

# CENTRAL KINGS RURAL HIGH SCHOOL

## COURSE HANDBOOK 2019 - 2020

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### *Dates to Remember*

Course Fair	FEBRUARY 12
Grade 9-11 Parent/Guardian Information Session	FEBRUARY 12 at 6pm Snow Date: FEBRUARY 14
Course Registration Forms Due to Office	FEBRUARY 19
Online Course Registration	FEBRUARY 28- MARCH 15

This booklet contains important information for students to use in making course choices to pursue career and work goals. A student's ability, aptitude and interests should be considered when making course selections. Student Services is available to consult with students to answer questions and provide resources to help students make decisions about career pathways.

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## GENERAL INFORMATION

### COURSE CODES

**Definition of a Credit:** A credit is awarded for the successful completion of an approved course that would normally be completed in a minimum of 110 hours of scheduled time. Each high school course is coded by the Department of Education based upon the category of the course and its level of difficulty. The credit types are as follows:

**Advanced Placement (AP):** An international program offering standardized exams that allows students, if successful on the exam, to potentially obtain university credits.

**Advanced (Adv):** Designed for students who have demonstrated an exceptional degree of academic ability or achievement.

**Academic (Acad):** Designed for students who expect to enter college, university or other post-secondary institutions.

**Open (Open):** Although none of these courses is designed to meet specific entrance requirements of any post-secondary institution, individual courses may be accepted by some institutions. Courses of this nature are also very useful in providing a balanced and well-rounded education for all students.

**Graduation (Grad):** Designed for students who wish to obtain a graduation diploma with the goal of proceeding to direct employment or to many programs offered through Community Colleges.

Course Credit Types		
Courses are categorized as one of the following types:		
Academic/Advanced		Courses designed for students who expect to enter college, university, or other post-secondary institutions.
Graduation		Courses designed for students who wish to obtain a graduation diploma with a view to proceeding to employment or selected areas of post-secondary study.
Open		None of these courses is designed to meet the specific entrance requirements of any post-secondary institution, but individual courses may meet entrance requirements of some institutions.
<b>POST-SECONDARY INSTITUTION REQUIREMENTS ARE CONSTANTLY CHANGING; THEREFORE, STUDENTS NEED TO REGULARLY CHECK THE ENTRANCE REQUIREMENTS FOR SPECIFIC PROGRAMS. THESE ARE EASILY ACCESSED THROUGH THE INSTITUTIONS' WEBSITES AND ARE LISTED BELOW .</b>		

### REQUIREMENTS FOR POST-SECONDARY EDUCATION

Post-secondary institutions include: universities, private colleges, technical schools, and community colleges. Post-secondary institutions vary considerably in the courses they require and students need to ensure they have the credits needed to meet admission requirements. These are easily accessed through the institutions' websites and calendars or through Student Services. **The ultimate responsibility for course selection rests with students and parents/guardians.** Grade Nine is not too soon to be exploring future options.

**University:** Acceptance into a university program usually requires an average of 65 – 70% or greater in five (5) grade 12 Academic or Advanced courses. English Communications 12 does not meet admission requirements for university. Academic Math 12 is not a requirement for all university

programs, only those that require ongoing mathematical studies. Courses coded as “open” may or may not be accepted by universities for admittance purposes. Other courses such as Co-op courses, Health and Human Services or Medical Technology may not be accepted as university admissions courses. It is important to check admissions requirements

**Community College:** The majority of community colleges accept all credit types (Academic, Advanced, Graduation and Open) but many require specific, academic credits for particular programs. Most programs at Community College require a “High School Graduation Diploma” which means any credit type is acceptable as long as the student has completed high school.

**Atlantic Canadian Universities and Colleges:** This is a list of many, but not all, public Atlantic Canadian colleges and universities and a link to their admission requirements.

Acadia University: <http://admissions.acadiau.ca/>

Cape Breton University: <http://www.cbu.ca/come-to-cbu/admissions/admission-requirements/>

Dalhousie University: <https://www.dal.ca/admissions.html>

Holland College: <http://www.hollandcollege.com/admissions/>

Memorial University: <http://www.mun.ca/undergrad/admissions/index.php>

Mount Allison University: <https://www.mta.ca/requirements/>

Mount St. Vincent University:

<http://www.msvu.ca/en/home/beamountstudent/HighSchoolStudents/canadianhsadmissionsreq/default.aspx>

Nova Scotia Community College: [http://www.nsccl.ca/learning\\_programs/programs/default.aspx](http://www.nsccl.ca/learning_programs/programs/default.aspx)

St. Mary’s University: <http://www.smu.ca/future-students/cs-admission-requirements.html>

St. Francis Xavier University: <http://www.stfx.ca/apply/requirements>

St. Thomas University: <http://w3.stu.ca/stu/futurestudents/requirements/canadian/>

University of Kings College: <http://www.ukings.ca/admission-requirements>

University of New Brunswick: <http://www.unb.ca/admissions/requirements/index.html>

University of Prince Edward Island:

<http://www.upei.ca/programsandcourses/undergraduate-admissions/arts-business-science>

Université Sainte-Anne: <https://www.usaintanne.ca/admission>

## COURSE OFFERINGS

**NOTE: (1) Courses will be offered depending on the number of students who have requested a course. (Low request numbers in a course may mean we cannot offer that particular course.)**

**(2) Students and parents need to make careful selections as, in most cases, the students will be locked into the courses they have selected.**

**(3) Students will register for their courses online through the student portal at school from February 28-March 8, 2019.**

## COURSE SELECTION

All high school students in Grades 10, 11, and 12 could potentially be scheduled for both semester and non-semester courses in 2019-2020. Exams will only be written at the end of the course – in January and June for semester courses and in June for yearlong courses.

**Students registering for Grade 10** courses need to register for the following subjects: English, Math, Science & a Canadian Studies credit. It is also recommended to consider a Physical Education credit and a Fine Arts credit.

**Students in Grades 9 to 10 are required to take 8 courses per year.**

**Students in Grade 11 are required to take 7 courses per year; one study period is permitted.**

Grade 12 graduating students are permitted to take a reduced course load based upon the courses completed and graduation/post-secondary requirements, although they are encouraged to take a full course load of at least 3 credits each semester, especially if they plan to attend post-secondary programs. In order to be eligible to participate in a Nova Scotia School Athletic Federation-sponsored

activity, a student must be **taking at least three (3) courses during the semester that the activity is taking place**

### CHANGING/ DROPPING COURSES

**Changing Courses:** The deadline for all students in Grades 9-12 to make changes to their scheduled courses is **within ten (10) school days from classes beginning** in either semester 1 or semester 2. After this deadline, students in **Grades 10 and 11 must remain in that course** for the remainder of the semester and are not permitted to either change or drop that course.

**Dropping Courses:** If a **Grade 12** student drops a semester or year-long course before October 1<sup>st</sup>, or a second semester course before March 1<sup>st</sup>, that course will not be included on the student's official transcript. Students who find it necessary to drop a course after the course change deadline (10 days) or the course drop deadline (1 month) shall receive a failing grade and/or a "W" for Withdrawal in that course. This will also make the student ineligible for honours standing.

### HOMEROOM POLICY

Grade level placement (e.g. Grade 10 homeroom), is based on the number of credits (courses) that a student has successfully completed. Please refer to the chart below.

<b>Minimum Requirements for Homeroom Placement</b>	
To be placed in the following homeroom grades, students must have the following.	
<b>Grade 10:</b>	6 credits from Grade 9
<b>Grade 11:</b>	5 credits
<b>Grade 12:</b>	10 credits <b>AND</b> the student must be able to graduate in the current school year.

### HONOURS POLICY

The Honours Standing is based upon an average of the final or term marks/grades of the following number of courses taken during the current year or term (including courses completed by correspondence, independent study, and/or challenge for credit.)

\* Grades 9, 10, 11 - best six (6) courses with no "W" or failing grade \*Grade 12 - best five (5) courses with no "W" or failing grade\*

Students who are enrolled for one (1) semester only in any given year are eligible for Honours standing by taking a minimum of three (3) courses in that semester.

For an average of 80% or higher, the student will receive an Honours standing.

For an average of 90% or higher, the student will receive Honours with Distinction standing.

Note: Honour students may not have a final failing grade or a "W" in any course for the term or year or they will not be eligible for an honours standing.

### NSSAF ELIGIBILITY

In order to be eligible to participate in a Nova Scotia School Athletic Federation-sponsored activity, a student must be **taking at least three (3) courses during the semester that the activity is taking place.**

### RESOURCE INFORMATION

Resource assistance is provided for students experiencing difficulty with the academic curriculum. Depending upon the amount of support required, resource sessions may consist of:

- a) a regularly scheduled period,
- b) a pull out session from a particular subject,

c) in class support

d) or a combination of these options.

Students must have a written recommendation from their current resource teacher to register for resource for the following school year. Students may also receive resource support upon recommendation from their present subject teachers in consultation with the resource teacher.

## HIGH SCHOOL GRADUATION REQUIREMENTS

Nova Scotia High School Completion Certificate for students entering Grade 10		
Credits to Graduate	18	* Except for O <sub>2</sub> students who require 19 credits
English	3	1 at each grade level
Mathematics	3	One at each Grade 10, 11 and 12 levels.
Science	2	1 from Science 10, Biology, Chemistry, or Physics <i>And</i> 1 other approved Science
Science, Math or Technology	2	from Math, Science or Technology (includes Exploring Technology 10, Food Technology 10, Math 10 2nd credit, Skilled Trades 10, Business Technology 11, Construction Trades 11, Energy, Power & Transportation 11, Extended Math 11 2nd credit, Transportation Trades 11, Film & Video 12, Medical Technology 12, Multimedia 12, Production Technology)
Social Studies	1	African Canadian Studies 11, Canadian History 11 or Mi'kmaw Studies 11
Global Studies	1	Global History 12, Global Geography 12 or Global Politics 12
Fine Arts	1	Music, Art, Drama or Dance 11* <i>*Dance can be considered a Fine Art OR a Phys Ed credit, but not both</i>
Physical Education	1	Physical Education 10, Physically Active Lifestyles (PAL) 11, Yoga 11, Physical Education Leadership 12, or *Dance 11
NOTES:		<ul style="list-style-type: none"> <li>* No more than 7 credits may be at the Grade 10 level</li> <li>* No fewer than 5 credits must be at the Grade 12 level</li> <li>* Credit cannot be given for two courses in the same subject at the same grade level. For example, a student cannot receive credit for both Biology 11 and Human Biology 11 or English 12 and English Communications 12.</li> </ul>

# EDUCATION PLANNING CHART

Career Goal: \_\_\_\_\_

Educational Program After Completion of High School : \_\_\_\_\_

Entry Requirements: \_\_\_\_\_

1. Select the courses you would like to take for the next year, keeping in mind:

**Graduation requirements based on the year you plan to graduate; Courses available; Course requirements for education and career goals; Recommended Prerequisite courses**

2. Write in courses that you are certain about, followed by the more tentative choices. Place a question mark (?) beside the least certain choices.

Grade 10 Credits Achieved/Planned	Grade 11 Credits Achieved/Planned	Grade 12 Credits Achieved/Planned
1.	1.	1.
2.	2.	2.
3.	3.	3.
4.	4.	4.
5.	5.	5.
6.	6.	6.
7.	7.	7.
8.	8.	8.
<b>Total Credits</b>	<b>Total Credits</b>	<b>Total Credits</b>
Other Possible Courses	Other Possible Courses	Other Possible Courses
1.	1.	1.
2.	2.	2.

Questions I would like answered/Additional information I would like to have:

CK Record of High School Credits 2019-20		TOTAL CREDITS TO DATE:
	<b>English:</b> 10 ___ 11 ___ 12 ___	
1	<b>Fine Arts:</b> Music 10 ___ Music 11 ___ Music 12 ___ V. Art 10 ___ V Art 11 ___ Art 12 ___ Drama 10 ___ Drama 11 ___ Drama 12 ___ *Dance 11 ___	<b>Electives</b> Art Entrepreneurship 12 ___ Career Development 10 ___ Co-op 11 ___ Co-op 12 ___ Child Studies 11 ___ Economics 11 ___ French 10 ___ 11 ___ 12 ___ Geography 11 ___ Health & Human Services 12 ___ History 10 ___ History 11 ___ Law 12 ___ Psychology 12 ___ Sociology 12 ___  <b>02 Required Credits</b> Career Development 10 ___ Community Based Learning 10 ___ Career Development 11 ___ Workplace Safety 11 ___ Coop ___ Coop ___ Coop ___
6/7**	<i>Math, Science and Technology:</i> <b>Mathematics:</b> Math10 ___ Math at Work 10 ___ Math Ess 10 ___ <b>(3***)</b> Math 11 ___ Extended Math 11 (2) ___ PreCal 11 ___ Math at Work 11 ___ Math Ess 11 ___ Math 12 ___ Math at Work 12 ___ Math Ess 12 ___ PreCal 12 ___ Calculus 12 ___  <b>Sciences (2):</b> Science 10 ___ Agriculture 11 ___ Biology 11 ___ 12 ___ Hum Bio 11 ___ Chemistry 11 ___ 12 ___ Oceans 11 ___ Physics 11 ___ 12 ___ Geology 12 ___ <b>(one of two credits must be either Sc 10, Bio 11, Chem 11 or Physics 11)</b> <b>Technology:</b> Exploratory Technology 10 ___ Food Prod/Technology 10 ___ Math 10 (2nd credit) ___ Skilled Trades 10 ___ Business Tech 11 ___  Construction Trades 11 ___ Energy, Power & Transportation ___  Ex Math 11 (2nd credit) ___ Transportation Trades 11 ___ Film & Video 12 ___ Medical Tech 12 ___ Multimedia 12 ___ Production Tech 12 ___	
1	<b>Personal activity:</b> Phys Ed 10 ___ PAL 11 ___ Yoga 11 ___ Phys Ed Lead 12 ___ * Dance 11 ___	<b>Credits Needed to Graduate:</b>
1	<b>Global Studies:</b> Global Geography 12 ___ Global History 12 ___ Global Politics 12 ___	
1	<b>Social Studies:</b> African Can Studies 11 ___ Canadian History 11 ___ Mi'kmaq Studies 11 ___	
Total Number of Credits Completed		
<b>Grade 10 credits (max 7)</b>	<b>Grade 11 credits</b>	<b>Grade 12 credits (min 5)</b>
English 10 _____	English 11 _____	English 12 _____
Math10 _____	Math11 _____	Math 12 _____
Science 10 _____	Can. SS _____	Global 12 _____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
<b>Form revised Jan/19</b>		

\* Dance 11 can be counted only as a Fine Art **OR** Physical Activity credit not BOTH

**\*\*Three Mathematics credits are required for students that entered Grade 10 in 2017-18.**

## **PROGRAM OPTIONS**

### **CAREER ACCESS**

The Career Access Program is a highly modified 3-year program which covers grades 10-12. Students enrolled in this program take subjects with modifications to curriculum outcomes and Individual Program Plan (IPP) courses. Students receive important on-the-job training with local businesses through a Co-op component. Students are recommended to this program by administration, teachers, and school counsellors, and must go through an interview process to demonstrate a need and a desire to be enrolled in this alternate program. Students in this program are focused on workplace employment directly following graduation.

### **OPTIONS AND OPPORTUNITIES (O2)**

Options and Opportunities is an academic program designed to assist students who are seeking alternative options to traditional learning. High school students who participate in the program get hands-on experience in a career academy and increased opportunities for community-based learning such as co-op credits and short-term work placements. The O2 program will be linked to post-secondary education and training and other opportunities such as apprenticeship. O2 builds on initiatives introduced through the Youth Pathways and Transition strategy. The O2 program components are Community-Based Learning Partnerships, Skills for the Workplace, Integrated Career Education and Planning, Instructional Teaming, Expanded Course Options, Connecting with Families, and Head Start in the Trades. O2 is available for students entering grade 10. There is an application and interview process required to be accepted into this program. .

### **SKILLED TRADES**

Nova Scotia's skilled trades sector is one of the highest job opportunity sectors that this province has to offer. Recognizing the importance of this option for our students, the Department of Education and Early Childhood Development developed a suite of courses focused on the skilled trades. These courses promote career exploration and skill development in the trades, and cater to a wide variety of learning styles.

Skilled Trades courses are the starting point for Nova Scotia high school students who want to explore the skilled trades as a possible career option. Skilled Trades courses provide a mixture of theoretical and practical workplace activities. Students spend approximately 80% of their time completing actual trades tasks and projects using the basic tools of industry professionals. Skilled Trades courses that will be offered at Central Kings include: Skilled Trades 10, Construction Trades 11, Transportation Trades 11.

Skilled Trades courses are designed to be taught by certified journeypersons. As the result of an agreement between the Nova Scotia Departments of Education, and Labour and Advanced Education, students receive apprenticeship hours, upon registration, based on the actual time in class while under the supervision of a certified journeyperson teacher.

Whether students move into a skilled trades occupation or not, they will have acquired transferable skills that will serve them throughout their lives. **Skilled Trades courses are academic credits and count as Technology credits.**

## OTHER CREDIT OPTIONS

### **AVRSB VIRTUAL ADVANCED PLACEMENT (AP) COURSES:**

The Virtual Advanced Placement (AP) Program is designed to provide an enriched curriculum to students of AVRCE. AP courses are considered to be first-year university level and can lead to a university credit if the student is successful on the College Board exam written in May. Currently, AVRCE offers AP Biology, Calculus, Chemistry, Computer Science, English Literature and Composition, and Human Geography to Grade 11 and 12 students virtually outside of normal school hours. For more detailed information on the Virtual AP courses, please visit the AVRCE website at [www.avrce.ca](http://www.avrce.ca) and search for *Advanced Placement*. The AVRCE AP Lead Teacher will be visiting our school in late February/early March for an AP Information Session to answer questions about the program. Registration takes place in March of each school year. Please see Student Services for further info.

#### **Advanced Placement Biology 12 (BIO AP 12), Advanced, 1 credit**

AP Biology is designed to offer students a solid foundation in introductory-level biology. In this course, you will be held to high expectations and mature responsibilities just like a university freshman taking Intro Biology. What we know today about biology is a result of inquiry. Science is a way of knowing. Therefore, the process of inquiry in science and developing critical thinking skills is the most important part of this course. This course will emphasize how scientists use their observations and readings to ask questions that can lead to new experiments. These experiments build on the work of others and eventually lead to additional evidence on different topics. This investigative process will be used throughout this AP Biology course. It is important for students to become excited with discovery as they ask and answer their own questions about natural/biological phenomena that they see, read about, or experience in the laboratory and field. Students meet virtually with the instructor twice per week beginning in September, ending upon completion of the AP Biology exam in May. Also, students will be required to travel to the lab site for two full day labs along with four-five after-school (2:00-5:00) labs.

#### **Advanced Placement Calculus 12 (AP CAL 12) Advanced, 1 credit**

AP Calculus 12 (Calculus AB) presents the rigor and depth comparative to introductory university calculus. The focus of this course includes both a study of differential calculus and integral calculus. As well, the AP Calculus course contains topics to develop rich problem-solving skills. Students meet virtually with their teacher twice per week beginning in September, ending upon completion of the AP Calculus exam in May. AP Calculus is designed to have a prerequisite of Math 11 and Pre-Calculus 11 and a co-requisite of Pre-Calculus 12.

#### **Advanced Placement Chemistry 12 (CHEM AP 12) Advanced, 1 credit**

The AP Chemistry course is designed to be the equivalent of the general chemistry course usually taken during the first university year. For some students, AP Chemistry enables them to undertake, in their first year, second-year work in the chemistry sequence at their institution or to register in courses in other fields where general chemistry is a prerequisite. For other students, the AP Chemistry course fulfills the laboratory science requirement and frees time for other courses. Students who take AP Chemistry will develop advanced inquiry and reasoning skills, such as designing a plan for collecting data, analyzing data, applying mathematical routines, and connecting concepts in and across domains. The result will be readiness for the study of advanced topics in subsequent university courses. Students meet with their instructor twice a week from the beginning of September to May in

a synchronous online environment to examine the main concepts from each unit of study. Many resources (notes, videos, worksheet answer keys, etc.) are provided weekly to help students be successful! The AP Chemistry course requires the completion of laboratories. Students will travel to the lab site for two full day and three half-day laboratory sessions that will include engagement in a variety of hands-on inquiry-based experiments and chemistry demonstrations.

### **Advanced Placement Computer Science A (AP CMP SCI 12)**

#### **Advanced, 1 credit**

APCSA is a Computer Science course that focuses on introducing students to computer programming using the Java programming language. The course will consist of labs, tests, and assignments. This course will help prepare you for entry into a university or college program in Computer Science or a similar field. No prior programming knowledge is required to take this course, however, the learning curve is steep, so be prepared to step up to the challenge from day one. Students meet virtually with their teacher twice per week beginning in September, ending upon completion of the AP Calculus exam in May. With each year, more and more universities are requiring students to have computer science experience. Why not put your skills to the test without worrying about tuition fees? Software developers are in demand all over the world, so take the first step towards a career in the world of tomorrow.

### **Advanced Placement English Literature and Composition 12 (ENG LIT AP 12)**

#### **Advanced, 1 credit**

This AP English Literature and Composition 12 course provides students with an enriched program of study on literature and writing, using a variety of texts as the means to achieving this goal. The course explores literary elements such as a work's structure, style and themes, as well as the use of figurative language, imagery, symbolism and tone. It seeks to develop your writing skills as you express your ideas and analysis in expository, analytical, and argumentative essays. Course work is accelerated. Students meet virtually with the AP English teacher twice per week beginning in September, ending upon completion of the AP English exam in May. The AP English credit does satisfy the requirements as a third NS English credit. The AP English course is designed to have a pre-requisite of Advanced English 11 or English 11.

### **Advanced Placement Human Geography (HUM GEO AP 12)**

#### **Advanced, 1 credit**

The Human Geography course is designed to be the equivalent of an introductory human geography course usually taken by geography majors during their first year of university. This course is an in-depth, content-intensive study of geographic concepts/topics and models dealing with all aspects of human geography. Students meet virtually with the AP Human Geography teacher twice per week beginning in September, ending upon completion of the AP Human Geography exam in May. The AP Human Geography credit does satisfy the global studies requirements for Nova Scotia graduation. Having some Geography background will be an asset but not required. Having a strong academic background, being self-motivated, outgoing and comfortable with completing work independently are ingredients for successful learning in the course.

**CHALLENGE FOR CREDIT:** Challenge for Credit gives students in Grades 10, 11 and 12 an opportunity to acquire a high school credit for knowledge, skills and attitudes which may already have been achieved. With acceptable documentation students may receive a high school credit for work or activities already completed in Fine Arts (Music, Art, Drama), Languages (French, German, Spanish), Physical Education, and Mathematics. An application for Challenge for credit must be completed by October 15th for first semester courses and March 20th for second semester courses. For further information students should check at Student Services.

**INDEPENDENT STUDY CREDITS:** Students in Grades 11 and 12 may obtain credit for a course by working independently and accepting responsibility for their own learning. The course will be developed with the advice of a teacher and tailored to the needs, abilities and interests of the student. Independent study credits are not to replace existing courses in the public school program. Students may earn a maximum of two independent study credits to be used towards graduation. Successful completion requires the approval of the supervising teacher, the school counselor and the principal. Courses developed as independent study credits would normally be completed in a minimum of 110 hours for full credit courses, 55 hours for half-credit courses. The student is responsible for initiating the independent study credit process and satisfying all of its requirements. It is the responsibility of the student to:

a) demonstrate an ability to work independently with minimal direction, b) design and develop, with advice and guidance from the supervising teacher, a plan for completing the independent study credit including a course outline, learning and assessment plan, c) organize and complete learning experiences and activities involved in this plan, d) cooperate with supervising teacher throughout the independent study credit process. For further information, see the School Counsellor.

**NOVA SCOTIA VIRTUAL SCHOOL CREDITS:** N.S. Virtual School provides an opportunity for a limited number of high school students in the AVRSB to complete PSP courses online. Students should contact Student Services for more information. Courses that are available for online instruction can be found at: <http://www.nsvs.ednet.ns.ca>

**PERSONAL DEVELOPMENT CREDIT:** Students who have successfully completed a course or a program outside of school that has been approved by the Department of Education will be eligible for a Personal Development Credit. The credit will be entered on a student's high school transcript and may count toward **one of the five** elective credits required for graduation. A Personal Development Credit may be awarded as a Grade 10, 11 or 12 credit and depending on the time required to complete the course or program, may qualify as a full or half credit. More information is available about the Personal Development Credit on the Department of Education's website: <https://pdc.ednet.ns.ca/>.

Some of the approved programs for the Personal Development Credit include: Cadet courses, Dance Nova Scotia programs (Highland Dance, Dance NS Ballet, and Ballet), Girl Guides of Canada certifications, Gymnastics NS coach program, Junior Achievement Programs, Italian Language School courses, Lifesaving Society of NS, Nova Scotia 4-H Program for Gold level achievement, NS Equestrian Federation coaching certifications, Royal Conservatory Music courses, Scouts Canada awards and Skate Canada Coaching certification.

Students complete the program and receive certification and course documentation from the approved institution. That document is then taken to the school counsellor and a Student Notification Form will be filled out by the student, parent and school for the course credit. Although only one elective credit can be used for graduation requirements, other approved courses that a student has completed may be listed on the student's transcript.

## **COURSE DESCRIPTIONS**

*Availability of Courses Listed: There are many factors that determine whether or not the courses listed in this booklet are offered during the upcoming year. These include staff allocation assigned to Central Kings Rural High School by the AVRSB and/or the number of students who enroll for a certain subject area.*

### **BUSINESS EDUCATION**

#### **ARTS ENTREPRENEURSHIP 12 (Academic) 1 credit**

Are you passionate about the Creative Arts? Do you want to pursue a career in the Arts? Nova Scotia's creative economy is increasingly recognized as a significant generator of economic growth and a vital contributor to quality of life in our communities. This course fuses art with business and presents a unique opportunity to learn about entrepreneurship in a field of the arts sector that interests you. Developed as a cross-disciplinary course (Visual Arts, Drama, Dance, and Music), Arts Entrepreneurship 12 provides hands-on learning experiences both in the classroom and in the community as you explore possible careers in the cultural sector. You will learn how to write a business plan, apply for arts grants and other funding, create promotion and marketing materials, and actually launch a business. You will also have the chance to work with people in our community who are successfully self-employed in the arts. The curriculum focuses on project-based learning and portfolio development, all designed to engage students in 21st century skills including critical thinking, innovation, creativity, problem solving, communication, and collaboration. Learning experiences will encourage students to be receptive to new ideas, to seek creative solutions to entrepreneurial problems, and deepen your understanding of Nova Scotia's vibrant cultural sector. Prior completion of one Fine Arts credit is recommended before taking this course.

#### **BUSINESS TECHNOLOGY 11 (Academic) 1 credit**

This course allows students to develop a basic proficiency in 'touch' keyboarding while integrating this skill with document processing. The course will also examine document design and apply principles and practices of desktop publishing to design and produce documents and the power of spreadsheets to manage data with low-level programming. Some math/logic skills are required.

#### **ECONOMICS 11 (Academic) 1 credit**

Economics 11 is an introductory course focusing on basic economic theory and how people with unlimited needs/wants attempt to satisfy this demand with limited resources. The economics of the Annapolis Valley, Nova Scotia, Canada as well as the global economy will be examined throughout the course.

### **COOPERATIVE EDUCATION**

#### **CO-OP 12 – Co-operative Education 12 (Open to all grade 11 and 12 students) 1 credit**

Co-op 12 is a course that requires 25 hours of class preparation time and then 100 hours of work placement. These 100 hours can be completed over first and second semester. Co-op allows the student to "try on" an area of interest of either further education or eventual employment placement. An interview is required to be accepted into this course.

### **ENGLISH LANGUAGE ARTS**

#### **ENGLISH 10 (Academic) 1 credit**

English 10 will integrate reading, writing, speaking, viewing, listening, and thinking skills into a variety of units and texts. Critical thinking skills will be encouraged and fostered throughout the program.

*Provincial Exam: There is a mandatory provincial exam at the end of the semester worth 20%.*

### **ADVANCED ENGLISH 11 (Advanced Academic) 1 credit**

Advanced English 11 offers a challenging curriculum for self-motivated students with a passion for language, literature and learning. This course is characterized by enriched content and extended curriculum outcomes. Learning experiences focus on in-depth treatment of selected topics and sophisticated texts, independent learning and reflection, extended research projects, creation of texts and related learning experiences. ***It is recommended that students taking this course have achieved 80% or higher in English 10.***

### **ENGLISH 11 (Academic) 1 credit**

In English 11 students begin the process of critically analyzing texts by exploring a variety of literary genres. A participatory classroom atmosphere will be encouraged. Students will also need to work on their own to complete individual assignments, projects, research, and oral presentations. Enrolment in this program requires successful completion of English 10.

### **ENGLISH COMMUNICATIONS 11 and 12 (Graduation) 1 credit each**

English Communications courses are intended primarily for non-university-bound students and are designed to engage students in practical, yet interesting language experiences closely related to their lives and the world. These courses are designed to be flexible, meeting individual student needs and interests. A student who completes ECM 11 could move into ENGLISH 12, but any student considering this should consult with teachers and the guidance office.

### **ADVANCED ENGLISH 12: *Shakespeare* (Advanced) 1 credit**

English 12 is an extension of Advanced English 11. Because of the academic rigor, it is strongly recommended that students have successfully completed Advanced English 11 with a minimum of 80%. This course will offer a challenging curriculum for self-motivated students with a passion for language, literature, and learning. It will engage students, independently and collaboratively, in critical and analytical responses to numerous literary texts--plays, poetry, film, fiction and nonfiction--with a major focus on Shakespeare's enduring literary and cultural influence.

### **ENGLISH 12: AFRICAN HERITAGE (Academic) 1 credit**

This course is designed to prepare students to meet key stage outcomes for Grade 12: Speaking and Listening; Reading and Viewing; and Writing and Other Ways of Representing, through a variety of learning and teaching strategies, and assessment practices. This course will engage students in a critical and analytical response to numerous literary texts, with a major focus on African Heritage, including: short fiction, the novel, poetry, spoken word, and various elements of African oral traditions. Effective argument is emphasized in oral, written forms and other ways of representing English 12: African Heritage fulfills the English language arts requirements for graduation.

### **ENGLISH 12 (Academic) 1 credit**

English 12 is the senior level of the three compulsory English courses needed to graduate. Students will be challenged to develop their abilities in all aspects of communication. Enrolment in this program requires successful completion of English 11.

## **FAMILY STUDIES**

### **FOOD TECHNOLOGY, PREPARATION AND SERVICE 10 (Open) 0.5 +0.5= 1 credit**

Food Technology (1/2 credit), Preparation and Service (1/2 credit) is a full credit course. Students may study Food Safety Level 1 provincial certification course work with the possibility of passing a test

for a 5 year certificate. Students work independently and in groups to gain knowledge and experience in public food service, kitchen management, current nutrition research and food marketing strategies. Students' practical hands on experiences will apply industry standards for food preparation using time management and math skills. **This course may be used as a Technology credit for graduation purposes.**

### **CHILD STUDIES 11 (Open) 1 credit**

Child Studies is a credit designed to develop in students the understanding of human development, relationships, and the knowledge and skills necessary for future parenting. Mature topics are addressed and it is recommended for students to be in grades 11 or 12. Students who register in this course will have the opportunity to experience parenting through the use of Real Care Baby, a computerized baby simulator and many other practical experiences, hands on projects and planning real life-like events including personal management throughout your lifecycle.

### **HEALTH AND HUMAN SERVICES 12 (Academic) 1 credit**

The course provides students with an introduction to the skills and knowledge involved in careers related to the Health and Human services domain. Community Based Education (volunteer and/or service learning) is a required component used to enhance the knowledge and skills developed in the classroom.

## **FINE ARTS**

### **FINE ARTS CERTIFICATE**

**Note: Students who are interested in growing through the Arts may work towards a Fine Arts Certificate. They must take at least five Fine Arts related courses throughout grades 10, 11 and 12 with three courses being in a single arts discipline (music, visual art, dance or drama), and compile a portfolio. For further information see a Fine Arts teacher or check at the Student Services Office.**

## **VISUAL ART COURSES**

### **VISUAL ART 10 (Academic) 1 credit**

This course is an exploration of art through hands-on activities. Students are encouraged to learn about many different art forms and to develop their artistic skills. Classes will be exposed to a variety of media and techniques including drawing, painting, sculpture, printmaking, collage, and mixed media. Concepts in art theory and history will also be introduced. Art 10 fulfills the Fine Arts requirement needed for graduation. There is a course materials fee of \$25.00.

### **VISUAL ART 11 – Principles of Design (Academic) 1 credit**

This course is an extension of Art 10 and is designed for students who are serious about art and may be interested in pursuing a future in a related field. The principles of design will be explored in more depth, and problem-solving and critical thinking skills will be developed. In addition to more advanced drawing and painting techniques, students will work with new mediums including ink, charcoal, mixed media, and clay and other sculptural materials. Art history is an important component of this course. Students enrolling in this course need to have completed Art 10. There is a course materials fee of \$25.00.

### **VISUAL ART 12 (Academic) 1 credit**

**Art 12 is a course for serious art students who have excelled in both the Visual Art 10 and 11 programs.** Advanced skills, an independent work ethic, and a passion for art are necessities for success in this course. Students will work on assigned projects, but will also develop a portfolio, which

may be used in application for an art college. Art theory, history, and critiques are a large component of the program. There is a course materials fee of \$25.00.

#### **\*DANCE 11 (Academic) 1 credit**

DANCE 11 is designed to give students a wide range of opportunities through dance and dance education. There will be opportunities for students to create, perform, critique, and research dance, as well as work with others in an environment that allows everyone to learn and improve, not only their dancing skills, but their confidence and self-esteem as well. This course is appropriate for those with or without dance experience.

*\*This course can be used to meet the Fine Art graduation requirement OR the Physical Education requirement, but not both.*

### **DRAMA COURSES**

#### **DRAMA 10 (Academic) 1 credit**

Drama 10 is an introductory level course in the Dramatic Arts. Its focus is on the personal growth of the student by building relationships, communicating ideas, group work, and experiential learning through a range of dramatic forms. The 4 components of Drama 10: Foundation, Movement, Speech and Theatre will be explored throughout the course.

#### **DRAMA 11 (Academic) 1 credit**

Drama 11 is an intermediate level course in the Dramatic Arts. Its focus is building on the foundation of personal growth, relationships, communication of ideas, group work and experiential learning established in Drama 10. This course will build on the 4 components of Drama 10: Foundation, Movement, Speech and Theatre, with a heavier emphasis on Theatre.

#### **DRAMA 12 (Academic) 1 credit**

Drama 12 continues the developmental work of Drama 10 and 11, but shifts its focus to theatrical productions with the essential difference being that pieces are produced for an audience. In the year of a school production, this class may become a production class where the students in the class will become members of the cast and crew while meeting the regular Drama 12 curriculum outcomes.

### **MUSIC COURSES**

#### **MUSIC 10 (Academic) 1 credit**

The Grade 10 level of music theory is designed to acquaint the student with the rudiments of notation, major scales, minor scales, intervals, sight-reading, basic composition skills, and ensemble participation. Students must be proficient enough to participate in Concert Band both semesters which is required.

#### **MUSIC 11 (Academic) 1 credit**

The Grade 11 level of music history is an extension of the Music 10. Enrolment in this program requires successful completion of Music 10. Students must be proficient enough to participate in Concert Band which is required as part of the course.

#### **MUSIC 12 (Academic) 1 credit**

The Grade 12 theory course is a continuation of the Music 11 levels and offers a further application of theoretical materials evolved in previous years, including sight reading, composition and orchestration as well as ear-training and ensemble participation. Students are required to participate in the Concert Band program.

## **FRENCH LANGUAGE COURSES**

### **FRENCH-CORE 10 (Academic) 1 credit**

In French-Core 10 students will continue to develop their understanding of the French language through listening and reading. They will also develop their abilities to express themselves both orally and in writing in the classroom. Grammatical aspects will be covered to help students communicate their thoughts more clearly and proficiently.

### **FRENCH-CORE 11 (Academic) 1 credit**

The goal of French-Core 11 is to help the student develop a communicative competence in the oral and the written language. Evaluation will be carried out on all four aspects of language learning: listening comprehension, oral capability, reading comprehension and written capability.

### **FRENCH-CORE 12 (Academic) 1 credit**

French-Core 12 has the same focus as French-Core 11, although students are expected to be able to respond spontaneously in conversation on a more advanced level. Students should be able to write compositions of a fairly complex nature. Evaluation will follow the same procedure as with French-Core 11.

### **DELFDALF Evaluation:**

The Nova Scotia Department of Education and Early Childhood Development has been accredited by the French Embassy as an examination centre for the DELFDALF international French second language evaluation. We offer these evaluations to students attending public schools in Nova Scotia. The purpose of this evaluation is to give students international recognition for their accomplishments in French second language learning. Students are evaluated on their oral and written expression and comprehension. <https://fsl.ednet.ns.ca/content/delf>

\*It is offered free of charge to students enrolled in Core French 12 . ***See Mrs. Corbett for more information.***

## MATHEMATICS COURSES - MATH PATHWAYS

### **IMPORTANT CHANGE TO GRADUATION REQUIREMENTS**

Students entering Grade 10 in 2017-18 will require **THREE** Mathematics credits (one at each grade level) for graduation.

<b>Math 10 Options</b>	<b>Math 11 Options</b>	<b>Math 12 Options</b>
Mathematics 10 *(Academic Level- 2 credits)	Extended Math 11 *(Academic level- 2 credits)	Mathematics 12 (Academic Level)
Mathematics at Work 10 (Graduation Level)	Mathematics 11 (Academic Level)	Pre-Calculus 12 (Advanced Level)
Math Essentials 10 (Graduation Level)	Pre-Calculus 11 (2 <sup>nd</sup> semester)(Advanced Level)	Calculus 12 (Advanced Level)
	Mathematics at Work 11 (Graduation Level)	Mathematics at Work 12 (Graduation Level)
	Math Essentials 11 (Graduation Level)	Mathematics Essentials 12 (Graduation level)

**\*The two (2) credits for Math 10 and Extended Math 11 count towards graduation requirements in the following ways: 1 of the required Math credits + 1 credit that meets the requirements for the additional Math/Science/Technology credit.**

### Math requirements for different career pathways

Use this table to help in your decisions. If you are ...	Grade 10	Grade 11	Grade 12
A student intending further study in science, math, engineering, computer programming or many medical fields that involve an intensive level of mathematics, <b>take</b> .....	Mathematics 10 (Academic level)	Mathematics 11 (Academic) Pre-Calculus 11 (Academic)	Pre-Calculus Mathematics 12 and Calculus 12
A student intending further study in areas that require a math base such as many business programs, kinesiology, many health fields (as required by many programs at universities and community colleges), and the Canadian Forces <b>take</b> .....	Mathematics 10 (Academic level)	Mathematics 11 (Academic level) Extended Math 11 (Academic level)	Mathematics 12 (Academic level)
A student intending further study not requiring Math preparatory courses or entering the job market, <b>AND</b> who has struggled with Math <b>take</b> ..... <b>*Note:</b> This Math meets admission requirements for most colleges unless a Math is required. This Math will not prevent students going into many university programs unless a specific Math is required. <b>Please check with Institutions.</b>	Mathematics at Work 10 (Graduation Level)	Mathematics at Work 11 (Graduation Level )	Mathematics at Work 12 (Graduation Level) (Optional)
A student intending to enter the job market, or further study not requiring the Math preparatory courses, <b>AND</b> who has had difficulty successfully completing Math courses in the past, <b>take</b> ..... <b>*Note:</b> This Math meets admission requirements for most colleges unless a Math is required.	Mathematics Essentials 11 (Graduation Level)	Mathematics Essentials 11 (Graduation Level)	Mathematics Essentials 12 (Graduation Credit)

## IMPORTANT CHANGE TO GRADUATION REQUIREMENTS

Students entering Grade 10 in 2017-18 will require **THREE Mathematics credits (one at each grade level)** for graduation.

### **MATHEMATICS 10 (Academic) (2 credits=1 required Math + 1 M/S/T)**

This course is a 220 hour two credit course. This means that students will have mathematics class everyday for their grade 10 year. Mathematics 10 is an academic high school mathematics course which is a prerequisite for all other academic and advanced mathematics courses. Students who select Mathematics 10 should have a solid understanding of mathematics from their junior high years. There are two typical pathways for students who successfully complete Mathematics 10. For those students intending to follow the academic pathway, Mathematics 10 will be followed by Mathematics 11 and then Mathematics 12. (Mathematics 11 and Mathematics 12 are designed to provide students with the mathematical understandings and critical thinking skills identified for postsecondary studies in programs that do not require the study of theoretical calculus). For those students intending to follow the advanced pathway, Mathematics 10 will be followed by Mathematics 11 and Pre-Calculus 11 in grade 11, and Pre-Calculus 12 and Calculus 12 (optional) in grade 12. 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. Prerequisite: Successful completion of Grade 9 Math and demonstrated good to excellent performance in relation to the Grade 9 outcomes and recommendation from the Math 9 Teacher. Provincial Exam: There is a mandatory provincial exam at the end of the year covering work from September - June worth 20%.

### **MATHEMATICS AT WORK 10 (Graduation) 1 credit**

This course is a 110 hour course. *Mathematics at Work 10* is an introductory high school mathematics course that demonstrates the application and importance of key math skills. The new *Mathematics at Work* courses are designed to provide students with the mathematical understandings and critical-thinking skills identified for entry into programs of study that do not require *academic* mathematics or for skills necessary for direct entry into the workforce. The typical pathway for students who successfully complete *Mathematics at Work 10* is *Mathematics at Work 11* followed by *Mathematics at Work 12*. Some students who complete *Mathematics at Work 10* may choose to take Mathematics Essentials 11 followed by Mathematics Essentials 12. *Students in Mathematics at Work 10 will explore the following topics:* measurement, area, Pythagorean Theorem, trigonometry, geometry, unit pricing and currency exchange, income and basic algebra. This course is not acceptable for credit for university programs that require math, thus students who are not sure if they wish to attend university, technical schools, etc. may wish to check with the counsellor or their intended school of post-secondary study for more information. **Prerequisite: Successful completion of Grade 9 Math and recommendation from the Math 9 teacher.**

### **MATH ESSENTIALS 10 (Graduation) 1 credit**

This course is a 110 hour course. Mathematics Essentials 10 is an introductory high school mathematics course designed for students who may consider entering post-secondary programs that do not have any mathematics prerequisites or who are not planning to pursue post-secondary study but going directly to work. Mathematics Essentials courses are designed to provide students with the development of the skills and understandings required in the workplace, as well as those required for everyday life at home and in the community. Students will become better equipped to deal with mathematics in the real world and will become more confident in their mathematical abilities. *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. **Prerequisite: Successful completion**

**of Mathematics Grade 8 and recommendation from the Grade 9 Math teacher. Math Essentials 10 satisfies one of the three mathematics credit requirements for graduation.**

### **MATHEMATICS 11 (Academic) 1 credit**

This course will be presented as a 110-hour course. Mathematics 11 is an academic high school mathematics course. Students who select Mathematics 11 should have a solid understanding of the Mathematics 10 curriculum. Mathematics 11 is a prerequisite for Pre-calculus 11. These courses are to be taken consecutively, not concurrently.

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

- For those students intending to follow the academic pathway, Mathematics 11 will be followed Mathematics 12. (Mathematics 11 and Mathematics 12 are designed to provide students with the mathematical understandings and critical-thinking skills identified for post-secondary studies in programs that require an academic OR a Pre-calculus mathematics credit).
- For those students intending to follow the advanced pathway, Mathematics 11 will be followed by Pre-calculus 11, Pre-calculus 12, and then Calculus 12 (optional.)

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.

**Prerequisite: Successful completion of Mathematics 10.**

### **EXTENDED MATHEMATICS 11 (Academic) 2 credits**

Extended Mathematics 11 is a 220-hour course that is scheduled over the duration of the school year, September to June. Students who successfully complete this course will receive one grade 11 academic mathematics credit and one grade 11 technology credit. Extended Mathematics 11 is an academic high school mathematics course. Students who select Extended Mathematics 11 will complete the curriculum outcomes for the semestered Mathematics 11 course and additional concepts in Statistics and Data Analytics. They will have extra time to explore concepts using a variety of learning experiences and use technology to enhance their learning.

- The typical pathway for students who successfully complete Extended Mathematics 11 will be to take Mathematics 12.
- Alternatively, students who successfully complete Extended Mathematics 11 may choose to select either Mathematics at Work 12 or Mathematics Essentials 12.
- While not the typical pathway, Extended Mathematics 11 can also be used as a prerequisite for Pre-calculus 11. These courses are to be taken consecutively, not concurrently.\*

Students in Extended Mathematics 11 will explore the following topics: linear programming, 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, inference making from statistical summaries, analyzing and presenting data and how to extract meaning from data.

**\*Note:** Students who complete Extended Mathematics 11 and then decide to take Pre-calculus 11 followed by Pre-calculus 12 should contact their school counselor for scheduling options.

**Prerequisite: Successful completion of Mathematics 10.**

### **PRE-CALCULUS 11 (Advanced) 1 credit**

This course will be presented as a 110-hour course. Pre-calculus 11 is an advanced high school mathematics course. Students who select Pre-calculus 11 should have a solid understanding of the Mathematics 11 curriculum. Pre-calculus 11 is a prerequisite for Pre-calculus 12. These courses are to be taken consecutively, not concurrently.

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.

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

**MATHEMATICS AT WORK 11 (Graduation) 1 credit**

This course will be presented as a 110-hour course. Mathematics at Work 11 demonstrates the application and importance of key mathematical skills. Students in Mathematics at Work 11 will explore the following topics: measurement systems, volume, 2-D and 3-D geometry, right triangle geometry, scale diagrams, statistical analysis (graphing), and financial mathematics. The typical pathway for students who successfully complete Mathematics at Work 11 is Mathematics at Work 12. Some students who successfully complete Mathematics at Work 11 may choose to take Mathematics Essentials 12. This course requires students to be comfortable with formula manipulation for various contexts.

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

**MATH ESSENTIALS 11 (Graduation) 1 credit**

This course will be presented as a 110-hour course. Mathematics Essentials 11 is designed for students who either do not intend to pursue post-secondary study or plan to enter post-secondary programs that do not have any mathematics prerequisites. The Mathematics Essentials pathway is designed to provide students with the development of the skills and understandings required in the workplace, as well as those required for everyday life at home and in the community. Students will become better equipped to deal with mathematics in their everyday life and will become more confident in their mathematical abilities. Students in Mathematics Essentials 11 will explore the following topics: mental mathematics; collecting, organizing and graphing data; borrowing money; renting or buying; household budgets; investing money, measuring; and 2D and 3D design, mathematics in content areas such as science and social studies.

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

**MATHEMATICS 12 (Academic) 1 credit**

The mathematics pathway is designed to provide students with the mathematical understandings and critical thinking skills identified for post-secondary studies in programs that do not require the study of theoretical calculus. Students who select Mathematics 12 should have a solid understanding of the Mathematics 11 curriculum. Students in Mathematics 12 will study the following topics: borrowing money; investing money; set theory; logical reasoning; counting methods; probability; polynomial functions; exponential and logarithmic functions, and sinusoidal functions.

**Prerequisite: Successful completion of Mathematics 11 or Pre-Calculus 11.**

**MATHEMATICS at Work 12 (Graduation) 1 credit**

The Mathematics at Work pathway is designed to provide students with the mathematical understandings and critical-thinking skills identified for direct entry into the workforce or for entry into programs of study that do not require academic mathematics. Students in Mathematics at Work 11 will study the following topics: measurement and probability; measures of central tendency; scatter plots; linear relationships; owning and operating a vehicle; properties of polygons; transformations; and trigonometry.

**Prerequisite: Successful completion of Mathematics 11 or Mathematics at Work 11.**

**MATHEMATICS ESSENTIALS 12 (Graduation) 1 credit**

This course extends student understanding of financial literacy as well as teaching skills that directly relate to math that is used in a workplace setting. The math is practical and “hands on”. This course will help students to understand the relationships between their high school studies and a range of post-secondary destinations.

**Prerequisite: Successful completion of Mathematics Essentials 11 or Mathematics at Work 11**

### **PRE-CALCULUS 12 (Advanced) 1 credit**

The Pre-calculus pathway is designed to provide students with the mathematical understandings and critical-thinking skills identified for post-secondary studies in programs that require the study of theoretical calculus. Students who select Pre-calculus 12 should have a solid understanding of the Pre-calculus 11 curriculum. Topics include: transformations, radical functions, polynomial functions, trigonometry, exponential and logarithmic functions, rational functions, function operations and permutations, combinations and the binomial theorem.

**Prerequisite: Successful completion of Pre-calculus 11.**

### **CALCULUS 12 (Advanced) 1 credit**

Calculus 12 is strongly recommended to any student who intends on taking Math, Physics, Chemistry, Biology, Engineering or related fields of study. This course is not intended to replace first year Calculus at university but to provide meaningful practice for those students who will be taking Calculus in a post-secondary institution.

## **PHYSICAL EDUCATION**

### **PHYSICAL EDUCATION 10 (Open) 1 credit**

This course will provide students with a variety of fitness and sport experiences to enhance their understanding of personal fitness and growth. Theory components, as well as the opportunity to participate in a variety of indoor and outdoor fitness, sport, and recreational experiences form this course.

### **\*DANCE 11 (Academic) 1 credit**

DANCE 11 is designed to give students a wide range of opportunities through dance and dance education. There will be opportunities for students to create, perform, critique, and research dance, as well as work with others in an environment that allows everyone to learn and improve, not only their dancing skills, but their confidence and self-esteem as well. This course is appropriate for those with or without dance experience.

*\*This course can be used to meet the Fine Art graduation requirement OR the Physical Education requirement, but not both.*

### **PHYSICALLY ACTIVE LIVING 11 (Open) 1 credit**

This course will promote and engage students in a wide range of physically active experiences, as well as a theory component with an overall theme of exploring options and opportunities for being active for life, both in school and in their community.

### **YOGA 11 (Academic) 1 credit**

Yoga 11 will introduce students to various forms, styles and characteristics of yoga. It is a hope that students will develop a lifelong personal practice of yoga for personal fitness, recreation and well-being. Students will participate in a variety of activities that will include physical practice, stress reduction techniques and classroom theory. The physical practice of yoga will include learning, developing, and practicing skills that involve strength, flexibility, endurance, balance, breath, regulation of energy, and mental focus, all of which can be applied to other physical activities. Students will study the history and philosophy of yoga including values of non-violence, ethics, honesty and respect, and about the relationship between nutrition and fitness. This course is a specialized variant of Physical Education 11 that is open to students from all grade levels. It meets the requirements for a physical education credit.

### **PHYSICAL EDUCATION LEADERSHIP (Academic) 1 credit**

Leadership 12 is designed for students who wish to expand their role as future leaders and who are not necessarily interested in traditional sports. The leadership skills developed in this course are transferable to all future job settings in business or sport. This course will examine, through experiential education, various styles and characteristics of effective leadership in today's society. The course assessment will contain both written and practical components. • Volunteer or coaching experience in community, sports, charities • Helping local elementary schools or community clubs. • Leadership seminars in team building, communication, experiential education, conflict resolution, and becoming a facilitator. • Journaling, researching, and creating usable resources. • Intramural organization, event organizing, teaching, team management and officiating.

## **SCIENCES**

### **SCIENCE 10 (Academic) 1 credit**

Science 10 is very highly recommended as a prerequisite for Chemistry 11 and Physics 11. It is a program that supplies the basis of understanding for future Biology, Physics and Chemistry courses. You will see that while scientists study a great diversity of things, most scientists approach a scientific problem in the same general way. You will come to appreciate that science and technology are strongly connected and that science is a part of almost everything you see and do.

### **AGRICULTURE 11 (Academic) 1 credit**

Agriculture 11 provides students with an introduction to the agriculture and agrifood industry. Students will explore aspects of both local and global agriculture, including animal science, the science of soil, nutrition and food preservation. Connections will be made between the land, climate, organisms and human practitioners of agriscience. Students will also look at the business and marketing of agricultural products. Learning experiences will include class discussions and lectures, internet-based activities and research, hands on projects and labs, guest speakers, and the possibility of a few local field trips. Students will engage in both individual and small group learning experiences as well as whole class learning activities. This course counts as the second of the two science credits required to fulfill Nova Scotia Graduation Requirements.

### **BIOLOGY 11 (Academic) 1 credit**

Biology 11 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 introduce new ideas, followed by classroom discussion to further develop concepts. Topics include: biological classification, cell biology, microscopy, and systems of living organisms including respiration, digestion, excretion and circulation.

### **HUMAN BIOLOGY 11 (Graduation) 1 credit**

This course is designed for those students not wishing to pursue a post-secondary academic career in the sciences. The course is developed to introduce students to the study of human biology especially in the areas of how the body is built and how it functions.

### **CHEMISTRY 11 (Academic) 1 credit**

Chemistry 11 is a direct continuation of the basic concepts presented in Science 10. In Chemistry 11, students will be required to draw from and build on their previous knowledge from Science 10 in order to advance and develop a stronger understanding of the basic theories and principles that guide the study of the chemical world in which we live. Units of Study will include:

• Structures & Properties : review of atomic structure and the periodic table, chemical reactions and the nature of bonding

- Stoichiometry: an introduction into the quantitative (mathematical) side of chemistry
- Organic Chemistry: a brief study of the molecular compounds of Carbon

This course has a hands-on approach which involves participation in lab activities that help support classroom lectures and activities. It is strongly recommended that any student considering Chemistry 11 have successfully completed Science 10 and Academic Math 10.

### **OCEANS 11 (Academic) 1 credit**

Oceanography 11 is a multidisciplinary course encompassing elements from 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.

### **PHYSICS 11 (Academic) 1 credit**

Physics 11 is designed to begin by expanding on some of the basic topics covered in the physics unit of Science 10. The course is broken into units of the following: Kinematics, Newton's Laws and Forces, Momentum, Energy and Power, and Waves. A major focus of the course is the collection and interpretation of collected data. Therefore, laboratory work will be an important aspect of this course. This course is also appropriate for anyone who is motivated in understanding the physical world in which we live. ***Students applying for this course should have strong math skills as there are many formula manipulations for various contexts. It is recommended that students taking Physics 11 should have successfully completed both Math 10 and Science 10.***

### **ADVANCED BIOLOGY 12 (Advanced) 1 credit**

This course is designed for students who have excelled in Biology 11 and are planning a career in Biology or a Biology related field. This course is very content oriented and students must be self-motivated to be successful. Topics are broad and as much material as possible will be presented. A research project or science fair project is a required component of this course.

### **ADVANCED CHEMISTRY 12 (Advanced) 1 credit**

This course is designed for students who have excelled in Chemistry 11 and are planning a career in Chemistry or a Chemistry related field. Advanced Chemistry 12 will cover the same four areas of study as the Academic Chemistry 12; however, each unit will be more content driven with a larger range of topics studied. It is essential that any student considering taking this course feel comfortable working independently and being self-motivated with the ability to critically analyze and solve scientific problems. This means that students taking this course must be academically prepared to move at a faster pace with a greater individual effort. This course has a mandatory research/experimental project.

### **BIOLOGY 12 (Academic) 1 credit**

Biology 12 covers a wide range of topics including human physiology of the nervous system, endocrine and reproductive systems, genetics, evolution, and relationships between cell respiration and photosynthesis. This university preparatory course is open to Grade 11 and 12 students with a recommendation that Biology 11 be previously completed.

### **CHEMISTRY 12 (Academic) 1 credit**

Chemistry 12 is a course designed for students who demonstrate a natural ability in the understanding and application of science principles. This course will provide students with a chance to develop an

understanding and appreciation of the chemical world in which they live and its influences on their everyday lives. Chemistry 12 focuses on four main areas of study including: Thermochemistry, Kinetics and Equilibrium, Acid/Base Chemistry, and Electrochemistry. Chemistry 12 has a hands-on approach which involves participation in lab activities that help support classroom lectures and activities. It is strongly recommended that any student considering Chemistry 12 have successfully completed Chemistry 11 and Academic Math 11 as a large component of this course is based on foundational material from Chemistry 11 and involves more advanced mathematical calculations.

### **GEOLOGY 12 (Academic) 1 credit**

The course will examine the earth as a complex system. A major portion of the course will be dedicated to mineral and rock identification. Other topics of interest will include Astronomy, Plate Tectonics, Volcanology, Extinctions, Fossils and Earthquakes. It is recommended that students have at least one high school science course before taking Geology 12.

### **PHYSICS 12 (Academic) 1 credit**

Physics 12 is designed to complete and enrich some of the basic topics covered in Physics 11. The course is broken into the following units: Kinematics and Dynamics, Equilibrium and Momentum, Circular Motion and Gravitation, Electrostatics and Electric Circuits, Electromagnetism, and Nuclear Physics. Laboratory work will be an important aspect of this course; however, it is also appropriate for anyone who is motivated in understanding the physical world in which we live. Physics 12 involves some advanced problem-solving. ***It is strongly recommended that a student has successfully completed Physics 11 and Pre-Calculus 11.***

## **SOCIAL STUDIES**

### **HISTORY 10 (Ancient History) (Academic) 1 credit**

History 10 has something to offer all students. The course surveys the vast sweep of human experience from earliest times to the 16th century. It is a story of firsts: the first tools; the first cities; the first alphabets and the first empires. In short, it is the greatest adventure of all, the story of humanity.

### **AFRICAN CANADIAN STUDIES 11 (Academic) 1 credit**

The African Canadian Studies 11 course focuses on the history of people of African descent in Canada and abroad. It is divided into six units: Unit 1: Evolution and Change; Unit 2: Pre-colonial African Societies; Unit 3: Triangular Slave Trade and the Movement of People of African Descent; Unit 4: Colonial Expansion; Unit 5: Pursuit of Political, Economic Justice and the Journey to Empowerment; and Unit 6: Local Community Study (Independent Study). This course is designed to equip students with a sound understanding of the global and local experiences, achievements and contributions of people of African descent. It focuses on the 31 experiences, struggles and life stories of people of African descent who have contributed to world history. Designed to be inclusive, African Canadian Studies 11 will appeal to learners of all ability levels and ethnic and racial backgrounds. **This course meets the graduation requirement for Canadian Studies.**

### **CANADIAN HISTORY 11 (Academic) 1 credit**

This course examines Canadian history from the first the peoples of Canada to the present. It will explore and research the lives, times, and culture of the First Nations as well as the “new” culture and lifetimes and expectations of the European immigrants (explorers) and their ancestors. The independent study component with an individual research project on any aspect of Canadian history is compulsory. **This course meets the graduation requirement for Canadian Studies.**

**HISTORY 11 (European History) (Academic) 1 credit**

History 11 is a survey course that examines the development of Europe from 1500 to Twentieth Century. The course surveys the major political, social, intellectual and economic changes and the wider influence of colonization.

**MI'KMAW STUDIES 11 (Academic) 1 credit**

Mi'kmaq Studies 11 is a course that serves not only to highlight the Mi'kmaq experience, but also to provide opportunities for learners to gain an understanding of how they are connected to the history and culture of the First Peoples of the Maritimes. Mi'kmaq Studies integrates the past, present, and future. The course incorporates an inquiry-based approach and examines broad concepts such as governance, culture, spirituality, education, and social justice. Students will also complete an independent project of their choice as one component of the course. Students will analyze historical and contemporary Mi'kmaq issues, which will enable them to achieve a greater understanding of, and respect for, both Mi'kmaq society and Mi'kmaq contributions to Canadian society. Through taking this course, students should become more informed active citizens with an understanding of the relationship among Aboriginal and non-Aboriginal people in Nova Scotia and Canada. **This course meets the graduation requirement for Canadian Studies.**

**GLOBAL GEOGRAPHY 12 (Academic) 1 credit**

Global Geography 12 is thematic in nature and aims to develop a global understanding and realization of the interdependence of all aspects of the world. A wide variety of evaluation opportunities will be used including seminars, class presentations, independent and group research, contract learning and graphic projects.

**GLOBAL HISTORY 12 (Academic) 1 credit**

Global History 12 examines modern world issues and current events. The course will explore the history behind what is happening in the world now and how it arrived at its current state. The course will look at the Cold War and the story of the Soviet Union/Russia, the United States, modern Europe as well as Africa, Asia and the Middle East while looking at themes such as economic development, justice, technology, and social change within these regions.

**GLOBAL POLITICAL SCIENCE (Academic) 1 credit**

Political Science is an introduction to the basic concepts of politics. An examination of the nature of politics will provide the student with a historical overview of the key contributors of political thought from Plato to the present, as well as the influence of religion and nationalism on the political culture of nations.

**LAW 12 (Academic) 1 credit**

Law 12 will examine the development and fundamentals of the Canadian legal system. Students will examine various legal and social issues throughout the course. Students will learn about their rights and freedoms, criminal law, tort law, family law, and contract law. They will also examine how laws are made and why they change.

**PSYCHOLOGY 12 (Academic) 1 credit**

Psychology 12 is an exploration of the physical and psychological components of human behaviors and the personality characteristics of individuals. Due to its foundations in the structures and functions of the human body, it is recommended that students taking this course have already successfully completed Biology 11 and/or Biology 12.

### **SOCIOLOGY 12 (Academic) 1 credit**

Sociology 12 is a study of people and social interaction. Students will examine human behavior, culture, social organization, and social control/deviance. Students will also examine social trends/issues and discuss/work with these throughout the course.

## **TRADES and TECHNOLOGY RELATED COURSES**

### **EXPLORING TECHNOLOGY and ROBOTICS 10 (Open) 1 credit**

Exploring Technology and Robotics is an excellent introduction to technological engineering and design concepts for all students. It provides students with hands-on activities and introduces them to a broad spectrum of technological concepts. They will also design and create devices and systems that solve technological problems and explain how technology affects today's society.

### **FOOD SERVICES and FOOD TECHNOLOGY 10 (Open) 0.5 +0.5 =1 credit**

Food Technology (1/2 credit), Preparation and Service (1/2 credit) is a full credit course. Students may study Food Safety Level 1 provincial certification course work with the possibility of passing a test for a 5 year certificate. Students work independently and in groups to gain knowledge and experience in public food service, kitchen management, current nutrition research and food marketing strategies. Students' practical hands on experiences will apply industry standards for food preparation using time management and math skills. **This course may be used as a Technology credit for graduation purposes.**

### **SKILLED TRADES 10 (Academic) 1 credit**

Skilled Trades 10 is a career exploration course suitable for all students in grade 10 or 11. The course provides students with a unique mixture of classroom and workplace activities. These activities enable students to learn about and directly experience what life in the skilled trades has to offer. Students work with the same set of hand tools used by professional trades people in the construction industry to complete real construction tasks and building projects. Because the Skilled Trades 10 curriculum offers very real trades work, it is delivered in the Skilled Trades Centre. Designed by experienced trades educators, the Skilled Trades Centre is a large work area that serves as a construction site, workshop, and instructional area. This innovative blend of instructional and construction space underscores the value of giving the skilled trades a prominent place in the high school curriculum inside the academic environment. Skilled Trades 10 requires an application and interview process. Skilled Trades 10 is required for all grade 11 trades courses.

Within the Skilled Trades Centre, students in Skilled Trades 10 focus on four topical areas:

- Safety
- Measurement and Calculation for Trades
- Skilled Trades Living
- Tools and Materials of the Skilled Trades

***Skilled Trades 10 is the first in a suite of courses that fully integrates a range of skilled trades into Nova Scotia's high schools.***

### **BUSINESS TECHNOLOGY 11 (Academic) 1 credit**

This course allows students to develop a basic proficiency in 'touch' keyboarding while integrating this skill with document processing. The course will also examine document design and apply principles and practices of desktop publishing to design and produce documents and the power of spreadsheets to manage data with low-level programming. Some math/logic skills are required.

### **CONSTRUCTION TRADES 11 (Academic) 1 credit**

Construction Trades 11 will continue to focus on the skills developed in Skilled Trades 10 and will define them in a construction environment. Trades that will be examined comprise carpenter, plumber,

electrician, painter-decorator, floor installer. 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. She or he will frame, wire, plumb and finish a section of the project. Emphasis will be placed on communications, job-site safety, and professional trade practices.

Construction Trades 11 comprises the building of a complete, full-scale four unit building. Each unit contains a room plus a full bathroom. The class is divided into four groups of four and each group is responsible for its unit. Students frame, rough-in, and finish the work of six different trades

### **ENERGY, POWER AND TRANSPORTATION 11 (Open) 1 credit**

This course examines the various sources of energy in the world and how to convert and control these resources to meet human needs. Students will be required to demonstrate an understanding of how energy was used historically, how it is used presently, and how it may be used in the future.

### **TRANSPORTATION TRADES 11 (Academic) 1 credit**

Transportation Trades 11 is designed so that students begin to understand service work in an automotive setting. Students disassemble and reassemble an engine paying attention to components and making calculations that unfold the internal combustion system. Student also perform maintenance, diagnostic and other tasks on a car.

### **FILM AND VIDEO PRODUCTION 12 (Academic) 1 credit**

FVP 12 is a technology credit. Students will work in groups to create a variety of videos for presentation to the class. They will be expected to think critically about their own films and give feedback to other students in the class. Students will learn and experience what it is like to work on a production team and work together to create a film.

### **MEDICAL TECHNOLOGY 12 (Academic) 1 credit**

The course is intended to provide students with the knowledge and skills necessary in an emergency to help sustain life, reduce pain, and minimize the consequences of injury or sudden illness until professional medical help arrives, for first aid care as well as skills needed to act as a "vital link" in the Emergency Medical Services system. (EMS) Certification is according to OSHA requirements.

### **MULTIMEDIA 12 (Academic) 1 credit**

Multimedia Art 12 provides students with the abilities required to understand how media affects their lives and how to create meaningful multimedia themselves. Students use digital images, animation, video, sound, and website design in a series of individual and collaborative projects. Students acquire an understanding of aesthetic/artistic implications of multimedia products, become aware of and respect ethical/social and legal implications of multimedia products, and apply the elements and principles of art and design to construct multimedia art. Multimedia 12 is an academic credit and may be counted as a technology credit or an arts credit for the AVRSB Art certificate but may not be used as the fine arts credit required to graduate.

### **PRODUCTION DESIGN TECHNOLOGY 12 (Open) 1 credit**

Production is the rendering of a product or service into useable form, giving added value. This involves the seven M's of production: management, material, manpower, machines, market, money, and methods. Students may be exposed to 1) materials science around wood, metal and plastics, 2) tools and processes for shaping and combining materials and 3) the use of computers in industrial technology (AutoCAD LT, CNC lathes, robotics, mills etc.)

