage in experiences that help them build critical life, career and health skills that will guide them in their emerging relationship with self, family, community, and environment. This course is designed to provide learners with opportunities to reflect on healthy ways to navigate change and transitions in their personal and work lives presently and in the future. An important component of this course, the service module, allows learners to engage in advocacy work on issues of interest which will positively impact their community.

## **SERVICE TRADES 10**

(Academic Credit) (Provincial Course Code:844215)

Service Trades 10 engages and exposes students to the service trades, where services are provided as opposed to goods being produced. Students explore the impact the trades have on society and investigate career paths for service trades people. In addition to developing basic food preparation skills, students also learn additional skills needed to be successful in the service sector.

Service Trades 10 counts as a technology credit and it has limited enrollment of 16 students.

## **SKILLED TRADES 10**

(Academic Credit) (Provincial Course Code: 736001)

Skilled Trades 10 models the realities of working in skilled trades professions. The traditional classroom is replaced by a Skilled Trades Centre where students get an opportunity to experience the daily challenges of apprentices. The course provides a unique mixture of classroom and simulated workplace activities. Working with hand tools used by professional trades people, students complete real construction tasks and building projects. The course is divided into 4 main areas: Safety, Skilled Trades Living, Measurement and Calculation, and Tools and Materials.

Skilled Trades 10 counts as a technology credit and it has limited enrollment of 16 students.

## **Grade Eleven Courses**

### **CHILD STUDIES 11**

(OPEN credit) (Provincial Course Code: 00005005)

Child Studies is a full credit course designed to explore the meaning and implications of responsible parenthood, to acquire current information regarding reproduction, pregnancy and childbirth, to explore

significant issues of early childhood, and to apply the understanding of child development to the care and guidance of children. The course is developed around five modules:

- Decisions about Parenthood.
- The Beginning of Parenthood
- Early Childhood Development
- Special Concerns in Child Development
- Practical Experiences with Children

### **CULINARY TRADES 11 (CULTR11) - (academic)**

Prerequisite – Successful completion of Service Trades 10

Culinary Trades 11 continues to focus on the skills developed in Service Trades 10, in a commercial kitchen setting. Students will develop cooking, baking, food preparation and service skills needed to launch a career in the food service industry. Emphasis will be placed on career paths, communication, safety, and professional food preparation and service practices. Culinary Trades 11 may be used to meet one of the compulsory technology credit requirements.

### **CONSTRUCTION TRADES 11**

(ACADEMIC Credit) (Provincial Course Code:736002)

Prerequisite – Successful completion of Skill Trades 10

Construction Trades 11 is a continuation of Skilled Trades 10. Students will continue to focus on skills developed in Skilled Trades 10 and will define them in a construction environment. Trades that will be examined comprise: carpenters, plumbers, electricians, painters-decorators, floor installers.

Working in groups, students will develop skills necessary to work on a construction site. Based around a capstone project, each student will actively use the skills specific to each of the trades required to complete the project. Each student will frame, wire, plumb and finish a section of the project.

Emphasis will be placed on communications, job-site safety, and professional trade practices.

## **Grade Twelve Courses**

### **Health and Human Services 12**

(Academic credit) (Provincial Course Code: 149121)

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

## Leadership 12

(Academic Course) (Provincial Course Code: 149167)

Leadership 12 will provide the self-motivated and energetic student opportunities to participate and make a difference in the school and community. The purpose of the course is three-fold: to generate personal growth and leadership development for students; to positively influence the culture of the school, increase school spirit; and to engage in mentorship connections within the community. Students will be expected to partner with both younger and older students in mentor and mentee positions in their role as a Student Leader. Students will develop leadership skills and build positive, realistic attitudes toward both self and society. Topics include the following: public speaking, communication, goal setting, team building, problem solving, risk taking, project planning, leadership development, service to others, and organizational techniques.

PLEASE NOTE: Leadership 12 students must be prepared to participate in events and activities that can extend the hours of the regular school day. The following will be required in order to successfully meet the outcomes of the course: 15 hours of community service, and 10 hours for school events organized by the class (Social and Academic Follow-Ups). To achieve these ends, students will be engaged in individual / self-directed work as well as group and community work. If demand is high, an application submission may be required to enroll in this course.

## COOPERATIVE EDUCATION

(ACADEMIC Credit) (Provincial Course Codes: CO-OP 11: 149058 CO-OP 12 (Provincial Course Code: 149061)

Cooperative Education involves methods of learning that links school and the workplace through an active relationship between students, teachers, parents and community. Co-operative Education provides the opportunity for a student to earn a high school credit when taken in conjunction with his/her other courses. The program integrates in-school courses with a 100 hour out of school placement and a 25 hour in-school component. The program enriches, enhances and reinforces knowledge and skills as the student integrates school subjects and workplace learning. To complete a community placement, students must be of 16 years of age. **You do not need to be in 02 or Skilled Trades to take Coop.**

Co-operative Education consists of 3 components:

- In-school component
- Community placement
- Reflective learning

The in-school component is structured to prepare students for the community placement. . The *community placement* component for each student must be carefully designed through co-operation between the school staff and the work place host. The community placement must be monitored on a regular basis and carefully evaluated, making use of the student's learning assessment and evaluation plan. The learning plan must clearly indicate the goals and objectives of the community placement.

## FRENCH SECOND LANGUAGE

### CORE FRENCH

#### **CORE FRENCH 10, CORE FRENCH 11, AND CORE FRENCH 12**

(ACADEMIC 1 credit each) (Provincial Course Code: 007097, 007098, and 007099)

The senior high French program is designed to develop comprehension, communication, and interaction skills and strategies through experiential teaching materials that incorporate a variety of authentic documents. Topics, tasks, and final projects are aligned with students' experiences and interests. Areas to study include the future, career plans, the media, the arts, social and technological trends, as well as Francophone cultures and multiculturalism.

### FRENCH IMMERSION LANGUAGE ARTS

#### **FRANCAIS IMMERSION 10**

(ACADEMIC credit) (Provincial Course Code: 007106)

This immersion course emphasizes using French for a variety of purposes. Students are engaged in listening and speaking situations and in responding to a variety of texts. Literature includes articles, poems, mythology, short stories and novels. Writing activities include composing documents to present information and to express feelings. The course also explores other forms of viewing and representing.

#### **FRANCAIS IMMERSION 11**

(ACADEMIC credit) (Provincial Course Code: 007107)

In the grade 11 French immersion course, students continue to listen and respond to a variety of texts and to communicate orally information on various topics. Students are involved in such activities as drama and improvisation. Reading and literature include articles, biographies, poems, short stories and novels. Writing activities include letters, tales, short stories, reports and research papers. The course also explores other forms of viewing and representing.

#### **FRANCAIS IMMERSION 12**

(ACADEMIC credit) (Provincial Course Code: 007108)

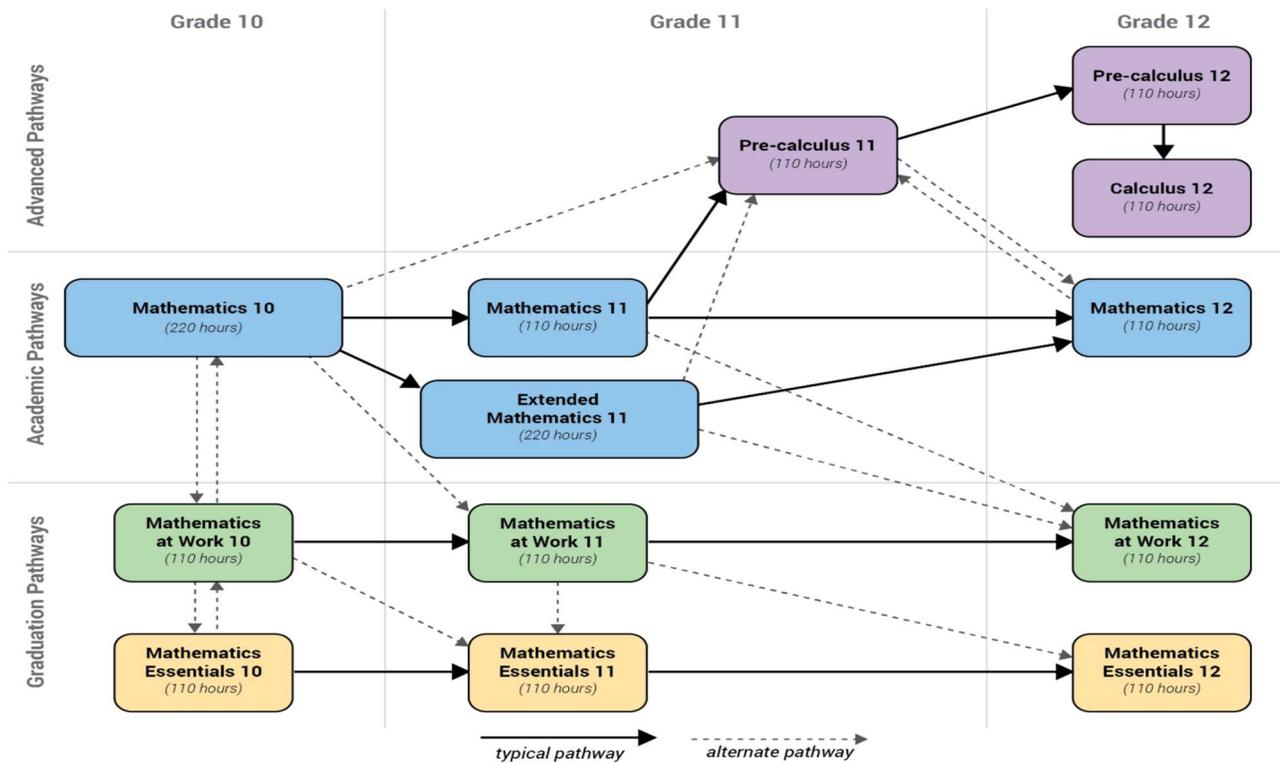
In grade 12 French immersion students continue to develop their listening and oral skills in French while engaged in a wide range of activities. Reading and literature include many forms and genres, such as articles, position papers, poetry, legends, short stories, novels and drama. Students write informative reports, research papers and briefs. The course also explores other forms of viewing and representing.

# MATHEMATICS

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

- Mathematics Essentials (graduation credits)
- Mathematics at Work (graduation credits)
- Mathematics (academic credits)
- Pre-Calculus (advanced credits)

## Senior High Mathematics Course Pathways (Effective 2021)



There are four main pathways for mathematics in Nova Scotia:

**Academic pathway (academic credit type):** Courses in this pathway prepare students to enter post-secondary academic programs that do not require pre-calculus for admission. *Courses: Mathematics 10, Mathematics 11 (or Extended Mathematics 11) and Mathematics 12*

**Pre-calculus pathway (advanced credit type):** Courses in this pathway prepare students to enter post-secondary academic programs that require pre-calculus for admission. This pathway branches off of the academic pathway.

*Courses: Pre-calculus 11 and Pre-calculus 12, Calculus 12*

**Mathematics at Work pathway (graduation credit type):** Courses in this pathway prepare students to enter post-secondary programs that do not require academic mathematics (options at both community college and university) or who plan to enter the workforce directly after high school. *Courses: Mathematics at Work 10, Mathematics at Work 11, and Mathematics at Work 12*

**Mathematics Essentials pathway (graduation credit type):** Courses in this pathway prepare students to enter some community college programs or directly into the workforce after graduation.

*Courses: Mathematics Essentials 10, Mathematics Essentials 11, and Mathematics Essentials 12*

## Grade Ten Courses

### **Mathematics 10 (academic credit type, 2 credits, 220-hour course)**

#### **(Provincial Code: 008077)**

Mathematics 10 is an academic credit type high school mathematics course. Upon successful completion students will receive 2 academic credits; one in Mathematics 10 and another in math, science or technology.

It is recommended that students proceed to Mathematics 11 or Mathematics Extended 11 upon completion of Mathematics 10. In some cases students may choose a course other than Mathematics 11 or Extended Mathematics 11. Students should make this decision following discussions with their family and school staff.

*Students in Mathematics 10 will explore the following topics:*

measurement systems, surface area and volume, right triangle trigonometry, exponents and radicals, polynomials, linear relations and functions, linear equations and graphs, solving systems of equations, and financial mathematics.

### **Mathematics at Work 10 (graduation credit type, 1 credit, 110-hour course)**

#### **(Provincial Code:008018)**

Mathematics at Work 10 is a graduation credit type high school mathematics course.

It is recommended that students proceed to Mathematics at Work 11 upon completion of Mathematics at Work 10. In some cases students may choose a course other than

Mathematics at Work 11. Students should make this decision following discussions with their family and school staff.

*Students in Mathematics at Work 10 will explore the following topics:* measurement systems, surface area, Pythagorean theorem, right triangle trigonometry, similar polygons, angles, perpendicular and parallel lines, unit pricing, currency exchange, income, and basic algebra.

### **Mathematics Essentials 10 (graduation credit type, 1 credit, 110-hour course.) (Provincial Code: 008189)**

Mathematics Essentials 10 is an introductory, graduation credit type high school mathematics course designed for students who do not intend to pursue post-secondary studies that require study in mathematics.

It is recommended that students proceed to Mathematics Essentials 11 upon completion of Mathematics Essentials 10. In some cases students may choose a course other than Mathematics Essentials 11. Students should make this decision following discussions with their family and school staff.

*Students in Mathematics Essentials 10 will explore the following topics:* Mental math, working and earning, deductions and expenses, paying taxes, making purchases, buying decisions, probability, measuring and estimating, transformation and design, and buying a car.

## **Grade Eleven Courses**

### **Grade 11 Mathematics Course Descriptions**

The following mathematics courses are available at the grade 11 level:

- Mathematics 11: 110 hours, 1 academic credit
- Extended Mathematics 11: 220 hours, 2 academic credits
- Pre-calculus 11: 110 hours, 1 advanced credit
- Mathematics at Work 11: 110 hours, 1 graduation credit
- Mathematics Essentials 11: 110 hours, 1 graduation credit

### **Mathematics 11 (academic, 1 credit, 110-hour course) (Provincial Code: 008067)**

Mathematics 11 is an academic credit type high school mathematics course.

It is recommended that students have successfully completed Mathematics 10 prior to enrolling in this course.

Upon completion of Mathematics 11 it is *recommended* that students proceed to Mathematics 12 or Pre-calculus 11. In some cases students may choose a course other than

Mathematics 12 or Pre-calculus 11. Students should make this decision following discussions with their family and school staff.

*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.

**Extended Mathematics 11 (academic, 2 credits, 220-hour course.)  
(Provincial Code: 008053)**

It is an academic credit type high school mathematics course. Extended Mathematics 11 is designed to allow students to complete the Mathematics 11 course over a full year. Upon successful completion students will receive 2 academic credits; one grade 11 academic mathematics credit and one grade 11 technology credit. It is recommended that students have successfully completed Mathematics 10 prior to enrolling in this course.

Upon completion of Extended Mathematics 11 it is *recommended* that students proceed to Mathematics 12. In some cases students may choose a course other than Mathematics 12. Students should make this decision following discussions with their family and school staff. Students who select Mathematics 12 should have a solid understanding of the Mathematics 11 curriculum.

*Students in Extended 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. Students will also analyze, interpret and draw conclusions from one and two variable data using numerical, graphical and algebraic summaries, and identify patterns, extract useful information and meaning from professionally collected data sets.

**Pre-calculus 11 (advanced, 1 credit, 110-hour course) (Provincial Code: 008829)**

Pre-calculus 11 is an advanced credit type high school mathematics course.

It is recommended that students have successfully completed Mathematics 11 prior to enrolling in this course.

Upon completion of Pre-calculus 11 it is *recommended* that students proceed to Mathematics 12 or Pre-calculus 12. In some cases students may choose a course other than Mathematics 12 or Pre-calculus 12. Students should make this decision following discussions with their family and school staff.

*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 at Work 11 (graduation credit type, 1 credit)  
(Provincial Code:0082837)**

Mathematics at Work 11 is a graduation credit type high school mathematics course. It is recommended that students have successfully completed Mathematics at Work 10 prior to enrolling in this course.

Upon completion of Mathematics at Work 11 it is *recommended* that students proceed to Mathematics at Work 12. In some cases students may choose a course other than Mathematics at Work 12. Students should make this decision following discussions with their family and school staff.

*Students in Mathematics at Work 11 will explore the following topics:*

measurement systems, surface area, volume, 2-D and 3-D geometry, scale, exploded diagrams, numerical reasoning, personal budgets, compound interest, financial institution services, data management, and formula manipulation for various contexts.

**Mathematics Essentials 11 (graduation credit type, 1 credit, 110-hour course)  
(Provincial Code: 008091)**

Mathematics Essentials 11 is a graduation credit type high school mathematics course designed for students who do not intend to pursue post-secondary studies that require study in mathematics . It is recommended that students have successfully completed Mathematics Essentials 10 prior to enrolling in this course.

Upon completion of Mathematics Essentials 11 It is *recommended* that students proceed to Mathematics Essentials 12 . In some cases students may choose a course other than Mathematics Essentials 12. Students should make this decision following discussions with their family and school staff.

*Students in Mathematics Essentials 11 will explore the following topics:* mental mathematics, data management, borrowing money, renting or buying, household budgets, investing money, measurement, 2-D and 3-D design, mathematics in content areas such as science and social studies.

## **Grade 12 Mathematics Course Descriptions**

The following mathematics courses are available at the grade 12 level:

- Mathematics 12: 110 hours, 1 academic credit
- Pre-calculus 12: 110 hours, 1 advanced credit
- Calculus 12: 110 hours, 1 advanced credit
- Mathematics at Work 12: 110 hours, 1 graduation credit
- Mathematics Essentials 12: 110 hours, 1 graduation credit

**Mathematics 12 (academic credit type, 1 credit, 110-hour course)**  
**(Provincial Code: 008073)**

Mathematics 12 is an academic credit type high school mathematics course.

It is recommended that students have successfully completed Mathematics 11 or Extended Mathematics 11 prior to enrolling in this course.

*Students in Mathematics 12 will explore the following topics:*

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

**Pre-calculus 12 (advanced credit type, 1 credit, 110-hour course)**  
**(Provincial Code: 008156)**

Pre-calculus 12 is an advanced credit type high school mathematics course.

It is recommended that students have successfully completed Pre-calculus 11 prior to enrolling in this course.

Upon completion of Pre-calculus 12 students may choose to enroll in Calculus 12.

*Students in Pre-calculus 12 will explore the following topics:* transformations, radical functions, polynomial functions, trigonometry, exponential functions, logarithmic functions, rational functions, function operations, permutations, combinations, and the binomial theorem.

**Advance Placement Calculus 12 (advanced, 1 credit, 110-hour course)**  
**(Provincial Code: 008190)**

AP Calculus 12 is an advanced credit type high school mathematics course.

It is recommended that students have successfully completed Pre-calculus 12 prior to enrolling in this course. This course is designed for those students who wish to build a foundation in the study of calculus prior to taking a course at the university level.

*Students in AP Calculus 12 will explore 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.

**Mathematics at Work 12 (graduation credit type, 1 credit, 110-hour course)**  
**(Provincial Code: 008237)**

Mathematics at Work 12 is a graduation credit type level high school mathematics course.

It is recommended that students have successfully completed Mathematics at Work 11 prior to enrolling in this course.

*Students in Mathematics at Work 12 will explore the following topics:*

measurement, probability, measures of central tendency, scatterplots, linear relationships, owning and operating a vehicle, properties of polygons, transformations, trigonometry.

**Mathematics Essentials 12 (graduation credit type, 1 credit, 110-hour course)  
(Provincial Code: 008231)**

Mathematics Essentials 12 is a graduation credit type level high school mathematics course designed for students who do not intend to pursue post-secondary studies that require study in mathematics. It is recommended that students have successfully completed Mathematics Essentials 11 prior to enrolling in this course.

*Students in Mathematics Essentials 12 will explore the following topics:* measurement, ratio, rate, proportion, mathematics and career exploration, mathematics preparation for the workplace.

## PHYSICAL EDUCATION

The general goals of the program are to have participating students:

- develop an understanding of the importance of personal physical fitness
- develop an enjoyment and appreciation of lifelong involvement in physical activity
- increase skill levels, knowledge and leadership in a variety of physical activities
- provide opportunities for social growth and interaction through participation in a variety of activity related settings

### **Martial Arts 11**

(OPEN credit) (Provincial Course Code:101087 )

The Martial Arts 11 curriculum introduces students to the fascinating world of martial arts training and self-defence. Students will explore striking and grappling techniques through individual movement training, group games and partner exercises in the spirit of mutual welfare and benefit for all. Students will develop new self-defence skills and physical abilities, which help improve self-confidence and reduce social anxiety. The foundation of the curriculum is based on the Japanese art of judo, meaning the “gentle way”. This refers to the fundamental principle of judo - to redirect your opponent's force. Students will also practice kickboxing, Brazilian jiu jitsu and they are encouraged to research and experiment with any martial arts that interest them.

### **PHYSICALLY ACTIVE LIVING 11**

(OPEN credit) (Provincial Course Code:101081 )

This full-credit course is designed to engage students in a wide range of physically active experiences, with an overall theme of exploring options and opportunities for being active for life, both in school and in their community. Physically Active Living 11 encompasses both an activity component and a theory component, with an emphasis on engagement in physical activity.

The activity component of the course is designed to provide opportunities for students in active experiences that engage youth in traditional and non-traditional forms of physical activity as well as fitness.

The theory component of the course will enhance student understanding of healthy eating, goal setting, mental and emotional health and addiction prevention highlighting the connection between healthy living and being physically active.

### **PHYSICAL EDUCATION 11**

(OPEN credit) (Provincial Course Code: 101030)

This physical education course places greater emphasis on lifetime recreation activities, with a balance between indoor and outdoor activities. Physical fitness and the development of leadership skills continue as priorities.

### **YOGA 11**

(ACADEMIC credit) (Provincial Course Code: 101089)

Yoga 11 will introduce students to the tradition of Yoga with its various forms and styles. The intention is that students will develop a lifelong personal practice of yoga to maintain vibrant health and develop healthy relationships with self and others while enjoying it as a regular form of physical and leisure activity. Students will be participating in various activities that will include physical practice, personal reflection, meditation, group discussion, and classroom theory.

The physical aspect of yoga will include the acquisition and development of skills including strength, flexibility, cardiovascular endurance, balance, regulation of energy through breathing, and mental focus. All of these skills are of great benefit to overall health and to other physical pursuits.

The course is divided into three modules: Proper Breathing and Asana Practice; The Origins and Philosophy of Yoga and Integrating a Mindful Practice.

\*\*\*\*\*Yoga 11 Immersion will be available as a required French Immersion Course.

### **PHYSICAL EDUCATION 12**

(OPEN credit) (Provincial Course Code: 101032)

Physical Education 12 is designed for students who want to remain physically active in their final year of high school. A variety of sports, fitness, co-operative games and recreational activities will make up this course. This program develops maturity through an active lifestyle program so the students can remain active once they leave the school setting. This course meets the physical active requirement for NS Graduation.

# SCIENCE

## Grade Ten Courses

### SCIENCE 10

(ACADEMIC credit) (Provincial Course Code: 10 (Provincial Course Code: 011249)

The Science 10 course is designed to introduce students to the relationships among science, technology and society. The course will allow students to develop an understanding of the many ways that science touches their lives and shapes their world. Science 10 will present students with the tools necessary to become scientifically and technologically literate, and will provide a foundation for further study in various science disciplines. The four modules of study are Sustainability of Ecosystems, Chemical Reactions, Weather Dynamics, and Motion.

All students entering Grade 10 should register for Science 10. Options are available for students wishing support or enrichment.

### SCIENCES 10 IMM

(ACADEMIC French Immersion credit) (Provincial Course Code: 011142)

See SCIENCE 10 for course description

## Grade Eleven Courses

### BIOLOGY 11

(ACADEMIC credit) (Provincial Course Code: 011153)

The Biology 11 course emphasizes biodiversity, matter and energy for life, and maintaining equilibrium in living systems. Activity/laboratory work forms an integral part of the course and is generally used to reinforce ideas, followed by classroom discussion to further develop concepts. Topics include: biological classification, cell biology, microscopy, and systems of living organisms including respiration, digestion, and circulation.

### ADVANCED BIOLOGY 11 (Pre AP)

(ADVANCED credit) (Provincial Course Code: 011155)

Advanced Biology 11 is an excellent introductory course for those students with an above average interest and ability in science and are considering a career in life sciences. This course is essentially the same as Biology 11 but has a stronger focus on research, project work and independent study. Classroom work is complimented with activities and laboratory explorations. Topics include: Matter and energy for life, Biodiversity, Interactions among Living Things, and maintaining dynamic equilibrium through the study of the systems of living organisms including respiration, digestion, excretion and circulation. This course is recommended for students planning to take AP Biology 12.

### BIOLOGIE 11 IMM

(ACADEMIC FRENCH IMMERSION credit) (Provincial Course Code: 011145))

See BIOLOGY 11 for course description

## **HUMAN BIOLOGY 11**

(GRADUATION credit) (Provincial Course Code: 011204)

This course will give students a basic understanding of the biology of the human body. As well as looking at the major human body systems, students will examine the impact that the life choices we make as well as the environment has on the health of these systems. Emphasis is placed on labs and hands on activities which are then supported by class discussions to help students feel confident in their understanding of the subject. A number of course assignments will focus student awareness on the needs of their local community. Topics to be covered include: the skin, diet and nutrition, the digestive system, cardiovascular health, muscles and bones, and the nervous system.

*Recommended Prerequisite: Science 10*

## **CHEMISTRY 11**

(ACADEMIC credit) (Provincial Course Code: 011149)

Chemistry 11 is designed to be an introduction to the fundamentals of chemistry for the science-bound student. Students will learn about the composition of matter and how one kind of matter can be changed into other kinds of matter. The topics covered in class are reinforced with laboratory work. Topics covered include: matter, atomic theory, the periodic table, chemical bonding, naming compounds and writing chemical formulae, types of chemical reactions, balancing chemical equations, stoichiometry, and an introduction to organic chemistry. Organic chemistry is included in this course because it is recommended for students taking Biology 12.

## **ADVANCED CHEMISTRY 11 (Pre AP)**

(ADVANCED credit) (Provincial Course Code: 011015)

Advanced Chemistry 11 uses a problem-solving approach to the study of chemistry. It emphasizes chemical principles rather than descriptive chemistry and the relationship between experiment and theory. This program is an excellent introduction to chemistry for those students who have an above average interest and ability in science. Topics include: atomic theory, periodic law, chemical bonding, liquid and solid phases, organic chemistry, naming compounds and writing formulae, mole calculations and chemical equations.

## **OCEANS 11**

(ACADEMIC credit) (Provincial Course Code: 011214)

Oceanography 11 is a multidisciplinary course encompassing such scientific fields as biology, chemistry, physics and geology. This course explores the relationship between marine organisms in various ocean environments, examines basic chemical principles of seawater, investigates the concepts of waves, tides and currents and their effects on coastlines, and delves into the structures of the ocean bottom involved in the formation of ocean basins and the concept plate tectonics. Emphasis will be placed on the importance of the ocean as a sustainable resource with particular interest in the ocean environment of the Atlantic Provinces.

## **PHYSICS 11**

(ACADEMIC credit) (Provincial Course Code: 011150)

Physics 11 is an introduction to the fundamentals of Physics for the science-bound student. Topics covered include motion, forces, sound, light and wave theory. The main focus of the course is a conceptual understanding of the curriculum through classroom demonstrations, discussions, problem solving and lab

work. Measurement, algebra and numerical computation are developed as tools for understanding the world around us.

## **Grade Twelve Courses**

### **BIOLOGY 12**

(ACADEMIC credit) (Provincial Course Code: 011156)

Biology 12 explores continuity of life as a central theme. Students will learn about reproduction and development, and study the homeostatic mechanisms of the nervous and endocrine systems within this context. Other topics include heredity and genetics, biotechnology, and evolution through genetic variation. Lab work, class discussion and project work are stressed. This course is recommended for students considering careers in science or science-related fields [e.g. health professions].

### **ADVANCED PLACEMENT BIOLOGY 12**

(ADVANCED credit) (Provincial Course Code: 011011)

AP Biology 12 is a continuation of Advanced Biology 11 (Pre AP). This course gives students the opportunity to earn a full University Biology Credit while still in High School. The topics covered are similar to those in Academic Biology 12 but are studied in greater depth. There is an extensive lab component as well as independent study. The topics include: The Cell Cycle, Sexual Reproduction, Mendelian Genetics, Molecular Genetics, Evolution, and the Nervous, Immune and Endocrine Systems as they relate to homeostasis. The course is recommended for students considering a career in the Life Sciences.

### **CHEMISTRY 12**

(ACADEMIC credit) (Provincial Course Code: 011151)

The Chemistry 12 course is a continuation of Chemistry 11. Topics include: select Chemistry 11 review, solutions, thermochemistry, chemical kinetics and equilibrium, acids and bases, and electrochemistry. The course will contain approximately 40% laboratory work (which may include an independent research project) to reinforce concepts learned in class. This course is recommended for students who are considering a career in chemistry or who need chemistry 12 for acceptance into a university program.

### **ADVANCED PLACEMENT CHEMISTRY 12**

(ADVANCED credit) (Provincial Course Code: 011017)

AP Chemistry 12 is a continuation of Advanced Chemistry 11. The course gives students the opportunity to earn a full University Chemistry Credit while still in High School. In addition to the topics covered in Academic Chemistry 12, the AP Chemistry course covers the topics in greater depth and additional topics are included. Students also engage in a research project and guided inquiry experimentation. Topics include: select Chemistry 11V review, thermochemistry, chemical kinetics and equilibrium, acids and bases, and electrochemistry.

## **Food Science 12**

(ACADEMIC credit) (Provincial Course Code: 011138)

Food Science 12 offers students the opportunity to explore aspects of the food industry and the chemistry of food. Topics include: food constituents (physical and chemical properties of food); preservation factors (high temperature and low temperature preservation techniques are explored, including cooking, blanching, pasteurization, sterilization, chilling, freezing, and cold storage), food quality and commodities (exploration of methods to control quality of food during production) and food packaging (food ingredients, labels, and packaging; food product development through sensory analysis).

## **GEOLOGY 12**

(ACADEMIC credit) (Provincial Course Code: 0011211)

Geology 12 is designed to introduce students to the dynamic processes that have shaped and continue to shape our earth. From the origin of the Universe to the asphalt under your feet, this course makes students aware of the connections and importance of Geology in their everyday lives. This course is recommended for students who intend to pursue a career in Geology, and is a course that emphasizes field and lab activities, relying on cooperation and observations. It is therefore also a good general interest course that does not require an extensive science or math background. Some of the topics include Plate Tectonics, Earth's Interior, Mineralogy, The Rock Cycle, Forces and Structures, Geological Time, and Mapping.

## **PHYSICS 12**

(ACADEMIC credit) (Provincial Course Code: 011152)

This course is a continuation of Physics 11. The topics include: motion in two dimensions, projectile and circular motion; mechanics and momentum in two dimensions, electricity and magnetism, atomic structure, spectral analysis, nuclear physics, radioactivity, and nuclear energy. Also included are some of the exciting developments in Modern physics such as quantum physics, and the wave/particle duality of matter and energy. This course is recommended for students who have an interest in physics, are considering a career in science or engineering or who need physics 12 for acceptance into a university program.

# **SOCIAL STUDIES**

## **Grade Ten Courses**

### **HISTORY 10**

(ACADEMIC credit) (Provincial Course Code: 012008)

This course, which focuses on ancient/medieval history, allows students to develop an understanding of the concept of civilization by examining the origins of civilization and comparing some civilizations that have contributed to the nature of the modern world.

The course has six broad chronological divisions: The Evolution of Human Beings; The Birth of Civilizations (including Mesopotamia, Egypt, China, Africa, and the Americas); Greece; Rome; The Middle Ages; and The Renaissance and Reformation.

## **Grade Eleven Courses**

### **Contemporary Canadian Studies 11**

(Academic Credit) is a full-credit contemporary history course that meets the requirements of Canadian Studies 11. Contemporary Canadian Studies 11 offers an in-depth examination of Canada's complex social, governance, and environmental issues. Examining 1945-present, the course provides students with opportunities to explore our country's cultural, political, and historical landscapes. By fostering competencies in critical thinking, communication, and citizenship, this course prepares students to actively engage with and critically assess contemporary Canadian and global issues, encouraging a deeper understanding of the complexities within Canadian society and its place in the wider world. Throughout the course, learners will develop skills that will allow them to explore an independent study, using the research and writing processes, in an area of Canadian history of their choosing.

### **MI'KMAQ STUDIES 11**

(ACADEMIC credit) (Provincial Course Code: 012226)

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

### **AFRICAN CANADIAN STUDIES 11**

(ACADEMIC credit) (Provincial Course Code: 012218)

This course is an introduction to the experiences of African peoples in North America through the study of history. Students will gain an overview of African history and the African diaspora (dispersal) to the "New World" with a particular emphasis on the African Nova Scotian experience. Students will be equipped with a sound understanding of the experiences, local achievements and contributions of people of African descent. Also, students will discuss the geographical, historical, economic, artistic, literary, political and social experiences, struggles and life stories of a people who have made a significant contribution to world history and culture. This course is open to all students, and will involve input from the community. African Canadian Studies 11 satisfies the graduation requirement of a Canadian History course at Grade 11.

## **Grade Twelve Courses**

### **GLOBAL GEOGRAPHY 12**

(ACADEMIC credit) (Provincial Course Code: 012209)

Global Geography is a grade twelve course which may be used to satisfy the requirement for successful completion of the high school program. It features eight compulsory units which are based on the standard themes and skills of the discipline of geography. These units are: Our Fragile Planet, Environmental Hazards, The Peopled Planet, Feeding the Planet, Global Resources, Urbanization, and The Future Planet.

Each unit is based upon a theme the study of which is fundamental to an understanding of our contemporary planetary condition. In combination, the study of these units should help students answer the key question upon which the course is built: “How did the world arrive at its current state at the close of the 20th century?”

## **GLOBAL HISTORY 12**

(ACADEMIC credit) (Provincial Course Code: 012169)

This course, which focuses on global history, examines major themes in the history of the post-World War II era. Students examine these themes in five compulsory units: East-West: The Role of Superpower in the Post-World War II Era; North-South: The Origins and Consequences of Economic Disparity; The Pursuit of Justice; Societal and Technological Change; and Acknowledging Global Interdependence: The Legacy of the Twentieth Century. In their study of these units, students examine history from three perspectives – social, economic, and political – and use the research and inquiry skills of the historian.

Throughout their studies, students address the focus question of the course: “Has humanity emerged into a world whose actions are governed more by interdependence at the global level than by dependence or independence at the national or international level?” They also 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?”

## **GLOBAL POLITICS 12**

(ACADEMIC credit) (Provincial Course Code: 012423)

Global Politics 12 explores a cross-section of global political issues through a critical inquiry process. Global Politics 12 is divided into five units; Global Citizen, Political Systems, Canadian Political System, Comparative Politics and International Politics

## **GEOGRAPHIE PLANETARIE 12 IMM**

(ACADEMIC French Immersion credit) (ACADEMIC credit) (Provincial Course Code: 012208)

See GLOBAL GEOGRAPHY 12 for course description

## **PHILOSOPHY 12**

(ACADEMIC Credit) (Provincial Course Code: 098224)

Do you enjoy asking questions? Can you ask good questions without feeling uncomfortable with answers that are uncertain or incomplete? Do you think logically and become frustrated or annoyed by answers that simply appeal to authority or emotions?

This course will allow you to read and evaluate the claims made by some of the best thinkers and writers in the history of western civilization. Through the study of philosophy students will have the opportunity to think about and debate some of the most important issues that have become central to western culture.

Philosophy is designed for highly motivated students who have demonstrated higher order thinking skills and the ability to work independently.

## **Psychology 12 (Academic Course)**

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

### **SOCIOLOGY 12 ACADEMIC**

(ACADEMIC credit) (ACADEMIC credit) (Provincial Course Code: 012420)

This course is designed to familiarize students with the impact society has on individual behaviour. Students will study a variety of cultures and cultural issues including issues of power and control, racism, crime, and social groups. Students will also gain a better understanding of the role of a sociologist through the development of a research study. The course also utilizes a seminar approach in part where students will be expected to present to their peers a topic chosen by the student in consultation with the teacher. Canadian sociological issues that might be considered include the family, students and schools, poverty, minority groups, women in society, labor and management, conflict, crime in Canada, punishment and rehabilitation, and the future.

## **TECHNOLOGY RELATED EDUCATION**

Technology related courses are designed to satisfy a wide variety of interests and develop skills in trades and technology. The programs include carpentry, plumbing, electrical, film media, photography, metal work, and green technologies. All courses listed below fulfill the requirements for a technology credit.

### **Grade Ten Courses**

#### **CONSTRUCTION TECHNOLOGY 10**

(OPEN credit) (Provincial Course Code:006036 )

The construction technology course helps develop in students an understanding of construction technology, of its applications related to the basic human need for shelter, of the organization of construction, and of construction's impacts on society. Students will work in groups on activities related to residential dwellings. In performing these assigned tasks students will learn the proper use of equipment, materials and methods required in construction. Problem-solving activities are an integral part of this course.

### **Grade Eleven Courses**

#### **BUSINESS TECHNOLOGY 11**

(ACADEMIC credit) (Provincial Course Code: 002354)

Business Technology 11 introduces students to a range of business productivity software tools and their application. Software will include wordprocessor, spreadsheet, and desktop publishing.

In Business Technology 11, students 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 to design and produce documents, and become confident and purposeful users of business productivity software.

Business Technology 11 consists of the following modules:

- Module 1: Touch Keyboarding
- Module 2: Document processing
- Module 3: Spreadsheets
- Module 4: Desktop publishing
- Module 5: Business Technology Fundamentals

## **COMMUNICATION TECHNOLOGY 11**

(ACADEMIC credit) (Provincial Course Code: 327075)

Communication Technology 11 is a course that involves using a hands-on approach to electronic, prints and web communication concepts. It provides all students with hands-on activities and introduces them to a broad spectrum of technological concepts both in traditional media and new Media.

By the end of this course, students are able to use a range of technological tools, process and applications, integrate communication technology with other academic disciplines, design and create communication materials that solve technological problems and explain the consequences of technology and how it affects society. Areas of study include; Fundamentals, Photography, Tech Design, Graphics Design, Web Publishing, Animation, Broadcasting and Video Production.

## **DESIGN 11**

(ACADEMIC Credit) (Provincial Course Code: 327021)

Design 11 involves students in using communication and information technologies to develop solutions to design problems and to conduct inquiries into design issues. Students work independently and as part of design teams to explore design in a range of practical contexts. Modules include; Design Fundamentals, Communication Design, The Build Environment, Product Design and Design Team or Independent Project

## **PRODUCTION TECHNOLOGY 11**

(OPEN credit) (Provincial Course Code: 006039)

Production Technology 11 is an introduction to the production process based on custom production. Students will solve real world problems in both the production and computer labs, paralleling today's commercial production. This will give students the opportunity to take part in product planning, product design, product fabrication, product testing, and product analysis. Impact of production on society, individuals, and the environment will also be discussed. By the end of the course students will have had the opportunity to learn about and use various types of hand and power tools, as well as several production machines used in industry today.

## Grade Twelve Courses

### **COMMUNICATION TECHNOLOGY 12**

(ACADEMIC credit) (Provincial Course Code: 327075)

Communication Technology 12 builds on the fundamental knowledge and skills acquired in Communication Technology 11, which include the theory, technology, design, and equipment associated with the processing and transferring of information. Traditional television and radio broadcast, multimedia/new media, digital and analogue audiovisual communication, networked communication, mass media and instructional design.

### **COMPUTER PROGRAMMING 12**

(ACADEMIC Credit) (Provincial Course Code: 100073)

Our you curious about what happens inside the computer after you click the mouse? Hundreds of thousands of lines of instructions are executed to make the computer do something. The course is designed to teach students how to write these lines of instruction. Computer Programming will facilitate the further development of students' analysis, design, and problem-solving skills as they learn programming language and use it to create computer software.

Object-orientated analysis and design techniques are introduced as high-level tools that facilitate problem understanding and algorithm development independent of the target implementation language. Students will apply their developing programming skill to the solution of real-world problems.

### **FILM AND VIDEO PRODUCTION 12**

(ACADEMIC credit) (Provincial Course Code: 327023)

Film and Video Production 12 involves students in the production of a film or video. Students work independently and as part of a production team to explore roles in the film industry, develop skills required in production roles, develop a critical awareness of historical and cultural aspects of film, and work through the process of producing a film or video from script development to final edit. Modules for this course include Fundamentals, Production Team Skills, Film Industry Disciplines and Careers, and Film Development and Production.

### **MULTIMEDIA 12**

(ACADEMIC credit) (Provincial Course Code: 327068)

Multimedia is a course that explores the beliefs of a society and its culture through its use of modern media. How do we come to understand what beauty is, what is truth, justice, and success are all questions society is striving to define for itself.

These concepts will be explained through lectures and visual examples. Students will use various computer programs to create visual statements and images around the topics discussed in class.

The focus of the course will be to understand how modern forms of media influence our ideas and beliefs, and ultimately, how we think about ourselves.

This course satisfies the technology requirement.

## **PRODUCTION TECHNOLOGY 12**

(OPEN credit) ((Provincial Course Code: 006040)

Production Technology 12 gives students the opportunity to improve their production skills. The course is based on mass production and the challenges of creating multiple copies of a product without error. This will involve the use and creation of unique templates and guides to ensure quality of work. Students will also look into the reasons why items are mass produced, what factors lead to mass production, and what factors lead to custom production. By the end of the course students will have been exposed to the various parts of the mass production process and been able to attempt each of them.

## **SKILLED TRADES 12 CO-OP**

(ACADEMIC Credit)

In Trades 12 co-operative education courses, students will apply and extend their previous learning in work placements. Production, analysis, and reflection will be the major learning outcomes.

\*\*\* Sometimes items addressed in the course booklet change before the booklet is updated online. If you have any questions about information in the booklet you should check with Administration or your School Counsellor.