ROTHESAY
HIGH SCHOOL

Course Calendar
2022-2023

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NOTES

The Course Calendar is used by Grade 11 and 12 students at Rothesay High School in choosing their courses for the upcoming school year. Students in Grades 10 are enrolled in a non-credit course load with the privilege of some credit course options. Rothesay High School will be following a 5-credit semester, allowing students the opportunity for a greater variety of courses and the opportunity to study a subject in greater depth.

THE CREDIT SYSTEM

A central component of the semester high school program is the credit system which applies to all grade 11 and 12 course offerings as well as the grade 10 Number Relations and Functions Math course. The term credit describes a successfully completed course in terms of instructional hours. One credit corresponds to approximately ninety instructional hours.

COURSE CODES

The first two digits indicate the grade during which this course is usually taken. This applies primarily to the core courses in English, Mathematics, French, and Social Sciences. The third digit indicates the level: 1 - enriched university preparatory; 2-regular university and community college technology preparatory; 3 - prepares a student for some one-year courses at community college, business college or to go directly to work; 0 - only available at one level. The "0" courses vary in level of difficulty. Some "0" courses qualify as university entrance courses; others do not. Students are advised to consult with the guidance counsellor regarding specific courses. Students must also be aware that high school graduation does not necessarily mean acceptance to post-secondary institutions.

ELECTIVE COURSES

The elective course selection is designed to allow students flexibility in completing their requirements for graduation. Electives may be chosen from a broad range of subjects, or students may choose to concentrate in one specialized area of the curriculum such as science or technology.

Elective course selection will often depend on counselling from parents, teachers, guidance personnel, and administrators. Students who plan careers in engineering, for example, must have the appropriate courses in their graduation transcripts which will allow them access to universities of their choice. A key consideration is to have students open as many education doors as possible. Students' programs, therefore, should be flexible and adaptable.

RHS does our best to offer the courses our students desire but may not be able to run all courses if there is low interest, Students will be asked for alternate choices.

ADVANCED PLACEMENT PROGRAM

What is AP?

Advanced Placement is two things:

- a program of advanced studies intended to allow high school students to work at a university entrance level.
- an international program offering standardized exams that allow students, if successful on the exam, to obtain university credits.

The Advantages of AP include:

- the opportunity to participate in a challenging program of studies.
- placement with highly motivated students with common interests, both in terms of the subject and in their desire for excellence.
- the opportunity to write an exam that could provide a university credit, advanced standing, and considerable tuition savings.

ADVANCED PLACEMENT COURSES

AP CALCULUS AB 120

Prerequisite: Pre-Cal 12A, Pre-Cal 12B Calculus 120

This course focuses on students' understanding of calculus concepts and provide experience with methods and applications. Using big ideas of calculus (e.g., modeling change, approximation and limits, and analysis of functions), each course becomes a cohesive whole, rather than a collection of unrelated topics. Both courses require students to use definitions and theorems to build arguments and justify conclusions.

The AP English Language and Composition course focuses on the development and revision of evidence-based analytic and argumentative writing, the rhetorical analysis of nonfiction texts, and the decisions writers make as they compose and revise. Students evaluate, synthesize, and cite research to support their arguments. Additionally, they read and analyze rhetorical elements and their effects in nonfiction texts—including images as forms of text— from a range of disciplines and historical periods.

AP ENGLISH LITERATURE AND COMPOSITION 120

Prerequisite: English 121

This course focuses on reading, analyzing, and writing about imaginative literature (fiction, poetry, drama) from various periods. Students engage in close reading and critical analysis of imaginative literature to deepen their understanding of the ways writers use language to provide both meaning and pleasure. As they read, students consider a work's structure, style, and themes, as well as its use of figurative language, imagery, and symbolism. Writing assignments include expository, analytical, and argumentative essays that require students to analyze and interpret literary works.

AP LANGUAGE AND COMPOSITION 120

Prerequisite: English 111

This course focuses on the development and revision of evidence-based analytic and argumentative writing, the rhetorical analysis of nonfiction texts, and the decisions writers make as they compose and revise. Students evaluate, synthesize, and cite research to support their arguments. Additionally, they read and analyze rhetorical elements and their effects in nonfiction texts—including images as forms of text—from a range of disciplines and historical periods.

AP PSYCHOLOGY 120
This course introduces students to the systematic and scientific study of human behavior and mental processes. While considering the psychologists and studies that have shaped the field, students explore and apply psychological theories, key concepts, and phenomena associated with such topics as the biological bases of behavior, sensation, and perception, learning and cognition, motivation, developmental psychology, testing and individual differences, treatments of psychological disorders, and social psychology. Throughout the course, students employ psychological research methods, including ethical considerations, as they use the scientific method, evaluate claims, and evidence, and effectively communicate ideas.

AP MUSIC THEORY 120
This course corresponds to one-to-two semesters of typical, introductory college music theory coursework that covers topics such as musicianship, theory, and musical materials and procedures. Musicianship skills, including dictation and listening skills, sight singing, and harmony, are an important part of the course. Through the course, students develop the ability to recognize, understand, and describe basic materials and processes of tonal music that are heard or presented in a score. Development of aural (listening) skills is a primary objective. Performance is also part of the curriculum through the practice of sight-singing. Students learn basic concepts and terminology by listening to and performing a wide variety of music. Notational skills, speed, and fluency with basic materials are emphasized.

AP BIOLOGY 120
Prerequisite: Biology 111, Chemistry 122
is an introductory college-level biology course. Students cultivate their understanding of biology through inquiry-based investigations as they explore the following topics: evolution, cellular processes, energy and communication, genetics, information transfer, ecology, and interactions.

AP FRENCH LANGUAGE AND CULTURE 120
Prerequisite: FILA 120
This course emphasizes communication (understanding and being understood by others) by applying interpersonal, interpretive, and presentational skills in real-life situations. This includes vocabulary usage, language control, communication strategies, and cultural awareness. The AP French Language and Culture course strives not to overemphasize grammatical accuracy at the expense of communication. To best facilitate the study of language and culture, the course is taught exclusively in French. The AP French Language and Culture course engages students in an exploration of culture in both contemporary and historical contexts. The course develops students' awareness and appreciation of cultural products (e.g., tools, books, music, laws, conventions, institutions); practices (patterns of social interactions within a culture); and perspectives (values, attitudes, and assumptions).

AP COMPUTER SCIENCE PRINCIPLES 120
This course is an introductory college-level computing course that introduces students to the breadth of the field of computer science. Students learn to design and evaluate solutions and to apply computer science to solve problems through the development of algorithms and programs. They incorporate abstraction into programs and use data to discover new knowledge. Students also explain how computing innovations and computing systems—including the internet—work, explore their potential impacts, and contribute to a computing culture that is collaborative and ethical.

AP COMPARATIVE GOVERNMENT AND POLITICS 120
This course introduces students to the rich diversity of political life outside the United States. The course uses a comparative approach to examine the political structures; policies; and political, economic, and social challenges of six selected countries: China, Iran, Mexico, Nigeria, Russia, and the United Kingdom. Students compare the effectiveness of approaches to many global issues by examining how different governments solve similar problems. They will also engage in disciplinary practices that require them to read and interpret data, make comparisons and applications, and develop evidence-based arguments.

AP EUROPEAN HISTORY 120

Prerequisite: Modern History 111 or 112

students investigate significant events, individuals, developments, and processes from approximately 1450 to the present. Students develop and use the same skills, practices, and methods employed by historians: analyzing primary and secondary sources; developing historical arguments; making historical connections; and utilizing reasoning about comparison, causation, and continuity and change over time. The course also provides seven themes that students explore throughout the course to make connections among historical developments in different times and places: interaction of Europe and the world, economic and commercial development, cultural and intellectual development, states and other institutions of power, social organization and development, national and European identity, and technological and scientific innovations.

AP WORLD HISTORY 120

In this course students investigate significant events, individuals, developments, and processes from 1200 to the present. Students develop and use the same skills, practices, and methods employed by historians: analyzing primary and secondary sources; developing historical arguments; making historical connections; and utilizing reasoning about comparison, causation, and continuity and change over time. The course provides six themes that students explore throughout the course to make connections among historical developments in different times and places: humans and the environment, cultural developments and interactions, governance, economic systems, social interactions and organization, and technology and innovation.

AP STATISTICS 120

In this course introduces students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. There are four themes evident in the content, skills, and assessment in the AP Statistics course: exploring data, sampling and experimentation, probability and simulation, and statistical inference. Students use technology, investigations, problem solving, and writing as they build conceptual understanding.

AP ENVIRONMENTAL SCIENCE 120

In this course is designed to engage students with the scientific principles, concepts, and methodologies required to understand the interrelationships within the natural world. The course requires that students identify and analyze natural and human-made environmental problems, evaluate the relative risks associated with these problems, and examine alternative solutions for resolving or preventing them. Environmental science is interdisciplinary, embracing topics from geology, biology, environmental studies, environmental science, chemistry, and geography.

AP Capstone Diploma Program

Rothesay High School is ***among the few*** Canadian high schools,
and one of the ***first schools in Atlantic Canada***, to offer the AP Capstone Diploma Program.

What is AP Capstone?

- AP Capstone is an innovative diploma program that provides students with an opportunity to engage in rigorous scholarly practice of the core academic skills necessary for successful university completion.
- AP Capstone is built on the foundation of two courses - **AP Seminar** and **AP Research-** and is designed to complement and enhance the in-depth, discipline-specific study provided through AP courses.
- AP Capstone cultivates curious, independent, and collaborative scholars and prepares them to make logical, evidence-based decisions.

The Advantages of AP Capstone include:

- Fosters the **critical and creative thinking, argumentation,** and **research skills** that are at the core of university readiness and essential for lifelong learning.
- Provides a setting to build on the knowledge and rigorous course work of AP in an **interdisciplinary** format.
- Offers students a unique opportunity to **distinguish** themselves to colleges and universities.

Option 1: ***AP Capstone Diploma***

4 AP Subject Courses (Grade 11 & 12)*
AP Seminar (Grade 11)*
AP Research (Grade 12)*

AP Seminar - Course Description

Students will examine materials such as news stories, research studies, and literary works to craft arguments to support a point of view and communicate them effectively using various media. Students will consider an issue from multiple perspectives, evaluate the strength of an argument, and make logical, fact-based decisions. Students will be assessed through a combination of individual and team projects and presentations as well as through a written exam.

Option 2: ***AP Capstone Certificate***

AP Seminar (Grade 11)*
AP Research (Grade 12)*

AP Research - Course Description

Students will work with a mentor in order to explore an academic topic, problem, or issue that interests them and design, plan, and conduct a year-long research-based investigation to address it. The course culminates in an academic thesis paper of approximately 5,000 words and a presentation, performance, or exhibition with an oral defense; where you answer 3-4 questions from a panel of trained evaluators.

****Students must attain an AP grade of 3 or higher to be eligible for the diploma/certificate.***

New Brunswick High School Diploma Requirements

Graduation Requirements
18 out of 21 possible credits

Compulsory Credits (8 required)

- **3 English**: grade 11 (2 credits); plus, grade 12 (1 credit)
- **2 Math:** NRF 10 and Foundations 110 or Financial Workplace 110 and NBCC 120
- **1 Modern History**
- **1 Science** (Biology, Chemistry, Physics, Environmental Science, Physical Geography, Intro to Electronics)
- **1 Fine Arts/Life Role from the following courses:**
    - Visual Arts 110/120
    - Music 111/112/113,120,122
    - Individual and Family Dynamics 120
    - Co-Op 120, Career Explorations 120
    - Wellness through Phys Ed 110
    - Outdoor Pursuits 110
    - Physical Education Leadership 120
    - Entrepreneurship 110
    - Reading Tutor 120
    - Applied Tech/Skilled Tech at 110 or 120 level
    - Nutrition and Healthy Living 120

Plus 10 Electives

- **5 Credits must be at the grade 12 level**
- **Student must pass the English Language Proficiency Assessment**

COURSE DESCRIPTIONS - ENGLISH COURSES

ENGLISH 111 – Literary Texts and Information Texts (Must select BOTH)
English 111 is an enriched English course but it is like the regular college preparatory course described below. In addition, however, students are expected to cover a wider supplementary reading and writing program. This course is considered part of the AP stream. Students will be enrolled in AP Seminar.

English 112 - Literary Texts and Information Texts (Must select BOTH)
English 112 is the regular college preparatory course and is broken down into Literary Text and Informational text. The three strands of the English curriculum, Reading/Viewing, Writing/Representing and Speaking/Listening as well as the Achievement Standards will be the focus. In the literary course, students will study the short story, novel study, fiction and non-fiction articles, poetry, and drama. The writing section will concentrate on sentence and paragraph writing skills and strategies. The Informational Text course will focus on visuals, multi-media, non-fiction, multi-genre, and book clubs for reading & viewing. Transactional, expressive, a formal research paper and multi-media are the areas of focus for writing and representing.

ENGLISH 113 - Literary Texts and Information Texts (Must select BOTH)
English 113 is intended for students who are planning to enter the work force after graduation or to take certain courses at community college. An emphasis is placed on the development of basic reading, writing, and speaking skills. The course contains two main components, literature, and writing. In the literature unit, the students will study the short story, the novel, poetry, drama, and media. The writing unit will have continued emphasis on developing good sentence and paragraph writing skills, the long composition or report, writing summaries, spelling, punctuation, and syntax.

ENGLISH 121
Prerequisite: Successful completion of English 111
English 121 is an enriched English course but it is like the regular college preparatory course described below. In addition, however, students are expected to cover a wider supplementary reading and writing program. This course is considered part of the AP stream.

ENGLISH 122
Prerequisite: successful completion of English 112
English 122 is university preparatory course. Its emphasis is on learning and applying critical theory literary theories with a multi-perspective analysis of a variety of short fiction, poetry, non-fiction, and novels. There is continued emphasis on reading comprehension strategies, the writing process, as well as producing a formal academic research essay. Although a mix of informal and formal, speaking and listening activities at this level lean towards more on formal presentations. Units vary, but may involve a novel study, short story unit, poetry, a drama study, non-fiction essays/articles, and a multi-genre independent reading/writing unit.

ENGLISH 123
Prerequisite: successful completion of English 112 or 113
English 123 is intended for those students who plan to enter the work force after graduation or take certain courses at community college. English 123 has two main components: literature and writing. The literature section will concentrate on the short story, fiction and non-fiction articles, the novel, media, and poetry. The writing unit will have continued emphasis on sentence and paragraph writing skills, essay writing skills, spelling, and punctuation.

AP SEMINAR 120

Students will examine materials such as news stories, research studies, and literary works to craft arguments to support a point of view and communicate them effectively using various media. Students will consider an issue from multiple perspectives, evaluate the strength of an argument, and make logical, fact-based decisions. Students will be assessed through a combination of individual and team projects and presentations as well as through a written exam.

AP ENGLISH LITERATURE 120

Prerequisite: English 121

The AP English Literature and Composition course is designed to build on students' analytical skills in literature students will be exploring recognized works of literary merit. Advanced Placement (AP) English Literature and Composition is designed to be an academically rigorous and challenging course which emulates college material, emphasizing writing concisely, thinking clearly and reading critically. Writing, thinking, and reading skills are expected to be fostered largely *independent* of others. This course is the equivalent of an introductory English course taught at the university level. Students may be required to do readings before the semester starts. Students who choose to write the AP exam may qualify for advanced standing or credit at university. Check with individual institutions for the AP policies.

AP ENGLISH LANGUAGE AND COMPOSITION

Prerequisite: English 111

This course focuses on the development and revision of evidence-based analytic and argumentative writing, the rhetorical analysis of nonfiction texts, and the decisions writers make as they compose and revise. Students evaluate, synthesize, and cite research to support their arguments. Additionally, they read and analyze rhetorical elements and their effects in nonfiction texts—including images as forms of text— from a range of disciplines and historical periods.

CANADIAN LITERATURE 120

Prerequisite: successful completion of English 111 or 112

Canadian Literature 120 involves a study of Canadian plays, poetry, short stories, and novels. An emphasis is placed on how the literature of the nineteenth and twentieth centuries reflects the Canadian identity and how it is unique in world literature.

JOURNALISM 120

Prerequisite: Students taking this course must have passed either English 111 or 112.

Journalism 120 is a course intended for those students who have an interest in writing and journalism. This course introduces students to basic news writing, news skills and concepts, including how news is covered and reported, what makes news, what constitutes good news writing, and how to write summary leads. Students will also learn how to distinguish between quotation and attribution and how to organize a news story, as well as interviewing techniques, writing basic stories, beat reporting, and feature writing. Instructions will also be given in the use of word processing and desktop publishing programs.

MEDIA STUDIES 120

Prerequisite: This course is open to Grade 12 students only.

This is a hands-on course in the media. It will deal with film, television, advertising, and video. The course will cover the characteristics and techniques of each medium and will involve extensive practical work in such areas as the making of videos and commercials. Although it is a hands-on course, students are expected to do a substantial amount of reading and writing dealing with the theory related to the various media.

WOMEN, MEDIA & CULTURE 120

Women, Media & Culture 120 aims to introduce students to critical literacy practices by examining cultural constructions (in particular, media representations) that shape and inform identities. The course engages students in reflective thinking about how they have been taught to "read the word and read the world" (Freire, 1970). Students participate in class discussions and activities that focus on representations of race, gender, class, sexuality, ability, language, and other identity categories found in past and present media sources. The overall goal of the course is to encourage critical thinking, critical questioning, and critical action to construct a more socially just and democratic world.

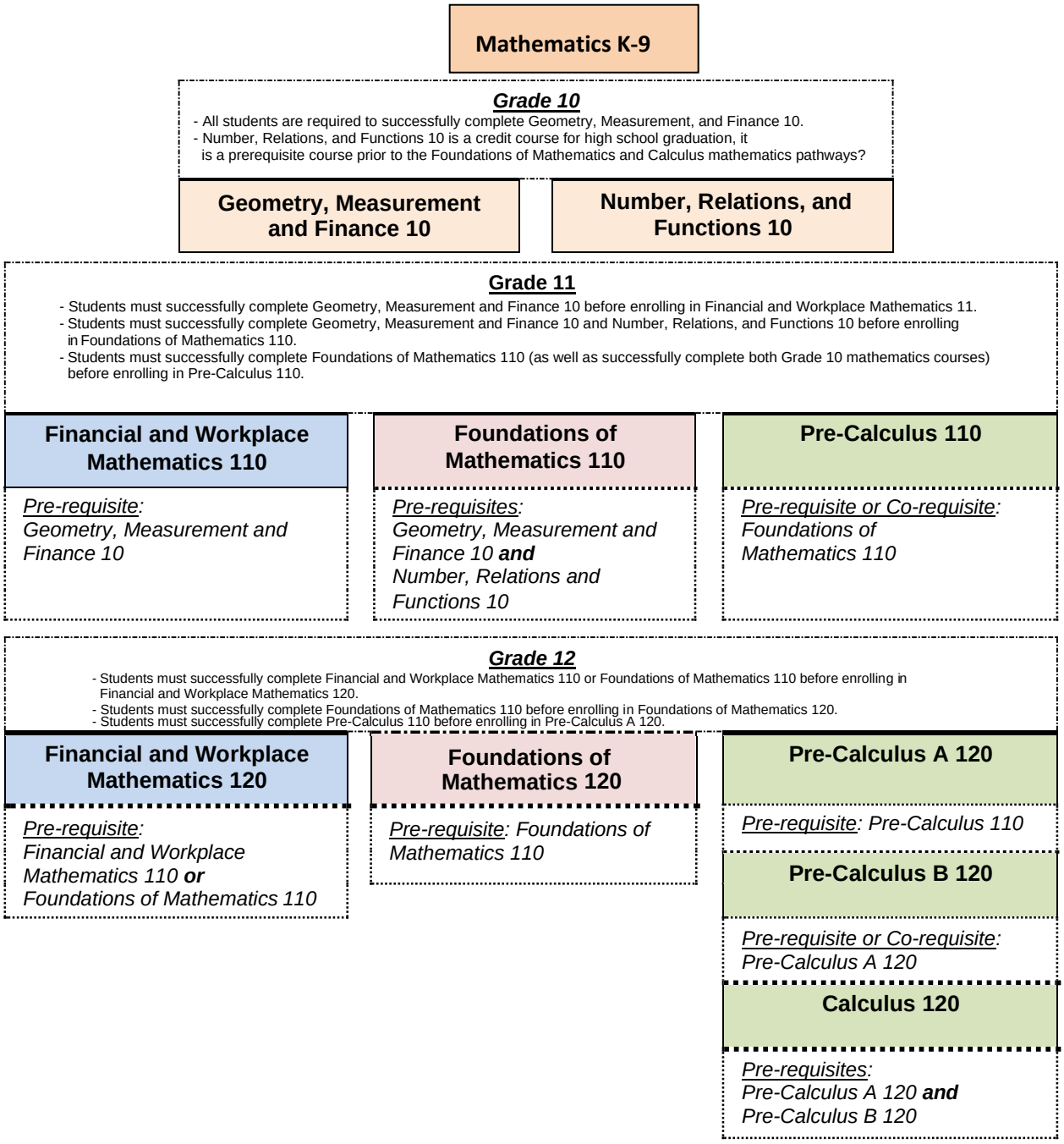
WRITING 110

Writing 110 is intended for students who are serious about strengthening their basic reading and writing skills to have success in the college preparatory English program. The course will cover units on the sentence, the paragraph, the essay, syntax, spelling, and punctuation. Students will be expected to write daily.

COURSE DESCRIPTIONS - MATHEMATICS COURSES

Pathways and Courses

The graphic below summarizes the three mathematics pathways and courses currently offered.



Beginning September 2020, students expected to graduate in 2023 must complete 18 credits for high school graduation, 2 of which must be Mathematics credits.
Numbers, Relations, and Functions is considered a mathematics credit, as well as all Grade 11 and Grade 12 courses within the three mathematics graduation pathways.

Students are required to take one math credit beyond NFR10, either **Financial and Workplace Mathematics 110** or **Foundations of Math 110**. We recommend that students pursuing post-secondary studies enroll in the second Grade 11 Math credit which is called **Pre-Calculus 110. If students do not pass NFR10 they must get two additional math credits**

FINANCIAL & WORKPLACE MATHEMATICS 110
*Students have a choice of this course or **Foundations of Mathematics 11** to complete graduation requirements. This is a pre-requisite for **Financial and Workplace Mathematics 12**.*
This course is the first of two courses in the Financial and Workplace pathway designed for entry into post-secondary trades and technical programs, or for direct entry into the work force. Concepts of right triangles, trigonometry, and angles of elevation and depression are applied to contextual problems. Scale models and drawings of 2-D and 3-D objects are constructed from various views and perspectives. Students are challenged to solve problems that involve numerical reasoning. Costs and benefits of renting, leasing, and buying are explored, investment portfolios analyzed, and personal budgets developed. Students manipulate and apply formulas in a variety of ways and solve problems using proportional reasoning and unit analysis.

NBCC SKILL TRADE WORK READY MATH 120
The NBCC Dual-Credit Skilled trades Mathematics course focuses on refreshing math skills and solving contextual problems related to skilled trades. Students will gain independence by learning in a self-paced environment and will complete personalized, hands-on projects that incorporate multiple trades. Once a student successfully completes this course, it can be used as a credit towards many trades' programs at NBCC.

FOUNDATIONS OF MATHEMATICS 110
*Students have a choice of this course or **Financial and Workplace 11** to complete graduation requirements. This is a pre-requisite for **Foundations of Mathematics 12** and a pre-requisite or co-requisite for **Pre-Calculus 11**. This course is available in French as well.*
This course is a pre-requisite for a second **Foundations of Mathematics** course in Grade 12, providing a pathway designed for entry into academic programs not requiring pre-calculus. It is also a pre-requisite for the pre-calculus pathway. Students develop spatial sense and proportional reasoning through problems that involve rates, scale diagrams and relationships among similar 2-D and 3-D shapes and objects. Students develop logical reasoning skills and apply this to proofs and problems involving angles and triangles, the sine law, and the cosine law. Students model and solve problems involving systems of linear inequality in two variables and explore characteristics of quadratic functions. Costs and benefits of renting, leasing, and buying are explored, and investment portfolios are analyzed.

FOUNDATIONS OF MATHEMATICS 120

Foundations of Mathematics 110 *is a pre-requisite for this course. This course completes the Foundations of Mathematics pathway.*

This is the second of two courses in the Foundations of Mathematics pathway designed for entry into post-secondary academic programs not requiring pre-calculus. In statistics, students are introduced to normal curves, and learn to interpret statistical data, using confidence intervals, confidence levels, and margins of error. To develop logical reasoning students, analyze puzzles and games, and solve problems that involve application of set theory and conditional statements. The validity of odds and probability statements are assessed, and problems are solved that involve probability of two events, the fundamental counting principle, permutations, and combinations. The binomial theorem is used to expand powers of a binomial. Data is represented using polynomial functions, exponential and logarithmic functions and sinusoidal functions to solve problems.

PRE-CALCULUS 110

Foundations 110 is a pre-requisite for this course.

This course, followed by later courses in Pre-Calculus and Calculus is designed for entry into post-secondary programs requiring Pre-Calculus. Students demonstrate an understanding of absolute value of real numbers, and solve problems that involve radicals, radical expressions, and radical equations. Students determine equivalent forms, simplify rational expressions, and solve problems that involve rational equations. They develop an understanding of angles in standard position ($0°\text{to}360°$) and solve problems for these angles using the three primary trigonometric ratios. Polynomial expressions are factored, and absolute value functions and quadratic functions are analyzed and graphed. Students solve problems that involve quadratic equations and solve, algebraically and graphically, problems that involve systems of linear-quadratic and quadratic-quadratic equations in two variables. They also solve problems that involve linear and quadratic inequalities in two variables, and quadratic inequalities in one variable.

PRE-CALCULUS A 120

Pre-Calculus 110 *is a pre-requisite for this course, and this course is a pre-requisite for* ***Pre-Calculus B 120****.*

This course follows **Pre-Calculus 110** and precedes **Pre-Calculus B 120**. Students demonstrate and apply an understanding of the effects of horizontal and vertical translations, horizontal and vertical stretches, and reflections on graphs of functions and their related equations. They are introduced to inverses of functions, logarithms, and the product, quotient and power laws of logarithms and use these laws and the relationship between logarithmic and exponential functions to solve problems. Students are introduced to angles in standard position, expressed in degrees and radians, and to the unit circle. The six trigonometric ratios, and the sine, cosine and tangent functions are used to solve problems. First and second-degree trigonometric equations are solved algebraically and graphically with the domain expressed in degrees and radians. Trigonometric identities are proven using reciprocal, quotient, Pythagorean, sum or difference, and double-angle identities.

PRE-CALCULUS B 120

Pre-Calculus A 120 *is a pre-requisite for this course, and this course is a pre-requisite for* ***Calculus 120***

This course follows **Pre-Calculus A 120** and precedes **Calculus 120**). Students analyze arithmetic and geometric sequences and series to solve problems. They learn to factor polynomials of degree greater than two, and to graph and analyze polynomial functions. They also graph and analyze radical, reciprocal, and rational functions, building a function toolkit. Students are introduced to the concept of limits and determine the limit of a function at a point both graphically and analytically. They explore and analyze left- and right-hand limits as x approaches a certain value using correct notation, analyze the continuity of a function and explore limits which involve infinity.

CALCULUS 120

Prerequisite: ***Pre-Calculus A 120 and Pre-Calculus B 120.*** *This course is recommended for students interested in post-secondary programs in science, engineering, and mathematics, though it may not be a required entrance requirement. Students should check entrance requirements for the specific program and institution in which they are interested*

This optional course is designed for students who wish to take further mathematics at university. This is the last course offered in the Pre-Calculus Pathway and follows Pre-Calculus B 120. This course develops the concepts of average and instantaneous rates of change. Derivatives are determined by applying the definition of a derivative and the derivative rules including the Chain Rule and are determined for trigonometric functions. Limits and derivatives of exponential and logarithmic functions are found. Calculus techniques are used to sketch graphs of functions, and to solve optimization problems. Problems are solved involving inverse trigonometric functions, involving related rates, and involving the

application of the integral of a function from a variety of fields. The definite integral and the antiderivative of a function are determined.

AP CALCULUS AB 120

This course students' understanding of calculus concepts and provide experience with methods and applications. Using big ideas of calculus (e.g., modeling change, approximation and limits, and analysis of functions), each course becomes a cohesive whole, rather than a collection of unrelated topics. This course requires students to use definitions and theorems to build arguments and justify conclusions.

AP STATISTICS 120

This course introduces students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. There are four themes evident in the content, skills, and assessment in the AP Statistics course: exploring data, sampling and experimentation, probability and simulation, and statistical inference. Students use technology, investigations, problem solving, and writing as they build conceptual understanding.

COURSE DESCRIPTIONS - SCIENCE COURSES

To graduate, a student must have a minimum of one science credit.

Biology 111
Prerequisite: Grade 10 science
This course covers the same topics as Biology 112. However, most topics are covered in greater detail and some topics are covered independently.

BIOLOGY 112
Prerequisite: Grade 10 Science
Biology 112 is a laboratory-oriented course that emphasizes the knowledge, skill, and STS (Science, Technology and Society) connections among the following topics: structure of cells, classification of living things, flow of matter and energy in organisms and biosphere, matter and energy exchange in digestive, respiratory, excretory, and circulatory systems, blood, and immunity.

BIOLOGY 121/122
Prerequisite: Biology 111/112
Biology 121/122 is a senior level college preparatory course combining theory and lab work. Students should have a strong science background. Additional science courses, especially Chemistry 122 and Physics 112 would be helpful. Topics covered include system regulatory change in human and other organisms, reproduction and development, chromosomes, genes, and DNA, and change in population, communities, and species.

AP BIOLOGY 120 (MUST SELECT WITH Bio 121)
Prerequisite: Biology 12
AP Biology is an intensive course designed to be the equivalent of an introductory biology course taken in college. The emphasis is on developing an understanding of biological concepts rather than an accumulation of facts. The student should understand and appreciate the science of biology as a process and a personal experience in scientific inquiry that develops their problem solving and critical thinking skills.

AP PSYCHOLOGY 120
The AP Psychology course is designed to introduce students to the systematic and scientific study of the behaviour and mental processes of human beings and other animals. Students are exposed to the psychological facts, principles, and phenomena associated with each of the subfields within psychology. They also learn about the ethics and methods psychologists use in their science and practice. This course is the equivalent of an introductory psychology course taught at the university level. Students will be required to do readings before the semester starts. Students who choose to write the AP exam may qualify for advanced standing or credit at university. Check with individual institutions for the AP policies.

CHEMISTRY 111

Prerequisite: Grade 10 science

This course covers the same topics as Chemistry 112. However, most topics are covered in greater detail and some topics are covered independently.

CHEMISTRY 112

Prerequisite: Grade 10 science

This course is a college preparation course and is an entrance requirement for science related university courses as well as community colleges and nursing programs. The course will begin with a quick review of atomic theory and the periodic table of the elements, and then will go on to cover compounds, chemical reactions, the mole, stoichiometry, and an introduction to chemical bonding. This course has a large lab component that will familiarize students with lab safety, lab apparatus and a variety of laboratory techniques.

CHEMISTRY 121

Prerequisite: Chemistry 111

This course covers the content from Chemistry 122. However, most topics are covered in greater details and some topics are covered independently.

CHEMISTRY 122

Prerequisite: Chemistry 112

This is the second Chemistry course in which science-oriented students should enroll. In this course, the following sections will be covered: Organic Chemistry, Thermal Chemistry, Chemical Equilibrium (kinetics), and Acids and Bases. The labs associated with this program will be more challenging. In addition, there are substantial theoretical and mathematical components to this course.

INTRODUCTION TO ENVIRONMENTAL SCIENCE 120

This is a college preparatory course. The major topics covered will deal with the structure of the environment, attitude towards the environment, the ecosystem, concept, natural resources, population, sustainable development, and current environmental issues. The course includes lecture demonstrations, laboratory work, and field trips (where possible). Although there is no prerequisite, students who have taken, or are presently taking either a biology or Chemistry course will find it helpful.

AP ENVIRONMENTAL SCIENCE

This course is designed to engage students with the scientific principles, concepts, and methodologies required to understand the interrelationships within the natural world. The course requires that students identify and analyze natural and human-made environmental problems, evaluate the relative risks associated with these problems, and examine alternative solutions for resolving or preventing them. Environmental science is interdisciplinary, embracing topics from geology, biology, environmental studies, environmental science, chemistry, and geography.

PHYSICAL GEOGRAPHY 110 / FI PHYSICAL GEOGRAPHY 110
Physical Geography 110 is the study of the physical features of the earth and their effects on humankind. It examines the interaction among all components of the environment and emphasizes the relationship between the land and humanity. It examines climatology and meteorology and their impact on people. It is designed to develop an understanding of the basic principle of the geographic method that will enhance transferable skills. The course is based on the nine big ideas of earth science (http://www.earthscienceliteracy.org) and incorporates concepts from the Stonehammer Geopark. This course is accepted for university entrance as a science elective.

PHYSICS 111
Prerequisite: Grade 10 Science
This course covers the same topics as Physics 112. However, each topic is covered in greater detail and more independent thought is required. Students are also required to do additional independent research.

PHYSICS 112
Prerequisite: Grade 10 Science
This course is a college preparation course and is an entrance requirement for science related university courses as well as community colleges and nursing programs. This is the first of two Physics courses, and it is recommended that all science-oriented students take both courses. The course will begin with a review of scientific notation, significant digits, and the metric system. The following topics will then be covered: heat, waves, sound, light, optics, electricity, and magnetism. There is a lab component to this course, and students will be expected to complete regular lab reports.

PHYSICS 121
Prerequisite: Physics 111
This course covers the same topics as Physics 122. However, each topic is covered in greater detail and more independent thought is required.

PHYSICS 122
Prerequisite: Physics 112
This course consists of the mechanics of one and two-dimensional systems. Topics such as motion, momentum, torque, work, and force will be covered. There is substantial mathematical component as trigonometry and quadratic equations are used in problem solving. This course contains a fewer number of labs than the grade 11 course, but each of the labs is much longer and more detailed.

COURSE DESCRIPTIONS FRENCH COURSES

Because of the variety of levels of French courses available in the graduation years, the following guide is provided to assist students and parents in the selection of appropriate courses in the French programs.

To graduate, a student must take French in Grades 9 and 10.

The various French courses offered at Rothesay High School are listed according to their decreasing level of advancement in the French language.

Early Immersion
Late Immersion
Post Intensive French

Students in the Immersion Programs are expected to continue their program at the senior high level by taking **five** courses in French over two years in Grades 11 and 12.

The following are required course selection outlines for Immersion students:

Grade 11: French Immersion Language Arts 110 and French Immersion Modern History 111/112
Grade 12: French Immersion Language Arts 120

FI LANGUAGE ARTS 110
Prerequisite: successful completion of F.I. Language Arts in the 9/10 Program
This course is a continuation of and follows the same general pattern as the Grade 10 course. The content of this course is based on five components: oral expression, literature, grammar, composition, and culture. This course is to be taken in conjunction with F.I. Modern History 110.

FI LANGUAGE ARTS 120
Prerequisite: successful completion of F.I. Language Arts 110
This course is a continuation of the grade 11 course and emphasizes vocabulary building, writing and oral expression, literature, grammar, and culture. All these aspects are examined in context using various resources, visual and audio, variety of contemporary written material, articles, and novels from francophone countries. Emphasis is placed on oral proficiency and understanding; therefore, group work and communicative activities and projects are of great importance. Students must take a grade 12 French course to do the French proficiency exam administered by the Province of New Brunswick.

TECHNIQUES DE COMMUNICATIONS 120
This course is designed to develop effective French communication skills. It emphasizes the use of set-up phrases, idiomatic expressions, correct pronunciation and intonation, the development of useful vocabulary, and ability to communicate without hesitation in any given situation. Learning will be done through activities such as: Games, role play, skits, debates, songs, improv, and discussions on current events. Students will be required to do oral presentations either individually or in pairs. An oral exam will be given at the end of the semester as part of the formal evaluation. This is a recommended course for those students who are in the FI program in preparation for the OPI (Provincial Oral proficiency exam). **Prerequisite: FI Language Arts 11**

AP FRENCH LANGUAGE AND CULTURE 120
This course emphasizes communication (understanding and being understood by others) by applying interpersonal, interpretive, and presentational skills in real-life situations. This includes vocabulary usage, language control, communication strategies, and cultural awareness. The AP French Language and Culture course strives not to overemphasize grammatical accuracy at the expense of communication. To best facilitate the study of language and culture, the course is taught exclusively in French. The AP French Language and Culture course engages students in an exploration of culture in both contemporary and historical contexts. The course develops students' awareness and appreciation of cultural products (e.g., tools, books, music, laws, conventions, institutions); practices (patterns of social interactions within a culture); and perspectives (values, attitudes, and assumptions).

FI MODERN HISTORY 111/112 see page 24

FI FAMILY DYNAMICS 120 see page see page 31

POST-INTENSIVE FRENCH 110 (Due to low enrollment this will be Distance Ed)
Post-Intensive French is a literacy-based, non-immersion program for students choosing to continue to learn French as a second Language. Themes at this level include mysteries, injustices, and the power of photography.
**Note also that if a student achieves a level of Intermediate at the end of grade 10, he or she may select to enroll in French immersion courses or Post-Intensive French courses in grades 11 and 12.*

POST-INTENSIVE FRENCH 120 (Due to low enrollment this will be Distance ED)
Post-Intensive French is a literacy-based, non-immersion program for students choosing to continue to learn French as a second Language. Themes at this level include looking to the future, ecological challenges, similarities and differences and careers. Students must take a grade 12 French course to do the French proficiency exam administered by the Province of New Brunswick.
**Note also that if a student achieves a level of Intermediate at the end of grade 10, he or she may select to enroll in French immersion courses or Post-Intensive French courses in grades 11 and 12.*

COURSE DESCRIPTIONS -SOCIAL SCIENCES COURSES

AP COMPARATIVE GOVERNMENT AND POLITICS 120

This introduces students to the rich diversity of political life outside the United States. The course uses a comparative approach to examine the political structures; policies; and political, economic, and social challenges of six selected countries: China, Iran, Mexico, Nigeria, Russia, and the United Kingdom. Students compare the effectiveness of approaches to many global issues by examining how different governments solve similar problems. They will also engage in disciplinary practices that require them to read and interpret data, make comparisons and applications, and develop evidence-based arguments.

AP EUROPEAN HISTORY 120

In this course students investigate significant events, individuals, developments, and processes from approximately 1450 to the present. Students develop and use the same skills, practices, and methods employed by historians: analyzing primary and secondary sources; developing historical arguments; making historical connections; and utilizing reasoning about comparison, causation, and continuity and change over time. The course also provides seven themes that students explore throughout the course to make connections among historical developments in different times and places: interaction of Europe and the world, economic and commercial development, cultural and intellectual development, states and other institutions of power, social organization and development, national and European identity, and technological and scientific innovations.

AP WORLD HISTORY: MODERN 120

In this course students investigate significant events, individuals, developments, and processes from 1200 to the present. Students develop and use the same skills, practices, and methods employed by historians: analyzing primary and secondary sources; developing historical arguments; making historical connections; and utilizing reasoning about comparison, causation, and continuity and change over time. The course provides six themes that students explore throughout the course to make connections among historical developments in different times and places: humans and the environment, cultural developments and interactions, governance, economic systems, social interactions and organization, and technology and innovation.

CANADIAN HISTORY 122

Prerequisite: Modern History 111, 112 or FI equivalent

This course involves the history of Canada from "who might have discovered America" to modern day Canada. The course is covered by a topical approach, such as American Revolution, Acadians, Loyalists, War of 1812, Rebellion of 1837, Confederation, Canada at War, Rediscovering Canada's past, answers to our present-day problems through lectures, discussions, debates, and films.

MODERN HISTORY (ENG) (FI) 111
Modern History 111 is an enriched, in-depth thematic study of Modern European History, examining the following revolutions: the Liberal Revolutions of 1848, the French Revolution, the Industrial Revolution, the Communist Revolution and the National Socialist Revolution.

MODERN HISTORY (ENG) (FI) 112
This is a Modern History course that allows the individual schools considerable flexibility in their choice of topics. The following topics are studied: the French Revolution, the Industrial Revolution, the clash of Nationalism; the unification of Germany and its effects, the Totalitarianism Challenge: The Communist Left and the Fascist Right, World War II, and the Holocaust, Toward a Global Society; the continuing search for security and the emergence of the developing world.

MODERN HISTORY 113
This is a twentieth century history course which surveys the following topics: basic world Geography, Industrialization, World War I, Life in the 1920's and 30's, World War II, The Holocaust, the Cold War, China in Revolution, and The Middle East.

ECONOMICS 120
Economics is the social science that investigates problems arising out of scarcity of limited resources to satisfy unlimited human wants. One of the major roles of an economist is to give advice to business and government on how to best allocate limited resources so that they can be used in the most productive and efficient way. There are several areas of concentration that are central to the study of economics which include: direct costs/opportunity costs, production-possibilities curves, the law of diminishing returns, economic systems (resource ownership and the decision process) the operation of a market (factors affecting supply, supplier response to price changes, changes in supply, the interaction of supply and demand, the supply and demand, the stock market, the futures market, the operation of a free market system, price elasticity of demand, price elasticity of supply, the impact of government intervention (price ceilings, rent controls, price floors, and taxation), government spending, sources of government revenue, federal/provincial financial arrangements, economic indicators (unemployment, inflation, gross domestic product, international trade, money and the Canadian chartered banking systems, the Bank of Canada, the money market, money policy, fiscal policy, types of business organizations in Canada, production costs, etc.)

INDIGENOUS STUDIES 120
“Indigenous Studies 120 is designed to promote understanding of Wabanaki perspectives of life in the Maritimes, as well as to provide a lens to better understand Indigenous history, culture, and contributions across Canada—past, present, and future.” – Indigenous Studies Grade 120 course curriculum, implementation edition 2019
The content covered in this course is nuanced and deep. Students will be encouraged to reflect on cultural biases, prejudices, and discriminatory actions. They must be willing to listen to each other and express themselves with respect and understanding. The objective is to allow students to collaborate to find innovative ways to approach the learning objectives and explore avenues and opportunities for reconciliation with Indigenous communities.

LAW 120
This course is open to any Grade 11 or 12 student. It provides a general introduction to legal principles and concepts, both criminal and civil. The major topics covered are courts, civil rights, contracts, torts, consumer protection, criminal law, labour law and family law.

POLITICAL SCIENCE 120

This course begins by questioning the need for government. The advantages and disadvantages of government are presented. The major works of several political leaders such as Machiavelli, Hobbes, Locke, Rousseau, Tocqueville, Marx, and others are introduced. Their major concepts, assumptions and propositions about government, society and human nature are examined. The role of democratic and dictatorial political institutions associated with the ideas of these political theorists is also examined. These include: an historical perspective of the decline of absolute monarchy and the rise of parliamentary supremacy in England and France, an analysis of constitutions and constitutionalism in Canada and the United States, a comparison of the Canadian executive (Governor General, Prime Minister and Cabinet) and legislative branch (House of Commons and Senate) of government of that of the executive branch (Presidency) and legislative branch (Senate and House of Representatives) of government in the United States, and an examination of the electoral process (nomination conventions, leadership conventions and the voting process).

The course involves a field trip to the Provincial Legislature in Fredericton and the participation of a number of guest speakers. These include political scientists from the academic community (university professors) and federal and provincial politicians (Members of Parliament and Members of the Legislative Assembly).

SOCIOLOGY 120

This course will increase the student's awareness of themselves and others as social beings and of the social processes that shape the world in which they live. They will develop an awareness of the problems confronting contemporary society including crime, race/ethnic relations, urbanization, and the increasing complexity of social life. This course would be of interest to those students whose interest is in careers such as business, law, nursing, teaching and social work.

WORLD ISSUES 120

The need for an education that promotes a global perspective has become increasingly apparent of late. There is a growing awareness that many of the problems we face are global in nature and require a global solution. The issue of acid rain, deforestation, the Chernobyl incident, the October 1987 stock market crash serves to remind us that the events in any part of the world have a reverberating effect and therefore, it is essential we adjust our perspective to acknowledge this new reality. Phrases such as the "Global Village" and Spaceship Earth help promote a mental image which underlines this new perspective – this revolution in the way we look at our world. The purpose of the unit of study is:

- to acquaint students with these forces which have combined to create the Global Village
- to promote a greater knowledge of global dynamics
- to make students aware of the human choices, confronting individuals and nations within the global system

COURSE DESCRIPTIONS -TECHNOLOGY & TRADES COURSES

AP COMPUTER SCIENCE PRINCIPLES 120

This is an introductory college-level computing course that introduces students to the breadth of the field of computer science. Students learn to design and evaluate solutions and to apply computer science to solve problems through the development of algorithms and programs. They incorporate abstraction into programs and use data to discover new knowledge. Students also explain how computing innovations and computing systems—including the internet—work, explore their potential impacts, and contribute to a computing culture that is collaborative and ethical.

COMPUTER AIDED DESIGN 110

This course is designed to give students a solid knowledge base of drafting as well as to introduce them to the actual skills necessary to visualize and graphically represent design. The nature of the activities and the use of AutoCAD LT 2004 will interest a wide range of students beyond those preparing to pursue a career in the drafting/ technology/engineering areas.

COMPUTER SCIENCE 110

This course teaches the fundamentals of structured programming and the program development cycle. Students will learn to use basic programming constructs to write simple programs using the Visual Basic programming language. More advanced topics, including graphics and animation, are also introduced. Computer Science 110 is recommended, but not required, as a prerequisite for Computer Science 120.

COMPUTER SCIENCE 120

This course is recommended for students with a strong interest in computer programming. Students will learn the basic syntax of the Java language, program Java Applets and write simple programs using object-oriented design principles. The course provides a good foundation for students who wish to pursue a post-secondary program in computer science.

ELECTRICAL WIRING 110

This is a course for all students who want to learn about circuitry. No experience is necessary. Students enrolled in this course will teach the various circuit arrangements used to control lights and receptacles in residential applications. Theory and skills are developed through hands-on wiring projects. Successful completion of 110 (Recommendation to 120) and 120 Advance Wiring has been proven extremely helpful for students who decide to become a journeyperson in the construction trades.

INTRODUCTION TO APPLIED TECH 110 AND MILL AND CABINET 120
These courses are double blocked. They are taken during the same semester in consecutive periods.

Introduction to Applied Technology 110 is designed to provide students with the opportunity to explore a broad range of technology applications in a multi-activity learning environment. Working cooperatively in pairs, students will complete between seven and eight units of study in a technology related area. Students will think critically and logically to evaluate situations, solve problems, and make decisions relative to the area that is being studied.

Mill and Cabinet 120 is designed to provide for the acquisition of knowledge and the development of skills and work habits required to construct cabinets and built-ins found in a typical residence. Emphasis is placed on using and maintaining woodworking tools and machines. Students practice planning projects and doing cost and material estimates. The course should appeal to students interested in entering construction and woodworking occupations or with a general interest in woodworking and for those exploring options for a future career choice.

INTRODUCTION TO ELECTRONICS 110 allows the student to explore electron behavior in simple and complex circuits and to investigate its behavior in direct current devices under laboratory conditions. This course will also explore electronics, introducing basic electronic components such as diodes transistors, integrated circuits, inductors, and capacitors along with basic electronic circuitry. Introductory Electronics will be of interest to students with career objectives in the electrical occupational area as well as those who plan to continue their education at the technical or engineering level.

METALS FABRICATION 110/120 (Will be offered again in 2023-2024)
This course is double blocked. They are taken in consecutive periods in the same semester.
This course is concerned with the processes used to cut, form, and fasten metal. Emphasis is placed on the development of basic skills needed to use electric-arc (SMAW), gas metal arc welding (GMAW) and plasma arc cutting (PAC) processes. The course will explore the different welding joints and the positions required to complete them as well as the skills needed to read welding schematics. Students will learn to work and maintain a safe workplace. The course will allow students to explore the different careers that apply to the metals fabrication industry. This course will appeal to students interested in entering occupations in metal working, mechanical technology, and mechanical service.

COURSE DESCRIPTIONS FINE ARTS COURSES

AP MUSIC THEORY 120

This course corresponds to one-to-two semesters of typical, introductory college music theory coursework that covers topics such as musicianship, theory, and musical materials and procedures. Musicianship skills, including dictation and listening skills, sight singing, and harmony, are an important part of the course. Through the course, students develop the ability to recognize, understand, and describe basic materials and processes of tonal music that are heard or presented in a score. Development of aural (listening) skills is a primary objective. Performance is also part of the curriculum through the practice of sight-singing. Students learn basic concepts and terminology by listening to and performing a wide variety of music. Notational skills, speed, and fluency with basic materials are emphasized.

GRAPHIC ART AND DESIGN 110

This course has as a main goal the development of visual communication skills that are related, not so much to personal expression, as in the case in our Visual Arts courses, but more to meeting the needs of organizations that wish to promote themselves through advertising, logos, and other visual symbols. There is an increasing market for those students who are visually literate and there are a number of post-secondary institutions for which this course would be a valuable prerequisite.

VISUAL ART 110

Prerequisite Art 9/10 Program

Visual Art 110 builds on the experience and knowledge gained in the 9/10 program. The studio work remains in the areas of drawing, painting, printmaking and 3-dimensional work and stresses personal expression and the development of individual imagery. There are further requirements in art criticism and art history.

VISUAL ART 120

Prerequisite Art 110

Visual Art 120 is designed for students who wish to pursue art related interests or careers. Students work through an introductory review of skills and concepts and choose blocks that lead to advanced work on a particular medium. Students are required to critique, in writing, aspects of process and product. An opportunity to develop a portfolio for submission to an art college is also available.

MUSIC 112

Prerequisite: success in the 9/10 Music Program or permission by instructor.

Those who are participating in Rothesay High School performing groups such as Band, Choral are encouraged to take this course. Private students of piano, voice and other instruments may also apply.
Course content: Emphasis will be placed on both the practical aspect of music such as singing and playing instruments, and the academic aspect such as theory, harmony, ear training, and music history. The aim of the course is to develop a well-rounded, knowledgeable, and competent musician at the high school level.

MUSIC 122

Prerequisite: Students taking this course must have had success in Music 112. (Teacher recommendation required)

As in Music 112, this course places emphasis on practical and academic aspects of music. It is an excellent choice for musicians who have a solid theory background as it extends musicianship into other topics such as Canadian music history, computers in music, composition, ear training and performance. This course is designed to be fairly student directed. Independent research and study will be expected.

PERFORMING ARTS 120

Students will learn all aspects of performance (including stage, tech, lighting) whether it be vocal, instrumental or dance. They will have the opportunity to participate in the performing arts series and our musical to enhance those skills taught.

SONG AND SOCIETY 110

This course is designed for beginner musicians and for students who enjoyed Grade 9-10 music but do not have the theoretical or practical background to take 112. This course focuses on both the practical aspect of music through playing an instrument and on the more theoretical aspect of music reading, basic theory, song writing and history. Many students who already know how to play guitar or piano by ear and learn how to read music find this course especially useful.

COURSE DESCRIPTIONS - LIFE ROLES

CULINARY TECHNOLOGY 110 AND 120

These courses are double blocked. Students take them both during the same semester in a two-period block.

The Culinary Technology Program is designed to prepare students for employment and/or future education in the food service industry. This technology driven and skill-oriented program involves not only the "how and why" of food service preparation but focuses on the development of personal skills and knowledge that can be applied to the food service industry. Laboratory experimentation, food preparation and service are in integral part of this program.
It gives the students lifelong learning skills that may be transferable to future training and/or food services employment ant an advanced level.

HOSPITALITY AND TOURISM 110

The Hospitality/Tourism industry is identified in Canada and particularly in New Brunswick, as a rapidly growing industry. This course will provide students with lifelong learning skills that are transferable to future learning and/or the hospitality and tourism industry. The student will acquire career information, skill development and the talents for employment. This course relies on resource-based learning, practical experiences, access to resource people and information that will help the individual in his/her career choice. Topics include the four main sectors of the tourism industry, influences on the tourism industry, personal and interpersonal skills regarding career opportunities available, travel industry and marketing strategies.
This course will include a component of 10 hours service in the field of hospitality and tourism (i.e., dinner auction/dinner theatre, community events, etc.).

INDIVIDUAL AND FAMILY DYNAMICS 120 (FI)

This course is designed for the senior student who wants a practical day-to-day living course. The main theme is the study of human behavior and how the individual grows and matures with family and friends. Through an investigation of effective communication related to the quality of life, the course proposes to develop decision making skills in many and varied areas such as: personality development (views of Freud, Maslow, Piaget, Erickson, Kohlberg); interpersonal relationships - dating, courtship, marriage, separation, divorce; sex education - anatomy of the human reproductive system, contraception, pregnancy, genetics, child birth, abortion, and social diseases. There is particular emphasis given to those stages which include children, such as parenting and human development experiences; i.e., physical, intellectual, and psycho-social development. This Family Living course is an excellent introduction to further sociology, psychology, and medical studies as well as teaching, social work, and business.

COURSE DESCRIPTIONS - HEALTH AND PHYSICAL EDUCATION

PHYSICAL EDUCATION LEADERSHIP 120

This course is a "selected-elective" course for grade 12 students with special interest in utilizing physical activities to develop leadership skills which will enable them to translate these interests into dynamic personal involvement in their community. Students are required to apply for admission to the course, and applications are screened by a committee representing the physical education staff, the guidance staff and school administration.

This course requires a commitment to a minimum of 30 hours of out-of-class responsibilities in leadership, which may focus on sport or recreational activities or other forms of community services. This course consists of units in leadership theory, sports administration, teaching theory, officiating, coaching, and sports medicine.

HUMAN PHYSIOLOGY 110

This course should be selected by students who want to gain a general knowledge of the functioning of the human body. Major topics covered are nutrition, digestion, transport, nervous coordination, and reproduction. Some laboratory work is included as part of the course. Individual projects may also be assigned. Good study skills are an asset to prospective students.

NUTRITION FOR HEALTHY LIVING 120

This course offers a study of the significance of food; Canada's Food Guide, food facts, eating disorders, fallacies, fads, and habits. Special emphasis is given to the study of nutrients; how they work in the human body, identifying the best food sources of each nutrient, and recognizing the effects of using too little or too much of a nutrient. Nutrition for Healthy Living course is an excellent introduction to any student having an interest in making better food choices or who wishes to pursue a career in nutrition or dietetics.

OUTDOOR PURSUITS 110

This course can be offered in a double block with Environmental Science

In this course students will explore the outdoor environment in and around the Kennebecasis Valley. They will partake in various activities such as hiking and camping while learning more about their outside world. Students will learn many useful skills to pursue careers in outdoor activities. They will learn survival skills that will be useful for a lifetime.

WELLNESS THROUGH PHYSICAL EDUCATION 110

The goal of the *Wellness through Physical Education 110* curriculum is to promote healthy active living for life. Students will experience a variety of wellness activities and are expected to create and implement a personal healthy active living plan. The course is intended to allow a broad-based exploration of various dimensions of wellness and encourage a healthy, balanced lifestyle.

YOGA 110

This course introduces students to the ancient tradition of yoga in its various forms & styles. With its vast capacity to bring vibrant health to body, mind & emotions, the intention is for students to develop a lifelong personal practice of yoga, not only to maintain exceptional physical condition, but also to develop healthy relationships with self, others, and the earth.

COURSE DESCRIPTIONS - BUSINESS EDUCATION COURSES

BUSINESS ORGANIZATION AND MANAGEMENT 120

This course is designed for university preparatory students in their last year of high school. Students should gain an understanding of how the business system is managed in Canada; emphasis being placed on business problems as seen through the eyes of management. Projects, case studies and problem solving are a major part of the course. The major topics included are business ownership, small business management; the functions and problems of management; financial management and control; production; marketing procedures; business, government and society; and future careers in business.
Text: Canadian Business

CO-OPERATIVE EDUCATION 120

NOTE: To enroll in Co-operative Education, students entering Grade 12 must apply with references and are screened by an interviewing committee. Successful applicants will be those students who have achieved academically in subject areas relating to the specific field of business or industry they wish to explore. There is a limited enrollment in the course.

Co-operative Education is a two or three-credit course. Students will attend regular classes for a half day and report to their respective training stations for the other half. In addition to related theory classes, students will participate in a 12-week work placement in the community. The purpose of this program is to provide student with exploratory experiences in a variety of work roles while also fostering personal responsibility, self-reliance, and teamwork.

ENTREPRENEURSHIP 110

Entrepreneurship 110 is designed to help the student learn about the skills, abilities, and personal characteristics that are needed to become a successful entrepreneur, as well as develop their individual aptitudes, attitudes, and interests. The student will practice the techniques involved in accurately assessing opportunities, generating ideas, selecting, and evaluating ideas, and preparing carefully drawn up plans for putting these into action. Entrepreneurship 110 emphasizes the development of concepts rather than specific business skills. The course makes extensive use of case studies, and where possible, business simulations. The course will culminate in a Market project. Students will be required to develop a product and sell it at a school-based market.

INTRODUCTION TO ACCOUNTING 120

NOTE: This course is designed for students in their final year who are planning to attend university or community college.

The course includes the development and use of journals, ledgers, and related books of accounts as well as a computer accounting package. Basic accounting principles and concepts are discussed at some length to help students understand the conceptual framework of accounting. The preparation and use of the financial statements of proprietorships, partnerships and corporations are studies in some detail. This course is accepted as a university entrance (elective) credit for all programs at the University of New Brunswick.

OPTIONS OUTSIDE OF RHS

THE ASD-S IDEA CENTER

The **IDEA** (**I**nnovation, **D**evelopment, **E**ntrepreneurship and **A**ction) Centre for Enterprise is a program designed to develop student-led businesses. Students identify, research, and solve community problems through the vehicle of social enterprise and entrepreneurship. By delivering the curriculum in a dynamic community space called ConnexionWorks, the IDEA Centre provides a hub where students can safely interact with community partners so that their classwork grows into the community and bears the fruit of a positive community impact.

The program outcomes are designed to fill credit requirements for any two credits from the following courses: Co-op Education, Economics, Entrepreneurship, Business Management and Organization, Leadership.

Note: To enroll students in Grades 11 or 12 can apply online: http://www.ideacentresj.ca/

DISTANCE LEARNING

The province offers expanded learning opportunities to all students by allowing optional and/or advance level courses, which, because of illness or school scheduling, might not otherwise be available. In such an approach, distance facilitators use online course chat rooms, discussion boards, email, and videoconferencing to engage students in the learning process as well as to answer specific queries students may have. A list of these courses and descriptions may be found by logging on to http://www.gnb.ca/0000/as/dl-e.asp.

DRAFT COPY. Students are expected to choose 10 courses each year with two alternate courses in case their first choice is not available.

Note: English 10 and 11 courses are full year courses and make up two of your ten choices.

	Grade 10	Grade 11	Grade 12
1	English ___	English ___	English ___
2	English ___	English ___	
3	GMF 10/ Foundations		
4	NRF 10		
5	Social Studies 10		
6	French 10 (PIF or FILA)		
7			
8			
9			
10			
ALT			
ALT			

Items to use with your Homeroom Advisory Teacher and/or Guidance Teacher

8 Required Grad Credits		Post- Secondary Required Credits		Total Credits (18 required for GRAD)	
English 11 (2cr)		Program #1	Program #2	Year	# Of credits
English 12		1.	1.	2021-22	
Math #1		2.	2.	2022 -23	
Math #2		3.	3.	2023-24	
Mod Hist 11		4.	4.	5 Gr. 12 Credits	
Science 11		5.	5.	ELPA Passed?	
FALR		6.	6.		

FINAL COPY - Students are expected to choose 10 courses each year with two alternate courses in case their first choice is not available.

Note: English 10 and 11 courses are full year courses and make up two of your ten choices.

	Grade 10	Grade 11	Grade 12
1	English ___	English ___	English ___
2	English ___	English ___	
3	GMF 10		
4	NRF 10		
5	Social Studies 10		
6	French 10 (PIF or FILA)		
7			
8			
9			
10			
ALT			
ALT			

Items to use with your Homeroom Advisory Teacher and/or Guidance Teacher

8 Required Grad Credits		Post- Secondary Required Credits		Total Credits (18 required for GRAD)	
English 11 (2cr)		Program #1	Program #2	Year	# Of credits
English 12		7.	7.	2021-22	
Math #1		8.	8.	2022 -23	
Math #2		9.	9.	2023-24	
Mod Hist 11		10.	10.	5 Gr. 12 Credits	
Science 11		11.	11.	ELPA Passed?	
FALR		12.	12.		