

Course Description Handbook

Richmond Academy

2020-2021

The information below is intended to give students and parents a better idea of course content as they make course selection decisions for the 2020-2021 school year.



Included in each description is a “Credit Type” designation. These designations indicate the following:

- Advanced:** *Courses designed to meet the needs of students who have demonstrated an exceptional degree of academic ability or achievement.*
- Academic:** *Courses designed for students who expect to enter college, university, or other post-secondary institutions.*
- 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.*
- Open:** *Although none of the open courses is designed to meet the specific entrance requirements of any post-secondary institution, individual courses may meet entrance requirements of some institutions.*

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 (one at each grade level)
- 2 Sciences (Science 10 credit and 1 other)
- 1 other credit from Technology, Math, or Science
- 1 Canadian Studies
- 1 Fine Art
- 1 Global Studies
- 1 Physical Education

**No more than 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.
- Exceptions to this include Pre-Calculus 12 and Calculus 12.

Post-Secondary Admission Requirements

Listed below are the typical ACADEMIC-level 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 or Calculus, 2 Sciences + 1 other academic course
- **Bachelor of Business Administration:** English, Mathematics + 3 other academic courses
- **Bachelor of Engineering:** English, Pre-Calculus or Calculus, Chemistry, Physics + 1 other academic course.
- **Bachelor of Computer Science:** English, Pre-Calculus + 3 other academic courses.
- **Bachelor of Nursing:** English, Math, Chemistry, Biology + 1 other academic course.

*** (Note: Calculus 12 is **required** for Business, Science, and Engineering in many universities outside of Atlantic Canada.)*

COMMUNITY COLLEGE ENTRANCE REQUIREMENTS

- Grade 12 diploma or equivalent
- Some programs have specific academic subject requirements, particularly in mathematics and science
- Check online or with guidance for specific programs

OPTIONS AND OPPORTUNITIES (O₂)

The Options and Opportunities Program (also known as O₂) is an exciting high school program which offers students more hands-on learning experiences with a career focus. It's designed to prepare students for successful transitions from high school to work, a career path, or a post-secondary program.

The program focuses on students who may not be fully engaged with their learning and with school, achievement of their academic potential, direction and support in developing career/life pathway, and are prepared to commit to a new approach to their learning. O₂ provides multiple opportunities for cooperative education, where students learn in community and workplace settings, link their in-school learning to the workplace, and enhance their employability skills.

A critical element in the success of O₂ is the participation of the Nova Scotia employers and communities who open their doors to students. Whether it's helping to shape curriculum, attending a career fair or hosting a student for a co-operative education work placement, O₂ gives employers and communities an opportunity to play an active role in the education of our youth and to help create the workforce of the future.

Students who are interested in the O₂ program must apply and interview for a spot in the cohort. Applications will be available in April, followed by interviews, then decisions in May. Please speak to administration or guidance staff if you have any questions about the O₂ program at RECA.

Please note: Students must begin the program in grade 10 and remain in it through their senior high school years (grade 10, 11, and 12). Successful completion of this program includes "Priority Status" at Nova Scotia Community College:

"O₂ applicants must meet the regular admission requirements and submit in-progress grade 12 transcripts and all other required documentation to NSCC Admissions by September 30 in order to receive priority status. Priority status is only available for the academic year directly following high school graduation and does not guarantee admission to the first program/campus choice. NSCC reserves the right to limit access to a program section." ~ NSCC 2017-2018 Calendar

*Because it requires a specific number of credits, students cannot join the O₂ program after grade 10, however they can take some course similar in nature to those in the O₂ program. Also, O₂ Students who transfer in from other are allowed into the RECA O₂ program.

ENGLISH LANGUAGE ARTS

*Students are **required** to take English in each of their three years of high school. Students in the English stream will take English 10 Plus (2 credits), while French Immersion students will take English 10 (credit) paired with Français 10 (1 credit). Students can then choose between Academic English and English Communications in grades 11 and 12.*

ENGLISH 10 AND ENGLISH 10 PLUS

Credit Type: Academic

English 10 provides a balanced and integrated program of language and literature, offering a variety of formal and informal speech activities, including paired and group discussions. The writing component of the course provides a wide variety of writing experiences in various modes for various audiences. Ideas for expressive writing are generated in part by examination of the mass media, which also enriches the study of literature. Reading and literary study are integrated with speaking, listening, thinking and writing activities. Students are introduced to the literary terminology and techniques which will help them to appreciate, evaluate and make critical judgments. Plays, novels, short stories, poetry and modern drama are the vehicles through which the goals of linguistic competence and literary appreciation will be achieved. Approaches are varied, including journal writing, sustained silent reading, group discussion and panel presentations, as well as individual assignments, presentations and projects.

A Provincial Exam will be written at the end of English 10.

ENGLISH 11

Credit Type: Academic

English 11 is an academic course which is intended as a university preparatory for students whose goals include post-secondary study. In this course, major literary texts are examined with an emphasis on critical and analytical response. Units of study comprise the main literary genres - i.e. the short story, novel, poetry, drama, and media texts. Students are expected to demonstrate competency in the more formal style of written and oral communication. It is important that students bring good work and study habits with them to the English 11 classroom and demonstrate that they are well on the way to becoming independent learners. To ensure that students have the necessary background skills to be successful in English 11, a recommended level of competency (65% or better) was demonstrated in English 10.

ENGLISH COMMUNICATIONS 11

Credit Type: Graduation

English Communications courses are intended to prepare students for lifelong learning by engaging them in practical and interesting learning experiences closely related to their lives and to the world they experience as adults. English/Communications courses are intended to provide experiences that enable students to develop socially and emotionally. Students will become aware of ways in which language can entertain, inform and influence others as well as, how to adapt their own language to suit their purposes. In striving to meet the literacy demands of our society, students will work on developing a sound basic knowledge of how to use English to the

best of their ability. Students will extend their thinking through the exploration of a range of issues. Students in this course are encouraged to incorporate computers into their daily language tasks: exploring, drafting, editing and publishing their ideas.

ENGLISH 12

Credit Type: Academic

English 12 builds on the processes and experience of English 10 and 11 and is intended for students whose goals include post-secondary education. While this course emphasizes challenging literary texts, students will be provided with opportunities to select their own material for independent study and small group inquiry. As students engage in the activities and assignments of this course, they will extend their knowledge base, thinking processes, learning strategies, self-awareness and insights. Writing is a major focus for English 12 and students will gain confidence in representing their ideas and demonstrating their learning in a variety of ways.

ENGLISH COMMUNICATIONS 12

Credit Type: Graduation

English Communications 12 builds upon the principals established in English Communications 11. With the continued emphasis being on preparing students for lifelong learning, student will engage in practical, interesting and relevant experiences. These experiences will help shape their confidence as learners and empower them to develop competency as communicators. Students in this course are

encouraged to incorporate computers into their daily language tasks: exploring, drafting, editing and publishing their ideas.

ADVANCED ENGLISH 11 – Online

Credit Type: Advanced

Advanced English 11 involves more in-depth treatment of topics, focuses more on independent learning, and provides extended research and other activities. Students in this course should have a love of literature and be self-motivated. They should be determined to write in a correct, articulate fashion.

Advanced English 11 is offered via Distance Education only.

ADVANCED ENGLISH 12 - Online

Credit Type: Advanced

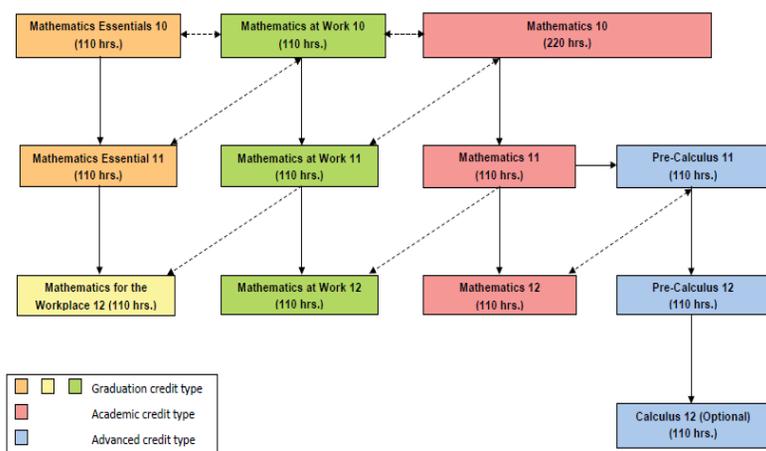
Advanced English 12 is an extension of Advanced English 11, and preparation for further post secondary study. Because of the academic rigor, it is strongly recommended that students have successfully completed Advanced English 11.

Advanced English 12 is characterized by additional content and curriculum outcomes that expand and extend learning in both theoretical and applied aspects of the subject area. Learning experiences in Advanced English 12 focus on in-depth treatment of selected topics, independent learning and reflection; extended research projects/case studies; and critical and cultural literacies. **Advanced English 12 is offered via Distance Education only.**

MATHEMATICS

Students now require three (3) math credits to graduate – one at each grade level. Which Mathematics Path to take depends on two things: (a) the student’s ability in mathematics and (b) the math prerequisites for specific post-secondary programs.

The Mathematics Path



***Note: Mathematics for the Workplace 12 is now Mathematics Essentials 12.**

MATHEMATICS 10

Credit Type: Academic

Courses in this pathway are designed to provide students with the mathematical understandings and critical-thinking skills identified for post-secondary studies in programs that require an academic mathematics credit and, should they choose the pathway that includes Pre-Calculus 11 and 12, also involve the study of theoretical calculus. Note this course requires two semesters of study and earns two credits. **A Provincial Exam will be written at the end of this course.**

MATH AT WORK 10

Credit Type: Graduation

These new courses are designed to provide students with the mathematical understandings and critical-thinking skills identified for direct entry into the work force or for entry into programs of study that do not require *academic* mathematics. This is a one semester course. **A Provincial Exam will be written at the end of this course.**

MATH ESSENTIALS 10

Credit Type: Graduation

The course is designed for students who do not intend to attend university or who plan to enter programs which do not have any mathematics prerequisite. The program is intended for the student who has a history of difficulty in mathematics as the content will focus on skills in mathematics for everyday life and for the workplace. This is a one semester course.

MATHEMATICS 11

Credit Type: Academic

This course is required for all grade 11 students who intend to keep all options opened for university. Many students will select just Mathematics 11 and then take Mathematics 12 in their final year of high school. For students who wish to pursue science programs and the like in university, they must take the Pre-Calculus 11 course listed below following Mathematics 11. In this course, students will be expected to demonstrate an understanding of a mathematical topic through independent research, and they must communicate their findings to their peer group.

PRE-CALCULUS 11

Credit Type: Advanced

The course follows the completion of Mathematics 11 and is a complement to it. The two courses cover a variety of topics and comprehension of them is essential before attempting Pre-Calculus 12 in their final year of high school. The advanced courses are designed for those who will take a math or science program in university, along with some business programs in certain universities. This course is taken in the second semester of grade 11.

MATH AT WORK 11

Credit Type: Graduation

Students who took Math at Work 10 during the 2013-2014 school year should enroll in this course in their grade 11 year. This stream of math courses are designed to provide students

with the mathematical understandings and critical-thinking skills identified for direct entry into the work force or for entry into programs of study that do not require *academic* mathematics.

MATH ESSENTIALS 11

Credit Type: Graduation

This course is a continuation of Math Essentials 10. It is designed for students who plan to enter programs which do not have a mathematics prerequisite.

PRE-CALCULUS 12

Credit Type: Advanced

Pre-calculus 11 must be taken after Mathematics 11, and successfully completed prior to starting Pre-calculus 12. Therefore, these courses are to be taken consecutively, and the order may not be reversed.

The Pre-calculus pathway is designed to provide students with the mathematical understandings and critical-thinking skills identified for post-secondary studies in programs that require .

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

Students in Pre-calculus 12 will study the following topics: tns; polynomial functions; trigonometry; exponential and logarithmic functions; rational functions; function operations; permutations, combinations and the binomial theorem.

MATHEMATICS 12

Credit Type: Academic

The prerequisite Mathematics 11 must be taken and successfully completed prior to starting Mathematics 12. Therefore, these courses are to be taken consecutively, not concurrently, and the order may not be reversed.

The Mathematics pathway is designed to provide students with the mathematical understandings and critical-thinking skills identified for post-secondary studies in programs that do not require the study of theoretical calculus. Mathematics 12 is the third course in this pathway. **Students who select Mathematics 12 should have a solid understanding of the Mathematics 11 curriculum.**

Students in Mathematics 12 will study the following topics: borrowing money; investing money; set theory; logical reasoning; counting methods; probability; polynomial functions; exponential and logarithmic functions; sinusoidal functions.

MATHEMATICS AT WORK 12

Credit Type: Graduation

The prerequisite Mathematics at Work 11 must be taken and successfully completed prior to starting Mathematics at Work 12. Therefore, these courses are to be taken consecutively, not concurrently, and the order may not be reversed.

The Mathematics at Work pathway is designed to provide students with the mathematical understandings and critical-thinking skills identified for direct entry into the work force or for entry into programs of study that do not require academic mathematics. **Mathematics at Work 12 is the third course in this pathway.**

Students in Mathematics at Work 12 will study the following topics: measurement and probability; measures of central tendency; scatterplots; linear relationships; owning and operating a vehicle; properties of polygons; transformations; trigonometry.

MATHEMATICS ESSENTIALS 12

Credit Type: Graduation

The prerequisite Mathematics Essentials 11 must be taken and successfully completed prior to starting Mathematics Essentials 12. Therefore, these courses are to be taken consecutively, not concurrently, and the order may not be reversed.

The Mathematics Essentials pathway is designed to provide students with the development of the skills and understandings required in the workplace, as well as those required for everyday life at home and in the community. **Students will become better equipped to deal with mathematics in their everyday life and will become more confident in their mathematical abilities.**

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

Students in Mathematics Essential 12 will do the following modules.

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

Students require two (2) science credits to graduate. Many students take additional science courses to meet the pre-requisites for various post-secondary programs. It is expected that all students will complete Science 10 and at least one other science course.

SCIENCE 10

Credit Type: Academic

This program is designed to foster an appreciation of the power of scientific explanation as a way of understanding the world. There are four 4 main units of study: ecosystems, chemistry, physics, and weather patterns. This course also includes three primary points of emphasis; a science inquiry emphasis, a technological problem-solving emphasis, and a societal decision-making emphasis. The material is approached as an intellectual pursuit and an activity-based strategy. Upon successful completion, students will be able to make more informed decisions as to whether they might wish to pursue chemistry, physics, or biology in terms of additional coursework or as a career.

SCIENCES 10 - French Immersion

Credit Type: Academic

This course is the French equivalent of Science 10. It is the course selected by French Immersion students to meet the requirements of the Immersion program.

BIOLOGY 11

Credit Type: Academic

This course emphasizes themes of change, diversity, energy, equilibrium, matter, and systems. The following core topics are covered: (1) cell theory – cell structure and function; (2) diversity among living organisms – classification of living organisms; (3) human systems and homeostasis – digestive, respiratory, circulatory, and immune; and (4) ecosystems dynamics.

BIOLOGY 12

Credit Type: Academic

Biology 12 consists of the following core topics: (1) human nervous system and endocrine system; (2) human reproduction and development; (3) Cell division, genetics, DNA, genes, and chromosomes; and (4) evolution and population genetics.

BIOLOGIE 11 & 12 - French Immersion

Credit Type: Academic

These courses are the French equivalent of Biology 11 and Biology 12. They are courses selected by French Immersion students to meet the requirements of the Immersion program, when available. **Biologie 12 is offered via Distance Education only.**

CHEMISTRY 11

Credit Type: Academic

Chemistry 11 studies the composition, process, properties and structures of matter. Students develop an understanding through problem solving and analysis. The four units of study include: (1) matter and its changes - review of nomenclature, formula writing, balancing equations and reaction prediction; (2) stoichiometry - introduces the problem-solving aspect of chemistry by investigating the mathematical relationships used to make predictions related to chemical reactions. Note: strong math skills are important in this unit; (3) structures and properties - investigates the nature of chemical bonds and their effect on chemical properties; and (4) organic chemistry - the classification of organic compounds, nomenclature, bonding, how they react, as well their environmental effects. Math 10 Academic and Science 10 are recommended prerequisites for this course.

CHEMISTRY 12

Credit Type: Academic

Chemistry 12 provides a more in-depth exploration of various topics intended for students pursuing post-secondary Chemistry. Chemistry 12 consists of four units of study: (1) solutions and equilibrium; (2) thermo chemical changes; (3) acids and bases in chemical changes; and (4) electrochemical changes.

CHIMIE 11 & 12 - French Immersion

Credit Type: Academic

These courses are the French equivalent of Chemistry 11 and Chemistry 12. They are courses selected by French Immersion students to meet the requirements of the Immersion program, when available. **Chimie 12 is offered via Distance Education only.**

FOOD SCIENCE 12

Credit Type: Academic

Food Science 12 consists of four units of study: (1) food constituents; (2) preservation factors; (3) food quality and commodities; and (4) food packaging. This program has a lab component and you must produce a new food product, packaging, marketing, and presentation for evaluation.

GEOLOGY 12 – Online

Credit Type: Academic

Geology 12 is designed to engage and meet the needs of a wide range of learners. It is comprised of six units: the nature of geology (e.g., geologists, earth systems); earth materials (e.g., crystallography, mineralogy); internal processes (e.g., earth's interior, plate tectonics); surface processes (e.g., weathering, erosion); historical geology (e.g., the fossil record, geological time); and environmental geology (e.g., geological hazards, waste management). **Geology 12 is offered via Distance Education only.**

OCEANS 11

Credit Type: Academic

This course offers students the opportunity to explore aspects of global and local oceanography and current ocean-related issues. Students will complete modules consisting of the following topics: motion, marine life, resources, world influence, fisheries, and coastal regions.

Océans 11 – French Immersion – Online

Credit Type: Academic

This course is the French equivalent of Oceans 11. It is a course that can be selected by French Immersion students to meet the requirements of the Immersion program, when available.

Océans 11 is offered via Distance Education only.

PHYSICS 11

Credit Type: Academic

Physics is the study of the relationship between matter and energy. These relationships are often represented mathematically; therefore, Physics can assist in improving a student's Math skills. Physics 11 consists of four units of study: (1) Kinematics – the study of how objects move; (2) Dynamics – the study of the factors that cause changes in motion; (3) Momentum and Energy – the study of the energy and momentum changes which occur when two or more objects interact; and (4) Waves – where students are expected to use

diagrams and geometry to explain and describe wave phenomena with extensions to algebraic models.

PHYSICS 12 – Online Only

Credit Type: Academic

Physics 12 consists of the following units of study: (1) Force, Motion, Work and Energy – this unit is an extension of Physics 11 topics; (2) Fields – the study of forces that exert influence through space without contact; (3) Waves and Motion Physics – the study of electro-magnetic phenomena and light; and Radioactivity – the study of natural and artificial sources of radiation. Students will be asked to work independently and collaboratively in planning and carrying out investigations (labs, computer simulations and/or research/building projects), solving problems, as well as generating and evaluating ideas.

Physics 12 is offered via Distance Education only.

TECHNOLOGY

In addition to the two (2) math and two (2) science credits required for graduation, students are also required to take two additional credits from any of the MATH or SCIENCE courses above or from the TECHNOLOGY courses listed below.

SKILLED TRADES 10

Credit Type: Open

Skilled Trades 10 provides a unique opportunity for students to investigate careers in the skilled trades. Students will learn about the tremendous impact that the skilled trades have on society, discover the tangible and the intangible benefits of a skilled trade lifestyle, and experience the wonderful rewards that come from working with both their hands and their minds. From the very first class in Skilled Trades 10, students will be taught to use the same tools that professional tradespeople use in their work. Through practical exercises and a real construction project, students directly experience why physical capabilities, such as manual dexterity and hand-eye coordination, are essential to success in the skilled trades. Areas of learning in this course include: skilled trades living; safety; measurement and calculations for the skilled trades; and tools and materials of the skilled trades.

Besides using tools, students in Skilled Trades 10 will be introduced to the day-to-day realities of skilled trades work and the essential skills that must be mastered.

They will develop the ability to achieve such tasks as:

- working safely
- reading blue prints

- using documents
- making precise measurements and calculations
- estimating materials
- handling materials requirements
- communicating effectively
- working as part of a team

CONSTRUCTION TRADES 11 – NEW!!!

Credit Type: Open

Construction Trades 11 (must have Skilled Trades 10 first) builds on the material taught in ST10 where students will explore six different facets of trades: carpentry, plumbing, construction electrical work, lathing, painting and decorating and floor covering installation, and the roles and responsibilities of each job. The course curriculum is centered on a process that allots time for classroom instruction and applying what is learned, and time for students to present that knowledge. This allows students to develop the necessary hands-on, oral and written skills to join a construction trades workplace.

MANUFACTURING TRADES 11

Credit Type: Open

Manufacturing Trades 11 (must have Skilled Trades 10) Students will investigate careers available in the manufacturing trades while working with the tools and processes of the manufacturing trades to learn skills required to work in the manufacturing industry. Following the apprenticeship model, students in Manufacturing Trades 11 will spend approximately 20% of their time learning the theoretical, regulatory, and conceptual

aspects of the manufacturing trades. Specifically, students will complete manufacturing-related trades skill-building projects. Students will be expected to develop physical skills, manipulate tools, and interpret project drawings. Outcomes include:

- investigating current and evolving careers, including pathways for diverse groups of people;
- develop employability skills necessary for manufacturing trades related careers (e.g., welding/fabricating, pipe fitting, sheet metal), through exploration of personal interests and strengths;
- demonstrate competency in workplace health and safety practices and procedures related to manufacturing trades;
- interpret manufacturing trades' related documents and drawings;
- apply various manufacturing trades related systems of measurements to perform calculations;
- demonstrate essential steps for the safe use of tools and equipment for manufacturing trades; and
- apply manufacturing trades processes and safety requirements in building products.

CONSTRUCTION TECHNOLOGY 10

Credit Type: Open

This Options & Opportunities (O2) cohort course is designed to provide students with an overview of the construction industry with emphasis on light construction systems. Course content includes units on the Imperial measurement system, construction preplanning, methods of ownership, machine operation and safety, design and drafting, rafter math, non-structural systems, project estimating and codes, easement and restrictions. In

addition to these systems, alternative construction systems and future construction systems will be studied. There is a math component in each unit of study. **Due to space restrictions, this course is currently only offered as an option to O2 students.**

PRODUCTION TECHNOLOGY 11 &12

Credit Type: Open

PT11 is an introductory course intended to provide students with a chance to work with their hands to produce useful projects. Students will learn and practice the basics of design and problem solving by manufacturing products using the principles of mass production. PT12 is intended to provide students with a further opportunity to study in the field of production technology. Students will examine traditional and modern manufacturing techniques. Content includes product development and design, the development of business plans and marketing strategies. **Students taking these courses must have a mature respect for working with machines and be willing to undertake the challenges that come with good design and quality workmanship.**

EXPLORING TECHNOLOGY 10

Credit Type: Open

This technology course provides students with hands-on activities and introduces them to a broad spectrum of technological concepts. By the end of the course, successful students are able to use a range of technical applications, integrate technology with other academic disciplines, create devices and systems to satisfy

their needs, explain how technology affects society, and use technology in problem-solving situations.

FOOD TECH/FOOD PREP SERVICE 10

Credit Type: Open

Food Technology 10 is a course in which students explore food technology for the home and industry. This course takes students from a historical perspective to understanding current technology and future developments in food preparation, food preservation, and consumer practices. Each unit has a theory and practical component. Students sample foods prepared using various technologies and examine issues such as genetic modification, organic food production, and the impact of kitchen and industrial food technology on families and the environment. **Food Preparation 10** has students explore food preparation and presentation and develop skills which may be transferred to food service skills in the workplace. Students are provided with practical experiences in food preparation and service. They look at the impact of technology on the preparation of food in the home and the workplace.

BUSINESS TECHNOLOGY 11

Credit Type: Academic

In this course students develop a basic proficiency in touch keyboarding, integrating these skills with skills in document processing and design, creating spread sheets to manage data, applying the principles and practices of desktop publishing to design and produce documents, and becoming confident and purposeful users of productivity software.

COMMUNICATION TECHNOLOGY 11 & 12

Credit Type: Academic

Communication Technology 11 & 12 provide opportunities for students to become involved in a wider range of communications technology applications, including electronic communication and graphic reproduction. This is a project-based course; some examples include power-point presentations, Microsoft Publisher assignments, creating a website, and photo projects. Communication Technology 12 is an extension of this and relies heavily on project work.

DESIGN 11

Credit Type: Academic

Everything that we use in our daily lives has been designed by someone or some group. Students will learn about design, designers, and design employment fields during the semester. Students will become a designer by creating computer projects and hands on projects. Students will be required to: use a course learning process model (how you are expected to learn and work in class); have a working understanding of Microsoft Suite; be involved in course discussions and presentations of work; and maintain a portfolio of their work. Lastly, students will be involved in a type of learning that requires them to be active learners who are meeting the class expectations and requirements.

ENERGY, POWER & TRANSPORTATION 11

Credit Type: Open

A course that presents the student with the opportunity to research, design, and construct projects that can harness and

manipulate all form of energy. The course will provide opportunities in the areas of alternate energy sources, green energy sources as well as the evolution of traditional energy sources.

COMPUTER PROGRAMING 12 – Online

Credit Type: Academic

This is a programming course using the industry standard language of C++, preparing students for post-secondary courses in programming. The course covers most of the topics that the student will face in a 1st year programming course at college or university. If the student is thinking of taking post-secondary programs like engineering, business, science, geography and computer science, this course will provide excellent preparation. The course provides students with the essential knowledge and basic programming/trouble shooting skills that are required to get a good start at the post-secondary level. The students will spend most of their time on the computer, coding programs in C++. The students' time will be divided equally between developing programs that solve math type problems and designing simple text-based games. **Computer Programing 12 is offered via Distance Education only.**

FILM & VIDEO PRODUCTION 12 - ONLINE

Credit Type: Academic

Film & 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 of roles, develop a critical awareness of

historical and cultural aspects of film; and, work through the process of producing a film of video from script development to final edit. Modules for this course include fundamentals, production team skill, film industry disciplines and careers; and film development and production. **Film and Video Production 12 is offered via Distance Education only.**

HOUSING AND DESIGN 12

Credit Type: Open

This program is made up of the theory and hands-on concepts of housing. Modules include: housing economy, architectural design and layout, interior design (interior aesthetics, personal expression, principles and elements of design); and an independent study.

MULTIMEDIA 12

Credit Type: Academic

Multimedia 12 provides learning opportunities through which students become skilled, critical creators and consumers of multimedia. Students will be expected to learn the basics of multimedia design starting with traditional methods as well as advanced methods which include the use of computer-based programs. Students acquire an understanding of aesthetic/artistic implications of multimedia products and apply the elements and principles of art and design to construct multimedia products.

GLOBAL STUDIES

*Students must complete Global Geography to graduate.
Students may only take this course during their grade 12 year.*

GLOBAL GEOGRAPHY 12

Credit Type: Academic

In this course you will come to grips with some of the most important threats and issues faced by our planet; and, you will see how geographers propose to analyze them and offer solutions to deal with them. Students will examine such topics as the physical world and humankind, natural hazards and disasters, the study of populations, global resources, the global economy, urbanization, The United Nations, and the future planet. Thus, through examination and understanding of these global topics, the students should be able to answer the following question: “How can studying global geography help us to resolve some of the crises Earth is facing today?”

GÉOGRAPHIE PLANÉTAIRE 12 – Immersion

Credit Type: Academic

This is the French equivalent of Global Geography 12. Students in the French immersion program take this course to meet the requirements of the Immersion Certificate.

CANADIAN STUDIES

Students must complete one (1) of the following courses to fulfill the Canadian Studies requirement for graduation:

MI'KMAW STUDIES 11

Credit Type: Academic

The Mi'kmaq Studies 11 course provides students with an understanding of historical and contemporary issues in Mi'kmaq society. The course will consider the cultural, social, spiritual and political events, trends and traditions in the history of the Mi'kmaq people. The course uses an issue-based approach and considers broad concepts such as justice, self-determination, political autonomy, education and schooling, the family, social and political organizations, active rights, spiritual principles and personal/group identity.

CANADIAN HISTORY 11

Credit Type: Academic

Canadian History 11 will examine the evolution of the Canadian national identity. Students will learn about the emergence of modern Canada as shaped by Aboriginal peoples, as well as French, English and other immigrants. This course will enable students to evaluate major social, economic and political changes and developments in Canadian history. Through an examination and understanding of Canada's cultural roots, students will be challenged to define what it means to be Canadian at the dawn of the 21st century.

AFRICAN CANADIAN STUDIES 11 – Online

Credit Type: Academic

African Canadian Studies 11 focuses on African heritage and encourages the use of diverse resources from all cultures and races. It involves a variety of historical processes. The course can follow this historical timeline: Pre-colonial Africa, Slavery and Resistance, Elements of the African Diaspora, the Impact of Colonial Expansion, the Struggle for Identity, the Pursuit of Justice and the Journey toward Empowerment, with a consideration of contemporary issues which connect the present to the past. The challenges facing African Canadians and African Nova Scotians today will also be examined. **African Canadian Studies 11 is offered via Distance Education only.**

HISTOIRE DU CANADA 11 – French Immersion

Credit Type: Academic

This is the French equivalent to Canadian History 11. Students in the French immersion program take this course to meet the requirements of the Immersion Certificate.

FINE ARTS

Students are required to complete one (1) of the following grade 10 level courses in order to graduate.

VISUAL ARTS 10

Credit Type: Academic

Art 10 is a first year Visual Arts course. The first 4 weeks of the program is devoted to developing the five perceptual skills of drawing. Attention is directed towards the development of students' visual thinking skills and learning the verbal language that will allow them to better understand the expressions of others. Concentration is on acquiring knowledge of the elements of art and principles of design, and how they are used to create works of art using a variety of media. **Positive attitude and cooperation in class (including cleanup) is essential.**

MUSIC 10

Credit Type: Academic

Music 10 is an "introduction to music" class, combining history, listening, playing, and theory. Students will study the history of a period of music and work on theory according to their level and knowledge. Playing involves students playing either band instruments or personal instruments in a group setting. Vocal music is also chosen for playing repertoire. There is no exam in this course; evaluation comes from projects, tests, and participation. **Positive attitude and willingness to work in groups are essential.**

ARTS VISUELS 10 – French Immersion

Credit Type: Academic

This is the French equivalent of Visual Arts 10. Students in the French immersion program take this course to meet the requirements of the Immersion Certificate.

Positive attitude and participation within the class (including clean up) are essential.

FRENCH IMMERSION PROGRAM

Students wishing to complete the French Immersion Certificate must complete nine (9) credits during their three years of high school. They must successfully complete two at each grade level, and three of the nine must be Français 10, 11, and 12. Four of the nine courses required for this certificate were described above: Arts Visuels 10, Sciences 10, Histoire du Canada 11, and Géographie Planétaire 12. Students must take two additional French Immersion courses to secure the French Immersion Certificate. This will vary from year to year, but students should expect to select from Biologie 11, Chimie 11, Océans11 (online) or Introduction à la Littérature 12 (online).

The premise of the French Immersion program is that student's converse in the French language. It is essential in developing and improving their language skills. It is therefore necessary that all students communicate in French during class time. Conversing in English undermines the program and will not be permitted.

FRANÇAIS-IMMERSION 10

Credit Type: Academic

Students are engaged in listening and speaking experiences that require them to communicate information and respond both orally and in writing to a variety of texts, such as conversations, interviews, articles, poems, short stories and novels.

FRANÇAIS-IMMERSION 11

Credit Type: Academic

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 improvisation and drama. Reading and literature includes articles, biographies, poems, mythology, short stories and novels. Writing activities include letters, tales, short stories, reports and research papers. The course also explores other forms of viewing and writing.

FRANÇAIS-IMMERSION 12

Credit Type: Academic

Students continue to develop their listening and oral skills in French while engaged in a wide variety of activities. Reading and literature includes many forms and genres, including 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.

PHYSICAL EDUCATION

Students are required to complete one (1) Physical Education Credit to graduate.

PHYSICAL EDUCATION 11

Credit Type: Open

This course offers a balance between lifetime and team sports whether indoors, outdoors or within community facilities. Personal fitness will be stressed with emphasis placed on cardiovascular endurance as well as other health-related aspects of fitness. A theory component directly related to activities will be included. Students in all physical education courses are expected to participate daily, and students should be aware that some of the activities in this course will take place outdoors (e.g., outdoor broomball, 5K walks, etc).

YOGA 11

Credit Type: Open

Yoga 11 will introduce students to the tradition of yoga and provide students with the opportunity to develop a personal practice to maintain vibrant health, enhance healthful relationships with self and others, and understand that yoga can be enjoyed as a regular form of physical and leisure activity throughout the lifespan. Students will participate in various learning experiences: physical practice, personal reflection, 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. Classroom sessions will address topics such as: meditation, the essentials of good nutrition, ethical yogic principles, such as kindness and generosity, as well as discussion on becoming positive contributing members of society. **This course will satisfy the physical education provincial graduation requirement.**

FITNESS LEADERSHIP 11 – Online

Credit Type: Academic

This course is designed to give students a global perspective of the culture of fitness. Classes will range from performing various workouts to the study of the human body and how it moves, grows is fuelled and is healed. You will learn how to create and lead short warm ups to developing full fitness programs. Students of various fitness levels will be challenged. The course is based on the Nova Scotia Fitness Association (NSFA) Youth Leadership Program. **Fitness Leadership 11 is offered via Distance Education only.**

PHYSICAL EDUCATION 12

Credit Type: Open

This course is a continuation of the Physical Education 11 credit described above. Students in all physical education courses are expected to participate daily, and students should be aware that some of the activities in this course will take place outdoors (e.g., outdoor broomball, 5K walks, etc.).

ELECTIVES

There are only thirteen (13) required courses for graduation. Students can choose from the elective courses below or any of the other courses above to fill out their schedules. Students should select courses that reflect their interest, ability, and/or those which will be required for admission to post-secondary programs.

ACCOUNTING 11

Credit Type: Academic

This is an introductory accounting course dealing with the accounting cycle. Emphasis is placed on an understanding of accounting principles, concepts and problem solving. This course would be beneficial to students planning to advance their studies in business.

ACCOUNTING 12 – Online

Credit Type: Academic

Accounting 12 is an advanced level accounting course with a brief review of Accounting 11 topics. Other topics to be examined include the accounting cycle, analysis of various types of companies. Accounting 11 is highly recommended before taking this course. This course would be beneficial to students planning to advance their studies in business. **Accounting 12 is offered via Distance Education only.**

ARTS ENTREPRENEURSHIP 12 – Online

Credit Type: Academic

This course is designed to help students consider the ways they might apply the knowledge, skills, talents, and interests fostered by

their learning in arts courses. To extend this learning, the Arts Entrepreneurship curriculum provides opportunities for students to deepen their understanding of the role of arts in their community and the economy. By exploring the arts and cultural community in Atlantic Canada, students are able to identify the opportunities that are offered by current trends in the cultural industries, which are businesses involved in creating cultural products that express ideas or values, provide entertainment, or have a functional or decorative use. Art Entrepreneurship 12 presents a unique opportunity to take learning beyond the classroom to include the community and workplace, while providing entrepreneurial experience in the cultural industries. **Arts Entrepreneurship 12 is offered via Distance Education only.**

BUSINESS MANAGEMENT 12

Credit Type: Academic

Business Management 12 examines the Canadian and international economic and business environments in which companies operate. It explores the structure of various business formats. The course aims to develop the analytical, problem solving, and communication skills of students through an understanding of how companies function and are managed from both an employer and employee perspective.

CANADIAN FAMILIES 12

Credit Type: Open

This course will explore the past and the present trends of our society and relate their impact on the lives of Canadian families looking at family formation, the family life cycle, children and fertility, the division of labour in the family, the social and economic characteristics of a family, and the aging family and its impact on our society.

CAREER DEVELOPMENT 11

Credit Type: Open (1/2 credit) – paired with WHS 11

Designed to help students understand and manage themselves, to manage their personal lives and resources, and to develop the ability to organize and shape their careers. Students develop their abilities to communicate, think, and deal with their feelings. They explore realistic goals, assess their own abilities, and realize how these actions affect their learning and decision-making processes. They develop awareness of their place in the community and the value to their personal growth of giving service to the community.

This course is typically paired with Workplace Health & Safety 11, also a half-credit course.

CHILD STUDIES 11

Credit Type: Open

Child Studies is a course designed to help students explore the meaning and implications of responsible parenthood, acquire current information regarding reproduction, pregnancy and childbirth, explore significant issues of early childhood, and apply the understanding of child development to the care and guidance of children. In this program students will have the opportunity to take a simulated baby home for a weekend to discover what is really involved in caring for an infant.

CO-OPERATIVE EDUCATION 11 and/or 12

Credit Type: Open or Academic

Co-op is offered to students at the grade 11 and 12 level. It consists of a 25 hour in-school component and 100 hours community work place component. Attaining 200 work placement hours will give a student BOTH credits.

CORE FRENCH 10

Credit Type: Academic

This course will continue to develop the regular program of French skills begun at the junior level. Emphasis on listening, speaking, reading and writing skills will continue so as to give students a complete background knowledge of standard French as it is used in Canada and abroad. Selections will be taken from Voyages I and other suitable supplementary programs.

ENTREPRENEURSHIP 12 – Online

Credit Type: Academic

The essence of entrepreneurship education is learning through taking action – learning by doing. Entrepreneurship education enables students to develop the personal qualities and attitudes required to run a successful business. Entrepreneurship education allows students to move along a continuum from aspiration to business start-up to expansion; focuses on adaptive skills that allow entrepreneurs to adjust successfully to new situation; provides specific knowledge to ensure informed decision making; and emphasizes an experiential, learning-by-doing approach.

Entrepreneurship 12 is offered via Distance Education only.

GLOBAL POLITICS – Online

Credit Type: Academic

This course examines Canadian and world politics from a variety of perspectives. Students will investigate the ways in which individuals, groups, and states work to influence domestic and world events; the role of political ideologies in national and international politics; and the dynamics of international co-operation and conflict resolution. Students will apply critical thinking and communication skills to

develop and support informed opinions about current political conflicts, events, and issues. **Global Politics 12 is offered via Distance Education only.**

HEALTH AND HUMAN SERVICES 12

Credit type: Academic or Open

Students will gain skills and knowledge in human development, ethics, helping process, interpersonal and personal development, wellness, written and verbal communications, and computer applications. Students will explore skills and knowledge specific to defined occupations in the health care system. A requirement of the course is that each student complete 10 hours of volunteer work outside of class time.

INTRODUCTION À LA LITTÉRATURE 12 – French Immersion – Online

Credit Type: Academic

Introduction à la littérature is an online course that focuses on categories and types of literature, dominating themes, and writing techniques. By studying two classic French novels, students learn how authors choose types of text, point of view, and how they develop their main characters. Chronological order, storyline, and narration are among the topics studied. **Introduction à la Littérature is offered via Distance Education only.**

LAW 12

Credit Type: Academic

The Canadian Law course is designed to provide students with 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. This course requires a fair amount of reading.

SOCIOLOGY 12

Credit Type: Academic

Sociology 12 provides students with an examination of the society in which they live. Students will have the opportunity to view many of today's social issues as a sociologist would see them. Topics will include Culture, Social Institutions, Deviance, Conformity and Control, Prejudice and Discrimination, and Social Issues.

TOURISM 11 – Online

Credit Type: Academic

This course will give students an introduction to the tourism industry. The course offers students opportunities to develop the essential knowledge and skills needed to enter the tourism industry or post-secondary tourism/hospitality programs. Units for this course include the eight sectors of tourism: food and beverage; accommodation; transportation; adventure tourism and recreation; attractions; events and conferences; travel trade; and tourism services. There are a number of projects throughout this course that make up a large percentage of the overall mark. **Tourism 11 is offered via Distance Education only.**

VISUAL ARTS 11

Credit Type: Academic

Art 11 continues the concentration on drawing and design and art history (including contemporary art) and further develops skill and ability in the other core components of painting, printmaking, and sculpture.

ADVANCED ART 11 – Online

Credit Type: Academic

Advanced Art 11 is offered to students who wish to reflect upon and generate aesthetic ideas in a particular medium, process, and conceptual arena towards achieving a high level of focus and refinement. This course offers students a deeper understanding and range of various creative media. Students will also understand, reflect upon, value, and borrow from the meaning and relevance of art and aesthetics found in historical and contemporary examples.

Advanced Art 11 is offered via Distance Education only.

WORKPLACE HEALTH & SAFETY

Credit Type: Open (1/2 credit) – paired with CDV 11

Focuses on the knowledge, skills, and attitudes necessary to create safety in the workplace, including the fundamentals of OHS and WHMIS, and hazard assessment to identify potential safety hazards in the workplace and propose appropriate action.
