**Harbour View High School**

**Grade 11 Registration Form**

**2021 – 2022**

Student: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

(Last Name) (First Name) (Middle Initial)

Student Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Parents Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Homeroom Teacher: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Students must select 10 credits. Credit values are given in the column to the right of each course name. Please read directions at the beginning of each section with care. Check your selected credits/courses in the column provided.**

**Students must select two additional courses to be used as the alternates should one of the original 10 selections not be possible. Indicate the courses to serve as your alternates by writing ALT in the check-box next to this course.**

**The total number of course selected should be 10 including the 2 alternates.**

**REACH BACK FOR GRADE 10**

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| --- | --- | --- |
| 🗸 | Course |  |
|  | English 10 A |  |
|  | English 10 B |  |
|  | [GMF 10 or FI GMF 10](#gmf" \o "Math : Geometry, Measurement and Finance 10Topics: Pythagorean Theorem, polygons, angles, trigonometric ratios, metric and imperial systems of measurement, surface area and volume, unit pricing, currency exchange, income( gross pay and net pay) , credit cards, loans, interest) |  |
|  | Post Intensive French 10 or FI LA 10 |  |
|  | Social Studies 10 or FI Social Studies 10 |  |

**LANGUAGES**

Students must pass a full year grade 11 English and one-semester grade 12 English to graduate.

Students preparing for AP English in grade twelve should select English 111 provided they have achieved a mark of 85% or higher in English 10.

ENGLISH 10 - \_\_\_\_\_%

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| 🗸 | Course | Credits |  |
|  | [English 111 / AP English Language](#Eng111AP" \o " English 111 + AP English Language (3 credits)This course is designed for students whose aptitudes and interests in language and literature are above average.  This full year, three credit courses will provide an enriched variety of experiences with language and texts to challenge and refine students’ competencies.  Greater range and depth of the English Language Arts English 11 curriculum plus more independent and interdependent experiences will accommodate students’ interests and talents. The AP English Language and Composition component cultivates the reading and writing skills that students need for college success and for intellectually responsible civic engagement. Students will become curious, critical, and responsive readers of diverse texts, becoming flexible, reflective writers of texts addressed to diverse audiences for diverse purposes. The reading and writing students do in the course should deepen their understanding of how written language functions rhetorically: to communicate writers’ intentions and elicit readers’ responses in particular situations.Prerequisite for English 111: 85% in English 10 Prerequisite for English 121: an English 111 credit or 80% in English 112) | 3 | [video](https://www.youtube.com/watch?v=8otNz8ZxGcg&t=253s) |
|  | [English 111 A/B and English 111 B/A](#Eng111121" \o " English 111 – 121 This pair of courses is designed for students whose aptitudes and interests in language/literature are above average.  These courses will provide an enriched variety of experiences with language and texts to challenge and refine students’ competencies.  Greater range and depth of the content plus more independent and interdependent experiences will accommodate students’ interests and talents.   Prerequisite for English 111: 85% in English 10 Prerequisite for English 121: an English 111 credit or 80% in English 112) | 2 |  |
|  | [English 112 A/B and English 112 B/A](#Eng112122" \o " English 112 – 122 This pair of courses is appropriate for students intending to pursue studies at a post-secondary institution.  Each of the English courses will provide a wide variety of experiences with literacy skills and writing formats.  English 112 will focus on argument, persuasion, fact and opinion, a Shakespearean play and other significant literary pieces; English 122 will concentrate on critical comprehension and evaluation skills of Canadian and world literature, including a Shakespearean play. Prerequisite for English 112: 60% in English 10 Prerequisite for English 122: an English 112 credit.) | 2 |  |
|  | [English 113 A/B and English 113 B/A](#Eng113123" \o " English 113 – 123 These courses are intended for students who do not plan to attend academic post-secondary institutions. English 113 and 123 provide a variety of experiences with language and texts to develop students’ competencies in thinking, reading, viewing, writing, listening and speaking.  High priority is given to comprehension and to effective written and oral communication. Students will concentrate on improving strategies for learning from literary, technical and media texts; practical and personal writing is stressed.  Prerequisite: English 10) | 2 |  |

**MATHEMATICS**

Students must pass GMF 10 plus 2 more math credit courses or NRF and Foundation 110 credits to meet graduation requirements.

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|  | **[FI](#FIfoundations" \o " French Immersion Foundations of Mathematics 11 This course is a prerequisite 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 prerequisite 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 and leasing and buying are explored and investment portfolios are analyzed. This is a prerequisite for Foundations of Mathematics 12 and a prerequisite or co-requisite for Pre-Calculus 11.)** [Foundation of Mathematics 110 (Prereq. NRF)](#FIfoundations" \o " French Immersion Foundations of Mathematics 11 This course is a prerequisite 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 prerequisite 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 and leasing and buying are explored and investment portfolios are analyzed. This is a prerequisite for Foundations of Mathematics 12 and a prerequisite or co-requisite for Pre-Calculus 11.) | 1 | [video](https://www.youtube.com/watch?v=YmwvNB4Q_Iw) |
|  | **FI** NRF (Numbers. Relations & Functions) | 1 |  |
|  | **[FI](#FIprecalc" \o " French Immersion Pre-Calculus 11 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 () 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. Prerequisite for Pre-Calculus 12A.)** [Pre-Calculus 110 (Prerequisite: Foundations of Math 110)](#FIprecalc" \o " French Immersion Pre-Calculus 11 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 () 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. Prerequisite for Pre-Calculus 12A.) | 1 | [video](https://www.youtube.com/watch?v=YmwvNB4Q_Iw) |
|  | [Financial & Workplace Mathematics 110 (Prereq.: GMF)](#finacial" \o " Financial and Workplace Mathematics 110 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.  Students have a choice of this course or Foundations of Mathematics 11 to complete graduation requirements. Prerequisites: GMF 10 (Also FI)) | 1 | [video](https://www.youtube.com/watch?v=YmwvNB4Q_Iw&t=173s) |
|  | [Foundations of Mathematics 110 (Prereq.: GMF & NRF)](#foundations" \o " Foundations of Mathematics 110 This course is a prerequisite 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 prerequisite 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. This is a prerequisite for Foundations of Mathematics 12 and a prerequisite or co-requisite for Pre-Calculus 11.) | 1 | [video](https://www.youtube.com/watch?v=YmwvNB4Q_Iw) |
|  | [Foundation of Math 120 (Prereq.: Foundations 110)](#foundations12" \o " Foundations of Mathematics 120  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.   Foundations of Mathematics 110 is a prerequisite for this course.) | 1 | [video](https://www.youtube.com/watch?v=YmwvNB4Q_Iw&t=40s) |
|  | NRF (Numbers, Relations & Function) | 1 |  |
|  | [Pre-Calculus 110 (Prerequisite: Foundations of Math 110)](#precalc11" \o "Pre-Calculus 110 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 () 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. Prerequisite: Pre-Cal. 12A) | 1 | [video](https://www.youtube.com/watch?v=YmwvNB4Q_Iw) |
|  | [Pre-Calculus A 120 (Prerequisite: Pre-Calculus 110)](#precalc12a" \o " Pre-Calculus A 120This course follows Pre-Calculus 110 and is a prerequisite for 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.   Prerequisite: Pre-Calculus 110 ) | 1 |  |
|  | [Pre-Calculus B 120 (Prerequisite Pre- Cal. A 120)](#precalc12b" \o " Pre-Calculus B 120   This course precedes Calculus 120.  Students analyze arithmetic and geometric sequences and series to solve problems. They learn to factor polynomials of degree greater than 2, 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  approaches a certain value using correct notation, analyze the continuity of a function and explore limits which involve infinity. Prerequisite: Pre-Calculus A 120) | 1 |  |

**HISTORY**

All students must pass Modern History or AP Seminar/World Issues in order to graduate. Students preparing for AP European History should take History 111. SOCIAL STUDIES 10 - \_\_\_\_\_\_%

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|  | [AP Seminar / World Issues (Prerequisite: 85% in English)](#APSemWI" \o " AP Seminar / World Issues 120AP Seminar/World Issues is a year-long 2 credit courses where students learn to conduct independent research involving advanced texts and media, synthesize information from multiple perspectives, and argue their point of view through written essays and team-based oral presentations. In the process, students engage with complex ideas and events shaping the world today. They learn about the unity and diversity of human experience; the interdependent systems that link humans to each other and the natural world, and the geopolitical tensions arising from competing rights and responsibilities on the local, national, and world stages. Ultimately, the course aims to empower students with the ability to evaluate information with accuracy and communicate evidence-based arguments. Prerequisite: English 9 – 85% or Teacher’s recommendation. ) | 2 | [video](https://www.youtube.com/watch?v=8otNz8ZxGcg&t=120s) |
|  | **[FI](#FIMH" \o " French Immersion Modern History 112 The goal of this course is to develop a deeper understanding of modern history’s influence on our perception of the world.  Refer to the course description in Modern History 112 for curriculum.)** [Modern History 112](#FIMH" \o " French Immersion Modern History 112 The goal of this course is to develop a deeper understanding of modern history’s influence on our perception of the world.  Refer to the course description in Modern History 112 for curriculum.) | 1 |  |
|  | [Modern History 111](#MH111" \o " Modern History 111This enriched course is an in-depth thematic study of major events in modern Europe history that have shaped the 21st century. Topics discussed include the French, Industrial, and Russian Revolutions, the rise of both the far right and left; Totalitarianism; the two world wars and the Cold War. Students may be called upon to make oral presentations and an in-depth essay analysis.) | 1 |  |
|  | [Modern History 112](#MH112" \o " Modern History 112 Modern History 112 follows the secularization of Western society with particular emphasis on the revolutions on the 19th and 20th centuries. Topics will include the French, Industrial and Russian Revolutions, the World Wars, the rise of Totalitarianism and the Cold War. Students may be called upon to make oral presentations or an in-depth essay analysis.) | 1 |  |
|  | [Modern History 113](#MH113" \o " Modern History 113Modern History 113 is designed to provide an understanding of the main events of the twentieth century, as well as some familiarity with basic skills used to interpret historical accounts. A survey approach is given to the following topics: World Geography, the revolutions of France, Industrialization, and Russia; rise of Totalitarianism, the two world wars and the Cold War.) | 1 |  |

**LIFE ROLE/PERSONAL DEVELOPMENT**

Students must earn one credit from this grouping **OR** one credit from the Applied Technology group for graduation. Students may choose additional courses from this group if they wish.

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|  | [Co-op 120 – morning (Application Required)](#coop" \o " Co-operative Education 120 (3 credits - application required)            (Contact: Humanities SPR) This course is available to grades 11 & 12 students. Preference is given to grade 12 students. Students who qualify are placed in a career, and as a result benefit from actual experience in the working world. The experience is worthwhile, and a sense of accomplishment is one of the greatest rewards. Regular class sessions are held in school in order to learn fundamentals of employment readiness and to allow students to evaluate their experiences through reflective study. A high degree of self-discipline proves essential in the students’ overall success.) | 3 | video |
|  | [Co-op 120 – afternoon (I. D. E. A )](#idea" \o " COOP 120 (2 credits) (Innovation Development Entrepreneurship Action (I.D.E.A) Students will gain experience through high levels of engagement as they work independently and in teams to research problems in their communities, develop social ventures and launch new initiatives to explore the entrepreneurial ecosystem while contributing positively to their communities.  Students will develop skills required to work in a business; as an owner, operator, innovator, community organizer, information analyst, marketing consultant, electronic commerce specialist, and be aware of the international and local economy. Through this new program, students will learn technical skills required to analyze market and community problems and opportunities, as well as to develop solutions that incorporate resources, community assets and technology effectively. Students will identify, research and address community problems through the vehicle of social enterprise and entrepreneurship.  The students’ work will be guided and accelerated by potential connections with community-based mentors such as Enterprise Saint John, Connexionworks, the Social Enterprise Hub, Junior Achievement, Brilliant Labs and many others.    This afternoon course takes place in downtown Saint John and counts for two credits towards graduation. ) | 2 | [video](https://www.youtube.com/watch?v=6NPfGRo_hzQ&t=139s) |
|  | [Co-op 120 (Mentorship Virtual) (Online)](#coopmentor" \o " COOP 120 (1 credit) (Mentorship Virtual Coop 120) This 1-period coop is for students who are highly motivated, and who can work with limited supervision and direction. Not all students will succeed in this environment. Students will be interviewed to find appropriate mentor. Supplemental resources have been developed online to assist in the delivery of the program. (For more details contact Mike Cusack (mike.cusack@gnb.ca).) | 1 |  |
|  | [Entrepreneurship 110](#entre" \o " Entrepreneurship 110                                 (Contact: Humanities SPR)                                This introductory course provides students with an opportunity to learn about and demonstrate entrepreneurial concepts, including gathering market research and speaking in front of an audience.  Entrepreneurship 110 includes the development and implementation of a business plan and a requirement to participate in an entrepreneurship market.  Students will develop an innovative product or service and attempt to sell it at a market that takes place near the end of the course.) | 1 | [video](https://www.youtube.com/watch?v=-SwnOUXKuT0&t=418s) |
|  | **[FI](#FIFamDyn" \o " French Immersion Individual and Family Dynamics 120 The overall aim of Individual and Family Dynamics 120 is to provide students with the necessary knowledge, skills, and abilities to meet the challenges of our dynamic and complex society. The course focuses on the development of resourcefulness to assist students in viewing the family from various perspectives and to make informed decisions about solutions to existing and emerging difficulties occurring in everyday living. The interrelatedness between family and work life is addressed as well as the need to understand better daily family issues and their impact on both the family and work environments. Ind. Family Dynamics 120 has been designed for students who plan to undertake further studies in this field and those who wish to expand their knowledge in the area of family studies.)** [Individual & Family Dynamics 120](#FIFamDyn" \o " French Immersion Individual and Family Dynamics 120 The overall aim of Individual and Family Dynamics 120 is to provide students with the necessary knowledge, skills, and abilities to meet the challenges of our dynamic and complex society. The course focuses on the development of resourcefulness to assist students in viewing the family from various perspectives and to make informed decisions about solutions to existing and emerging difficulties occurring in everyday living. The interrelatedness between family and work life is addressed as well as the need to understand better daily family issues and their impact on both the family and work environments. Ind. Family Dynamics 120 has been designed for students who plan to undertake further studies in this field and those who wish to expand their knowledge in the area of family studies.) | 1 | [video](https://www.youtube.com/watch?v=fGwaGq_6O4E) |
|  | [GGG (Goals, Growth & Grit: Skills for Success) 120](#ggg" \o "Growth Goals and GritThe course focuses on improving reading and writing skills,learning style identification,study skill strategies,career and vocational exploration and post secondary preparation.) | 1 |  |
|  | [Individual & Family Dynamics 120](#famdyn" \o " Individual and Family Dynamics 120 (Also FI)                                         (Contact: Humanities SPR)This course will expose students to the skills and information necessary to make informed decisions about personal development, lifestyle choices, and healthy relationships.  This curriculum will help prepare students to have a better understanding of themselves, their family and the world around them.  Topics to be considered include universality and uniqueness of families, the single person, alternate lifestyles, mate selection and marriage preparation, and social issues of concern to the family. The knowledge and skills presented in Individual and Family Dynamics 120 will benefit students who may wish to pursue fields of study such as: law enforcement, social services, family law, careers in counselling, psychotherapy and family medicine.) | 1 |  |
|  | [Music 111 (Instrumental Music)](#musius111" \o " Music 111                                                                                                    (Contact: Humanities SPR)This course is intended to further the study of music as initiated in the 9-10 programs. All students taking this course must play an instrument or sing at a level suitable to ensure success in the course. Students taking this course as a level 1 elective are expected to be at a performance level of Toronto Conservatory Grade 6. Level 2 students should be able to play at a Toronto conservatory Grade 4 level. In order to achieve success in the course, students must be able to play at least two solo pieces, as well as perform in ensemble. The course therefore will include solo and group instruction. Music history and theory are an important component of the course. Prerequisite: Toronto Conservatory Grade 3 (level 2), Grade 5 (Level 1), or successful completion of the Grade 9-10 program with the permission of the instructor.) | 1 | [video](https://www.youtube.com/watch?v=-SwnOUXKuT0&t=185s) |
|  | [Nutrition for Healthy Living 120](#nutrition" \o " Nutrition and Healthy Living 120This course is designed to make students aware of preventative strategies to contribute to overall wellness, make healthy food choices and maintain a balance between eating habits and physical activity.  Current issues related to chronic diseases, lifestyles, and food technologies will also be discussed. Students will be encouraged to use reliable information to examine their eating habits and lifestyle choices.) | 1 |  |
|  | [Outdoor Education 110 (Application Required, $125.00 fee)](#outdoorp" \o " Outdoor Education 110  (course fee $125 - application required)             (Contact: Athletic SPR)                  Outdoor Pursuits 110 provides opportunities for students to explore various outdoor adventure activities such as camping, kayaking, canoeing, backpacking, hiking, cross-country skiing, downhill skiing, snowshoeing, orienteering, and rock climbing.  From these experiences they will gain a greater insight, appreciation, concern and knowledge about the outdoor environment and the opportunities that it holds for educational, recreational, and economic benefit. Also throughout the course students will take part in many team-building activities and group problem solving initiatives, where students learn to communicate and support one another to reach their goals, improve self-esteem, develop leadership skills, develop strategies that enhance decision-making, and to respect the differences within a group. ) | 1 | [video](https://www.youtube.com/watch?v=-SwnOUXKuT0) |
|  | [PE Leadership 120](#PEleadership" \o " Physical Education Leadership 120                      (Contact: Athletic SPR) This course is designed to fill needs of the community with qualified volunteers. It is an elective course for students with a special interest in physical activities and healthful living, combined with a desire to develop leadership skills, which will enable them to translate their interests into dynamic personal involvement in the community. This course is not an activity course but a leadership course where leadership skills are taught and developed through activities. Activities include teaching classes, organizing intramural sports & class trips to local recreational facilities, coaching extra-curricular teams, and running designated tournaments during the semester.) | 1 | [video](https://www.youtube.com/watch?v=-SwnOUXKuT0&t=126s) |
|  | [Reading Tutor 120](#ReadTut" \o " Reading Tutor 120 In Reading Tutor 120, senior student tutors are paired with younger struggling readers.  In the theoretical portion of the course, tutors will be introduced to techniques and methods for teaching reading and writing strategies; in the practical portion, they will actually work with a weaker reader.  This course would be of particular interest for those students planning to enter the field of Education. ) | 1 | [video](https://www.youtube.com/watch?v=vLBuQc9A2LA&t=96s) |
|  | [Theatre/Dramatic Arts 120](#theatrearts" \o " Theatre/Dramatic Arts 120                                                                      (Contact: English SPR)This is a fun and exciting class where students study the history of theatre, costume, makeup, hair, movement, and play theatre games!  Mainly, this is a performance-based course in which students perform contemporary and classical monologues and work as an ensemble class towards producing a show. ) | 1 | [video](https://www.youtube.com/watch?v=-SwnOUXKuT0&t=294s) |
|  | [Visual Arts 110](#VA110" \o " Visual Arts 110                                                                                            (Contact: Humanities SPR)Visual Arts 110 builds on the techniques learned in Grades 9 and 10 Visual Arts, such as perspective drawing, paint application, and figure studies. This class begins with an in-depth study of portraiture in pencil, charcoal & chalk, paint, collage, and Papier Mache. The sketchbook is also an integral part of this course. After examining the lives of great artists such as Kahlo, Picasso, and Escher we explore print making, and painting (in a Cubist or Surrealist style). Prerequisite: Art 10) | 1 |  |
|  | [Visual Arts 120 (Prerequisite: Visual Art 110)](#VA120" \o " Visual Arts 120                                                                                      (Contact: Humanities SPR)This course is designed for students who wish to investigate art-related interests or careers. The concepts developed in the grade 11 course are enhanced. This course features a series of projects that develop students’’ skills on an advanced level, in drawing, painting, printmaking and sculpture.  Prerequisite: Visual Arts 110) | 1 |  |
|  | [Wellness Through Physical Education 110](#wellness" \o " Wellness through Physical Education 110                            (Contact: Athletic SPR) The goal of this course is to promote healthy active living for life, and intended to encourage a broad-based exploration of a variety of activities, highlighting non-traditional approaches to fitness and wellness (e.g. yoga, hiking, ultimate frisbee, personal training, Tai Chi). The course will be for students who have successfully completed Grade 9/10 Physical Education and Health and wish to personalize their learning by researching, self-assessing and determining personal preferences for engaging in lifelong physical activity. Students will apply knowledge of fitness and wellness concepts to the creation of a personal healthy active living plan.  ) | 1 | [video](https://www.youtube.com/watch?v=-SwnOUXKuT0&t=159s) |

**SCIENCE**

All students must earn one Science credit to graduate. Students are encouraged to take additional science courses – especially those who are thinking of attending college or university programs related to Science, Engineering, or Health Sciences. We encourage students to take extra courses from this group.

SCIENCE 10 - \_\_\_\_\_\_\_\_%

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|  | [Advanced Environmental Science 120](#APEnviro" \o " Advanced Environmental Science 120The goal of this course is to provide students with opportunity to explore the scope of environmental science and how it links to other disciplines and will apply their science literacy skills to environmental issues.  Students will explore different perspectives, and different world views of the environment and examine how this affects policies, legislation, cultural perspective, economics and community aspects which impact on these issues. Students will describe the biodiversity and the natural dynamics of terrestrial, aquatic and human community systems, both what a healthy ecosystem looks like, and the issues relating to human interaction with the ecosystem. They will be expected to assess the risks associated with these problems and to examine solutions for resolving and/or preventing them. Students will also be required to demonstrate personal appreciation of, stewardship of and advocacy for the environment, and will be challenged to engage others in environmental inquiry. Prerequisite: Biology 111-112 or Chemistry 111-112 or Introduction to Environ. Science 120 or Physical Geography 110) (Prerequisite:  Bio or Chem 11 or Intro Enviro Science or Physical Geography 11) | 1 | video |
|  | [AP Biology (Prerequisite: Biology 121)](#APBiology" \o " AP Biology This course is designed to be equivalent to an introductory college course for science majors. Passing the AP exam may qualify students for credit at many colleges. It is assumed that all students enrolling in AP Biology have successfully completed Biology 111 and Biology 121 with a high degree of proficiency (mark of 75%). Taking introductory chemistry before or during AP Biology is also very helpful.) | 1 | video |
|  | [AP Chemistry (Prerequisite: Chemistry 121)](#APChem" \o " AP Chemistry This course is designed to be the equivalent of the general chemistry course usually taken during the first university year. For some students, this course enables them to undertake, as freshmen, second-year work in the chemistry sequence at their institution or to register for courses in other fields where general chemistry is a prerequisite.  It is assumed that all students enrolling in AP Chemistry have successfully completed Chemistry 111 and Chemistry 121 with a high degree of proficiency (mark of 75%).) | 1 | video |
|  | [AP Environmental Science (Prerequisite : Adv Environmetnal Science or Bio. 12 + Chem. 12)](#APEnvirosci" \o " AP Environmental Science  The goal of this course is to provide students with the scientific principles, concepts, and field techniques to understand the interconnectedness of the natural world.  Students will be expected to identify and analyze naturally occurring and anthropogenic environmental problems.  They will be expected to assess the risks associated with these problems and to examine solutions for resolving and/or preventing them.  Prerequisite: Advanced Environmental Science 120 or permission from the Science SPR.) | 1 | [video](https://www.youtube.com/watch?v=ycTD9nBYPSw&t=7s) |
|  | [AP Research (Prerequisite: AP Seminar)](#apresearch" \o " AP Research This course is designed to allow students to explore deeply an academic topic, problem, or issue of individual interest.  Through this exploration, students design, plan, and conduct a research investigation to address a research question.  Students further their skills acquired in the AP Seminar course by understanding research methodology; employing ethical research practices; accessing, analyzing, and synthesizing information as they address a research question. The course culminates in an academic paper of 4000-5000 words and a presentation with an oral defense. Prerequisite:  AP Seminar) | 1 | [video](https://www.youtube.com/watch?v=8otNz8ZxGcg&t=163s) |
|  | [Biology 111](#bio111" \o " Biology 111This course covers the same topics as the Biology 112 course (see below) but in greater detail. It is geared for students with a greater interest in biology, those who are looking to further their education in biology and those interested in the AP Biology course. There will be an increased emphasis on evolution and evolutionary trends seen in living organisms. Intensive lab work and dissections are a significant part of Biology 111. Prerequisite:  75% in Science 10) | 1 |  |
|  | [Biology 112](#bio112" \o " Biology 112This introductory biology course covers a variety of topics. Students will begin with a review of the plant and animal cell. Cellular processes are then examined followed by an examination of the classification system. Representative organisms are looked at from each Kingdom as well as viruses.  The second half of the course focuses on the human body. Topics include the digestive, circulatory, endocrine and nervous systems. Lab work and dissections are an important part of this class. Prerequisite: Grade 10 Science.) | 1 |  |
|  | [Biology 121 (Prerequisite: Biology 111)](#bio121" \o " Biology 121The topics covered include ecological issues, genetics, biotechnology and evolutionary theories. Students who have successfully completed Biology 111 will be prepared to take this course. This course is a prerequisite for AP Biology.) | 1 |  |
|  | [Biology 122 (Prerequisite: Biology 112)](#bio122" \o " Biology 122This course looks at cellular biology and the impact of the electron Microscope. The biochemistry of the cell physiology, which includes DNA action, cellular respiration and photosynthesis, is considered beyond the introductory level. Human anatomy and physiology using a homeostasis theme is considered. This section is confirmed through the dissection of a fetal pig. Students who have had Biology 112 and some chemistry will feel comfortable in this course. Prerequisite: Biology 112) | 1 |  |
|  | [Chemistry 111](#chem111" \o " Chemistry 111This course is recommended for students who are interested in pursuing a career in science or engineering at the university level.  Students who choose this course should have a genuine interest and superior skills in mathematics. Students considering AP Chemistry must take this course. Prerequisite:  75% in Science 10) | 1 |  |
|  | [Chemistry 112](#chem112" \o " Chemistry 112Topics in this course include an introduction to atomic theories, naming elements and compounds, chemical reactions, gases, solutions, stoichiometry and chemical bonding.  There is a significant lab component to this course. Prerequisite:  Science 10) | 1 |  |
|  | [Chemistry 121 (Prerequisite: Chemistry 111)](#chem121" \o " Chemistry 121This course follows Chemistry 111.  Topics include chemical bonding, energy involved in phase, chemical and nuclear changes, organic chemistry and acid/base chemistry.  There is a significant lab component to this course.  Students considering AP Chemistry must take this course. Prerequisite:  Chemistry 111) | 1 |  |
|  | [Chemistry 122 (Prerequisite: Chemistry 111/112)](#chem122" \o " Chemistry 122This course follows Chemistry 112.  Topics include chemical bonding, energy involved in phase, chemical and nuclear changes, organic chemistry and acid/base chemistry.  There is a significant lab component to this course. Prerequisite:  Chemistry 112) | 1 |  |
|  | **[FI](#FIBio112" \o " French Immersion Biology 111 This course covers the same topics as the Biology 112 course (see below) but in greater detail.  It is geared for students with a greater interest in biology, those who are looking to further their education in biology and those interested in the AP Biology course.  There will be an increased emphasis on evolution and evolutionary trends seen in living organisms.  Intensive lab work and dissections are a significant part of Biology 111. Prerequisite:  75% in Science 10)** [Biology 111](#FIBio112" \o " French Immersion Biology 111 This course covers the same topics as the Biology 112 course (see below) but in greater detail.  It is geared for students with a greater interest in biology, those who are looking to further their education in biology and those interested in the AP Biology course.  There will be an increased emphasis on evolution and evolutionary trends seen in living organisms.  Intensive lab work and dissections are a significant part of Biology 111. Prerequisite:  75% in Science 10) | 1 |  |
|  | **[FI](#FIBio111" \o " French Immersion Biology 112 This introductory biology course covers a variety of topics.  Students will begin with a review of the plant and animal cell.  Cellular processes are then examined followed by an examination of the classification system.  Representative organisms are looked at from each Kingdom as well as viruses.  The second half of the course focuses on the human body.  Topics include the digestive, circulatory, endocrine and nervous systems.  Lab work and dissections are an important part of this class.   Prerequisite:  Grade 10 Science)** [Biology 112](#FIBio111" \o " French Immersion Biology 112 This introductory biology course covers a variety of topics.  Students will begin with a review of the plant and animal cell.  Cellular processes are then examined followed by an examination of the classification system.  Representative organisms are looked at from each Kingdom as well as viruses.  The second half of the course focuses on the human body.  Topics include the digestive, circulatory, endocrine and nervous systems.  Lab work and dissections are an important part of this class.   Prerequisite:  Grade 10 Science) | 1 |  |
|  | [Human Physiology 110](#humphy" \o " Human Physiology 110 The goal of this course is to build an understanding of the physiology of the human body as a complex dynamic organism that is self-contained but impacted by and responsive to the outside world.  Throughout the course students will build their scientific literacy skills as they learn to navigate the information provided on human health and human body systems.  By the end of this course, students will have developed a holistic personal wellness plan, demonstrating their understanding of overall health, human physiology, and the effect of disease and lifestyle choices) | 1 | [video](https://www.youtube.com/watch?v=ycTD9nBYPSw&t=84s) |
|  | [Introduction Environmental Science 120](#envsci" \o " Introduction to Environmental Science 120The objective of this introductory course is for students to develop the knowledge base and skills for investigating and analyzing environmental issues and for communicating their knowledge and analysis to others. Students will investigate population growth and resource limitations, ecology of natural systems, historical and current approaches to the environment, and sustainability of natural environments. They will explore the interconnectedness of natural ecosystems and human dependence and impact on these systems. They will recognize the importance of considering environmental, social, cultural and economic aspects of an issue to find solutions. Students will complete a research project on a current issue and present their findings and will further explore this and other environmental issues through various methods of inquiry.) | 1 | [video](https://www.youtube.com/watch?v=ycTD9nBYPSw&t=43s) |
|  | [Physical Geography 110](#pg" \o " Physical Geography 110This course has two main components: maps and physical processes. The first component introduces skills that are basic to a geographer’s use of topographic maps. The physical landscape section includes Plate Tectonics, earthquakes, volcanoes, mountain ranges, mountain building, continental drift, groundwater, and wind. This course can be used as a science credit.) | 1 | [video](https://www.youtube.com/watch?v=ycTD9nBYPSw&t=172s) |
|  | [Physics 111](#physics111" \o " Physics 111This course follows the same content as Physics 112 (see below) but in greater depth.  Students considering taking AP Physics must take this course. Prerequisite:  Grade 10 Science) | 1 | [video](https://www.youtube.com/watch?v=ycTD9nBYPSw&t=233s) |
|  | [Physics 112](#physics112" \o " Physics 112This is a course which will be valuable for students interested in medical, engineering, technician, electrical and construction careers, as well as those who are curious about the world around them. The course covers the areas of waves (light and sound), motion, forces, work and energy. There is a strong practical component drawing on experimental and problem-solving skills. Prerequisite:  Grade 10 Science) | 1 | [video](https://www.youtube.com/watch?v=ycTD9nBYPSw&t=233s) |
|  | [Physics 121 (Prerequisite: Physics 111)](#physics121" \o " Physics 121This course will build upon the key principles introduced in Physics 111. The course follows the same content as Physics 122 but in greater depth.  Students considering taking AP Physics must take this course. Prerequisite:  Physics 111) | 1 | [video](https://www.youtube.com/watch?v=ycTD9nBYPSw&t=233s) |
|  | [Physics 122 (Prerequisite Physics 111/112)](#physics122" \o " Physics 122This course will build upon the key principles introduced in Physics 112.  Students will examine motion in two dimensions, projectiles, circular motion, force fields and electricity. As in grade 11 there is an emphasis on critical thinking and application of the material covered to everyday problems and engineering. Prerequisite:  Physics 112) | 1 | [video](https://www.youtube.com/watch?v=ycTD9nBYPSw&t=233s) |

**FRENCH IMMERSION**

French Immersion students must complete FI Language Arts 110 in grade 11 and FI Language Arts 120 during grade 12. Please indicate if you were an **Early or Late** Immersion student by checking correct box.

French Immersion students must complete **five FI credit courses to graduate with their FI Certificate.**

|  |  |  |
| --- | --- | --- |
|  | **[FI](#FILA11" \o " French Immersion Language Arts 110 Students will focus on written and oral communication skills. Students will be required to read novels, give oral and written presentations based on a variety of subject areas. Prerequisite: F.I. Language Arts 10)** [(](#FILA11" \o " French Immersion Language Arts 110 Students will focus on written and oral communication skills. Students will be required to read novels, give oral and written presentations based on a variety of subject areas. Prerequisite: F.I. Language Arts 10)**[Early)](#FILA11" \o " French Immersion Language Arts 110 Students will focus on written and oral communication skills. Students will be required to read novels, give oral and written presentations based on a variety of subject areas. Prerequisite: F.I. Language Arts 10)** [Language Arts 110 (Compulsory)](#FILA11" \o " French Immersion Language Arts 110 Students will focus on written and oral communication skills. Students will be required to read novels, give oral and written presentations based on a variety of subject areas. Prerequisite: F.I. Language Arts 10) | 1 |
|  | **[FI (Late)](#FILA11" \o " French Immersion Language Arts 110 Students will focus on written and oral communication skills. Students will be required to read novels, give oral and written presentations based on a variety of subject areas. Prerequisite: F.I. Language Arts 10)** [Language Arts 110 (Compulsory)](#FILA11" \o " French Immersion Language Arts 110 Students will focus on written and oral communication skills. Students will be required to read novels, give oral and written presentations based on a variety of subject areas. Prerequisite: F.I. Language Arts 10) | 1 |

**ELECTIVE COURSES**

Students need a total of 18 credits to graduate. Compulsory courses for grade 11 were described on the front of this registration form. The additional credits may come from any of the categories previously listed or from the elective courses on this side of the form.

**BUSINESS**

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| --- | --- | --- | --- |
|  | [Accounting 120](#accounting" \o " Accounting 120                                                                                   (Contact: Mathematics SPR)                                This course introduces students to accounting procedures, concepts, and applications. Course topics include the nature of business transactions, various careers associated with financial management, bookkeeping procedures, accounting theory, the accounting cycle, and financial statement analysis.  The course is designed for those students intending to study business at post-secondary institutions.  Students who register for this course should have felt comfortable completing their previous math courses.) | 1 | [video](https://www.youtube.com/watch?v=6NPfGRo_hzQ) |
|  | [Business Organization and Management 120](#bom" \o " Business Organization & Management 120                                        (Contact: Humanities SPR)This course focuses on ways in which organizations deal with issues affecting their competitiveness in a changing technological and global business environment. Students will study issues such as financial literacy, ethics in business, business environments, management functions, and employee motivation. Students will develop critical thinking and problem-solving skills needed to excel in post-secondary learning and understand/practice the leadership and management skills required to enhance New Brunswick small business enterprise. ) | 1 | [video](https://www.youtube.com/watch?v=6NPfGRo_hzQ&t=86s) |
|  | [Co-op 120 (I. D. E. A )](#idea" \o " CO-OP (2 credits)(I.D.E.A.)                                                                      (Contact: Humanities SPR) Students will gain experience through high levels of engagement as they work independently and in teams to research problems in their communities, develop social ventures and launch new initiatives to explore the entrepreneurial ecosystem while contributing positively to their communities.  Students will develop skills required to work in a business; as an owner, operator, innovator, community organizer, information analyst, marketing consultant, electronic commerce specialist, and be aware of the international and local economy. Through this new program, students will learn technical skills required to analyze market and community problems and opportunities, as well as to develop solutions that incorporate resources, community assets and technology effectively. ) | 2 | [video](https://www.youtube.com/watch?v=6NPfGRo_hzQ&t=139s) |

**ENGLISH ELECTIVE COURSES**

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|  | [Canadian Literature 120](#CanLit" \o " Canadian Literature 120 Canadian Literature 120 involves the study of a variety of literary genres from past eras to present day.  Through the study of selected poems, novels, essays, and plays students will become more aware of our unique style and heritage.  This course is open to all students in grades eleven or twelve, but will appeal most to those who like to read, discuss issues, and have a genuine interest in how writers reflect our identity.) | 1 |  |
|  | [English 110 (EAL students only)](#Eng110" \o " English 110 This English course is an Additional Language (EAL) course designed for students entering High School whose first language is not English.  This course provides a variety of experiences to help students acquire beginner/intermediate skills in reading/writing as well as listening/speaking.) | 1 |  |
|  | [Journalism 120](#journ" \o " Journalism 120 This is a course designed for students who want to learn more about newspaper publishing, effective communication skills, and proper journalistic writing style.  Students in this course gather information, write articles, and edit them for the possibility of publication.  Students will also utilize creative skills in photography, design and layout, and learn about journalistic ethics. Prerequisite: English 10) | 1 | [video](https://www.youtube.com/watch?v=vLBuQc9A2LA) |
|  | [Media Studies 120](#Media" \o " Media Studies 120 This course examines different forms of communication and their impact on the individual and society. The course focuses heavily on class discussions, group work and in-depth examination of various topics associated with Media. Students will learn to recognize the unique attributes of several forms of media and their distinct effects. They will investigate such issues as media ownership, public access, gender issues in advertising, and media literacy to name a few. Students will also examine various media sources/examples to detect inherent strengths and weaknesses like the promotion of humanitarianism, or political propaganda. For their final summative assessment, students will be required to construct their own media product utilizing digital media editing software (GIMP 2.0, Photoshop). Tutorials on how to use the available software will be given. ) | 1 |  |
|  | [Reading Tutor 120](#ReadTut" \o " Reading Tutor 120 In Reading Tutor 120, senior student tutors are paired with younger struggling readers.  In the theoretical portion of the course, tutors will be introduced to techniques and methods for teaching reading and writing strategies; in the practical portion, they will actually work with a weaker reader.  This course would be of particular interest for those students planning to enter the field of Education. ) | 1 | [video](https://www.youtube.com/watch?v=vLBuQc9A2LA&t=96s) |
|  | [Writing 110](#writing" \o " Writing 110  Writing 110 provides an opportunity for motivated students to hone their writing skills by taking part in a variety of writing activities including, but not limited to, creative non-fiction, fiction, and poetry. Students will have the opportunity to share their work with each other in a workshop setting. Students will participate in NaNoWriMo, writing the first draft of a novel.  Student work will be assessed throughout the course and culminate in a portfolio.) | 1 | [video](https://www.youtube.com/watch?v=vLBuQc9A2LA&t=61s) |

**FRENCH**

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|  | **[FI](#FIFamDyn" \o " French Immersion Individual and Family Dynamics 120 The overall aim of Individual and Family Dynamics 120 is to provide students with the necessary knowledge, skills, and abilities to meet the challenges of our dynamic and complex society. The course focuses on the development of resourcefulness to assist students in viewing the family from various perspectives and to make informed decisions about solutions to existing and emerging difficulties occurring in everyday living. The interrelatedness between family and work life is addressed as well as the need to understand better daily family issues and their impact on both the family and work environments. Ind. Family Dynamics 120 has been designed for students who plan to undertake further studies in this field and those who wish to expand their knowledge in the area of family studies.)** [Individual & Family Dynamics 120](#FIFamDyn" \o " French Immersion Individual and Family Dynamics 120 The overall aim of Individual and Family Dynamics 120 is to provide students with the necessary knowledge, skills, and abilities to meet the challenges of our dynamic and complex society. The course focuses on the development of resourcefulness to assist students in viewing the family from various perspectives and to make informed decisions about solutions to existing and emerging difficulties occurring in everyday living. The interrelatedness between family and work life is addressed as well as the need to understand better daily family issues and their impact on both the family and work environments. Ind. Family Dynamics 120 has been designed for students who plan to undertake further studies in this field and those who wish to expand their knowledge in the area of family studies.) | 1 | [video](https://www.youtube.com/watch?v=fGwaGq_6O4E) |
|  | **[FI](#wellness" \o " Wellness through Physical Education 110                            (Contact: Athletic SPR) The goal of this course is to promote healthy active living for life, and intended to encourage a broad-based exploration of a variety of activities, highlighting non-traditional approaches to fitness and wellness (e.g. yoga, hiking, ultimate frisbee, personal training, Tai Chi). The course will be for students who have successfully completed Grade 9/10 Physical Education and Health and wish to personalize their learning by researching, self-assessing and determining personal preferences for engaging in lifelong physical activity. Students will apply knowledge of fitness and wellness concepts to the creation of a personal healthy active living plan.  )** [Wellness Through Physical Education 110](#wellness" \o " Wellness through Physical Education 110                            (Contact: Athletic SPR) The goal of this course is to promote healthy active living for life, and intended to encourage a broad-based exploration of a variety of activities, highlighting non-traditional approaches to fitness and wellness (e.g. yoga, hiking, ultimate frisbee, personal training, Tai Chi). The course will be for students who have successfully completed Grade 9/10 Physical Education and Health and wish to personalize their learning by researching, self-assessing and determining personal preferences for engaging in lifelong physical activity. Students will apply knowledge of fitness and wellness concepts to the creation of a personal healthy active living plan.  ) | 1 | [video](https://www.youtube.com/watch?v=-SwnOUXKuT0&t=159s) |
|  | **[FI](#FIWI" \o " French Immersion World Issues 120 This course examines issues that are global in nature and will require a global solution. Students must stay abreast of ‘breaking news’ as it affects the relationship amongst all the players in the global community. Students will deconstruct how topical challenges have been faced in the past, and what viable solutions are needed for their generation. Students will be involved in active forms of discussion such as debate, role-playing, seminar presentation and peer evaluation.   Prerequisite: Grade 11 FI Modern History )** [World Issues 120](#FIWI" \o " French Immersion World Issues 120 This course examines issues that are global in nature and will require a global solution. Students must stay abreast of ‘breaking news’ as it affects the relationship amongst all the players in the global community. Students will deconstruct how topical challenges have been faced in the past, and what viable solutions are needed for their generation. Students will be involved in active forms of discussion such as debate, role-playing, seminar presentation and peer evaluation.   Prerequisite: Grade 11 FI Modern History ) | 1 | [video](https://www.youtube.com/watch?v=fGwaGq_6O4E&t=51s) |
|  | [Post Intensive French 110](#PIF11" \o " Post Intensive French 110 This course extends the range of language skills, structures and concepts for effective communication in French in a variety of situations.  It is designed for students who have successfully completed French 10. Students who wish to broaden the scope of their communicative skills in the second official language are excellent candidates for this course. Daily oral participation and individual and/or group presentations are required during this course.Prerequisite: PI French 10 or 75% or higher to take level one. ) | 1 |  |
|  | [Post Intensive French 120 (Prerequisite: PI French 110)](#PIF12" \o " Post Intensive French 120 The goals of the course are to broaden the second language students’ oral and written communications skills.  A variety of project work, novels, newspaper articles and oral presentations are included in this course. All grade twelve French Second language students will participate in the oral interview, which will be evaluated by the Department of Education. Students will receive a certificate indicating their rating of proficiency according to the N.B. proficiency scale. Prerequisite: PI French 110.) | 1 |  |

**APPLIED TECHNOLOGY**

Students must earn one credit from this grouping **OR** one credit from the Life Role/Personal Development group for graduation. Students may choose additional courses from this group if they wish.

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|  | [Culinary Tech 110 (Course Fee $10.00)](#cultech11" \o " Culinary Technology 110                                                              (Course Fee $10.00)This course is an introduction to the food service industry. Through participation in different experiences within a quantity food service, the student learns both to master skills through practice and to become familiar with the required qualities for employment.  Some areas to which the students are exposed include personal hygiene, sanitation, safety precautions, time management, the basic principles of food preparation, and the importance of serving nutritious and appetizing meals. ) | 1 | [video](https://www.youtube.com/watch?v=t8jFisIjyf4) |
|  | [Culinary Tech 120 (Prerequisite: Culinary Tech 110)(Fee $10.)](C:\\Users\\ashley.vautour\\Downloads\\how" \l "cultech12" \o " Culinary Technology 120                                                             (Course Fee $10.00)This course 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 ) | 1 | [video](https://www.youtube.com/watch?v=t8jFisIjyf4) |
|  | [Culinary Tech 110/120 (](#cultech1112" \o " Culinary Technology 110/120 (2credits)                                        (Course Fee $20.00)Is an intensive 2 credit course encompassing course material from Culinary 110 and Culinary 120.  Students will learn the theory and practical application of the following: basics of safety and sanitation, baking, meat cookery, starch cookery and vegetables. Students will be required to perform class presentations and demonstrations.  Upon the completion of this course, students will have the skills and knowledge to create, prepare and serve, restaurant quality, meals. This course would benefit students wishing to enter the culinary field. To prevent the spread of food borne illness and disease, Culinary Technology students must have excellent personal hygiene (no fake or gel nails allowed). In addition to this, students will be required to taste a variety of foods so fussy eaters may not want to take this course.  )**[2 periods in one sem.](#cultech1112" \o " Culinary Technology 110/120 (2credits)                                        (Course Fee $20.00)Is an intensive 2 credit course encompassing course material from Culinary 110 and Culinary 120.  Students will learn the theory and practical application of the following: basics of safety and sanitation, baking, meat cookery, starch cookery and vegetables. Students will be required to perform class presentations and demonstrations.  Upon the completion of this course, students will have the skills and knowledge to create, prepare and serve, restaurant quality, meals. This course would benefit students wishing to enter the culinary field. To prevent the spread of food borne illness and disease, Culinary Technology students must have excellent personal hygiene (no fake or gel nails allowed). In addition to this, students will be required to taste a variety of foods so fussy eaters may not want to take this course.  )**[) (Fee $20)](#cultech1112" \o " Culinary Technology 110/120 (2credits)                                        (Course Fee $20.00)Is an intensive 2 credit course encompassing course material from Culinary 110 and Culinary 120.  Students will learn the theory and practical application of the following: basics of safety and sanitation, baking, meat cookery, starch cookery and vegetables. Students will be required to perform class presentations and demonstrations.  Upon the completion of this course, students will have the skills and knowledge to create, prepare and serve, restaurant quality, meals. This course would benefit students wishing to enter the culinary field. To prevent the spread of food borne illness and disease, Culinary Technology students must have excellent personal hygiene (no fake or gel nails allowed). In addition to this, students will be required to taste a variety of foods so fussy eaters may not want to take this course.  ) | 2 | [video](https://www.youtube.com/watch?v=t8jFisIjyf4) |
|  | [Framing & Sheathing 110](#frameshea" \o " Framing and Sheathing 110This course will provide students with skills and knowledge associated with the framing-in or shell construction of typical single-family dwellings. Students will participate in construction and planning activities with safety as the overriding theme. Activities include such things as measurement, tool identification and use, blueprint reading, material selection, estimating and layout, which culminate in the construction of a shed or similar structure. The course is taught using both theory and practical work and each are allocated approximately the same amount of class time. Students are required to have a pair of CSA certified steel toed work boots. If this is not feasible, arrangements can be made on an individual basis to accommodate the student. Students are also expected to work outside in the elements and be prepared to do so. ) | 1 | [video](https://www.youtube.com/watch?v=t8jFisIjyf4&t=306s) |
|  | [Introduction to Electronics 110](#introelec" \o " Introduction to Electronics 110What is going on inside my amplifier or radio or computer? This course will help to answer that question and introduce students to the skills and knowledge required to pursue post-secondary learning in electrical/electronic and computing fields. The course is recognized as a Science or a Technology credit towards graduation. The course presents basic theory and circuitry including components such as resistors, inductors, capacitors, transformers and diodes and explains when and how they can be used in practical applications. Introduction to Electronics 110 will be valuable to students with an interest in engineering or technology careers as well those with a hobbyist interest.   Prerequisite: Grade 10 mathematics (GMF10/NRF 10)) | 1 | [video](https://www.youtube.com/watch?v=t8jFisIjyf4&t=138s) |
|  | [Metal Fabrication 110 (Welding)(Course Fee $40.00)](#metfab110" \o " Metals Fabrication 110                                                                       (Course Fee $40.00)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 and oxyacetylene welding and cutting processes. Machines and processes used to lay out, cut and form sheet metal are also introduced. This course will appeal to students interested in entering occupations in metal working, mechanical technology, mechanical service and primary resource industries. Warning - Electromagnetic fields and high frequency voltages generated by the various types of welding equipment can cause interference with cardiac pacemakers or other implanted electro medical devices. Talk with welding teacher for any further questions or concerns. ) | 1 | [video](https://www.youtube.com/watch?v=t8jFisIjyf4&t=40s) |
|  | [Welding/Metal Fabrication 120) (Fee $40.00)](#metfab120" \o " Metals Fabrication 120       (Course Fee $40.00)This course is intended to continue development of skills in the SMAW, GMAW, OFG and PAC welding and cutting processes, with the GTAW process being introduced. The students will be introduced to advanced welding positions and has a capstone project. This course will appeal to students interested in entering occupations in metal working, mechanical technology, mechanical service and primary resource industries. Warning - Electromagnetic fields and high frequency voltages generated by the various types of welding equipment can cause interference with cardiac pacemakers or other implanted electro medical devices. Talk with welding teacher for any further questions or concerns. ) | 1 | [video](https://www.youtube.com/watch?v=t8jFisIjyf4&t=40s) |
|  | [Metals Processing 110 (Course Fee $20.00)](#metpro11" \o " Metals Processing 110                                                                        (Course Fee $20.00) This course is a study of standard machine shop processes used in the manufacture of metal products. Proper operating instructions will be given on a variety of machine tools common to the machine shop trade. Students will apply theory as well as develop practical skills through the production of practical projects. Instructional time of the course will benefit and appeal to those students in pursuing a career in the metals processing areas, those who are considering a future education in mechanical engineering or drafting technology areas, and those who would like to explore this area for personal interest or career guidance reasons.) | 1 | [video](https://www.youtube.com/watch?v=t8jFisIjyf4&t=84s) |
|  | [Metals Processing 120 (Prerequisite: Metals 110) (Fee $20.00)](#metpro12" \o " Metals Processing 120                                                                     (Course Fee $20.00)This is a continuation of Metals Processing 110. During this course students will complete specific projects while practicing operations such as threading, taper turning, and sheet metal work.  This course would be of interest to those students wishing to pursue careers in Mechanical Engineering, Drafting, Machinist, and Tool and Die maker, Welder and Sheet Metal Worker.Prerequisite: Metals Processing 110 ) | 1 | [video](https://www.youtube.com/watch?v=t8jFisIjyf4&t=84s) |
|  | [Mill & Cabinet 120 (Course Fee ($30.00)](#millcab" \o " Mill and Cabinet Work 120                                                         (Course Fee $30.00)This is a woodworking course in which students will develop the necessary skills, knowledge, and work habits required construct cabinets and other miscellaneous millwork typically found in residential dwellings.  Students, through a series of projects, will be involved with all aspects of mill work including planning, measuring, estimating, operation of woodworking equipment and machines and finish operations.  The course is taught using both theory and practical work and each are allocated approximately the same amount of class time. This course will be of benefit to those students interested in entering the construction or woodworking occupations as well as those with a general interest in woodworking. Required Lab Fee in the amount of $30.) | 1 | [video](https://www.youtube.com/watch?v=t8jFisIjyf4&t=395s) |
|  | [Residential Finish & Insulation 120 (Prereq.: Fram. & Sheath)](#resfin" \o " Residential Finish and Insulation 120This course examines the work required to finish a family dwelling once it has been framed. Each of the following topics covered in the course emphasize safety. Topics include insulation, interior wall cladding, crack filling, door, window and trim installation as well as painting. Students will study these topics both in theory and through project work and each are allocated approximately the same amount of class time. This course should be of interest and value to those students interested in pursuing a career related to the construction industry. Students are required to have a pair of CSA certified steel toed work boots. If this is not feasible, arrangements can be made on an individual basis to accommodate the student. Students are also expected to work outside in the elements and be prepared to do so. Prerequisite: Framing & Sheathing 110) | 1 | [video](https://www.youtube.com/watch?v=t8jFisIjyf4&t=372s) |

**SOCIAL SCIENCES**

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|  | [AP European History 120 (Prereq:85% in Mod.Hist. 111)](#APEurohist" \o " AP European History In this course students will do independent, analytical and critical research using primary sources. A strong writing background and ability to do work on one’s own is needed. AP will give students an opportunity to take a university level course. Prerequisite: 85% in Modern History 111 or FI Modern History 11) | 1 | video |
|  | [AP Psychology 120 (Prerequisite: Psychology 120)](#APPysch" \o " AP Psychology Explore the ideas, theories, and methods of the scientific study of behavior and mental processes. You’ll examine the concepts of psychology through reading and discussion and you’ll analyze data from psychological research studies. Skills you will learn connecting psychological concepts and theories to real-life scenarios, understanding and interpreting data, and analyzing research studies in psychology.  Prerequisite: Psychology 120 or permission from English and Humanities SPRs. ) | 1 | video |
|  | [Canadian Geography 120](#cangeo" \o " Canadian Geography 120Canadian Geography 120 is the study of the ever-changing cultural and physical landscapes of Canada and how they impact on each other. It examines physical systems and interrelates these with human-made structures and systems. It focuses on environmental issues. Geographic understandings and skills are integrated throughout the course.) | 1 |  |
|  | [Child Studies 120](#childstudies" \o " Child Studies 120This course is designed for students who plan to undertake further studies in this or related fields, and those students who wish to expand their knowledge of the developing child. The course has three purposes: 1. to help students develop an intellectual and emotional understanding of children; 2. to help gain personal skills for participating with children; and 3. to develop in students the learning skills they will need in order to be successful in their relationships with children.) | 1 |  |
|  | [Economics 120](#econ" \o " Economics 120This is an elective course that provides a general overview of the way our economic system works. It is designed to develop an understanding of the concepts and techniques needed in making economic decisions, and to develop an awareness of the major economic problems and issues of the day. The course also provides some experience in the application of economic knowledge, concepts, and techniques.) | 1 | [video](https://www.youtube.com/watch?v=LsJa-wG6uAE&t=199s) |
|  | [Hospitality and Tourism 110 (Computer based)](#hosandtour" \o " Hospitality and Tourism 110 (Computer based)This course creates an appreciation for the Maritimes, particularly New Brunswick. Through exploration of careers, concepts, trends and marketing, this course develops an understanding of the tourism industry and the skills needed to work in this field.) | 1 |  |
|  | [Indigenous Studies 120](#indstudies" \o " Indigenous Studies 120This course is designed to discuss and deconstruct the history, culture and conflicts of the First Nation peoples across Canada. Issues of today are examined. Prerequisite: Grade 11 Modern History ) | 1 | [video](https://www.youtube.com/watch?v=LsJa-wG6uAE&t=138s) |
|  | [Law 120](#law" \o " Law 120 This course is designed to give students knowledge of Canadian law, changes in Canadian Law caused by changes in the written law, as well as changes caused by court decisions, and the major changes the constitution has brought about. Areas of study include the Origins of the Canadian Legal System, Criminal law, Torts/Civil law, Family Law, and Wills and Estates. In all areas the Charter of Rights and Freedoms and Human Rights Legislation is considered.  Actual case studies are used to illustrate situations within these areas of law. ) | 1 | [video](https://www.youtube.com/watch?v=LsJa-wG6uAE&t=103s) |
|  | [Nutrition for Healthy Living 120](#nutrition" \o " Nutrition and Healthy Living 120This course is designed to make students aware of preventative strategies to contribute to overall wellness, make healthy food choices and maintain a balance between eating habits and physical activity.  Current issues related to chronic diseases, lifestyles, and food technologies will also be discussed. Students will be encouraged to use reliable information to examine their eating habits and lifestyle choices.) | 1 |  |
|  | [Political Science 120](#polisci" \o " Political Science 120This course will introduce students to some of the political philosophers responsible for the systems of government found around the world today. Through contrasting many of these systems, the merits of each will be compared and contrasted to the Canadian system. Prerequisite: Grade 11 Modern History ) | 1 | [video](https://www.youtube.com/watch?v=LsJa-wG6uAE) |
|  | [Sociology 120](#soc" \o " Sociology 120  This dynamic course tries to answer the question of why we behave the way we do. It is the systematic study of human society and social interaction and focuses on how humans behave in and are influence by groups.  Some aspects of psychology as well as cultural anthropology will be examined.  Units of study include: The Sociological Perspective; Culture; Racism, Stereotypes and Prejudice; and Socialization. ) | 1 |  |
|  | [World Issues 120](#WI" \o " World Issues 120  This course examines issues that are global in nature and that require a global solution. The concept of the global village is studied, as is the relationship between nations as players in the global community. Students will deconstruct how challenges have been faced and seek solutions for the coming generation. Prerequisite: Grade 11 Modern History ) | 1 | [video](https://www.youtube.com/watch?v=LsJa-wG6uAE&t=73s) |

**COURSES UNIQUE TO HARBOUR VIEW**

Please bear in mind that only **two** locally developed course found in this section may count towards graduation requirements (within the 18 credits required to graduate) and that it may not replace a compulsory course.

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|  | [Engineering Technology 110](#engtech" \o " Engineering Technology 110 (1 credits)                     (Contact: Technology SPR)This course will be of interest to any students interested in pursuing a career in the engineering field [Professional or Engineering Technologist]. The course consists of a two-period block. Approximately half the time will be spent on Computer Aided Design [common to all engineering programs] and the other half will be spent exploring topics related to engineering. Topics will include: types of Engineering, types of work done, entrance requirements, job demographics, guest speakers from mature and recent graduates, and research projects. ) | 1 | [video](https://www.youtube.com/watch?v=91xaQkPV2Rc) |
|  | [Forensic Science 120 (Prerequisite: Science Credit)](#Forsci" \o " Forensic Science 120 (Introduction)                    (Contact: Science SPR)This course has been designed as an introduction to the scientific principles and techniques behind the work of forensic scientists.  Students will be required to apply scientific skills from a variety of disciplines (biology, geology, chemistry, and physics) to specific crime scene scenarios.  This will require collaboration, problem solving skills and the development of strong communication skills.  Students will also explore advancements in technologies such as DNA fingerprinting, blood spatter analysis, blood typing, and bone fragment analysis. Prerequisite: Science credit) | 1 | [video](https://www.youtube.com/watch?v=91xaQkPV2Rc&t=132s) |
|  | [Human Anatomy 120 (Prerequisite: Biology 112/111)](#humant" \o " Human Anatomy 120                                                                     (Contact: Science SPR)This course will explore beyond the basics of the systems of the human body (Bio 11 & 12) and delve into the medical aspects associated with each.  It will explore the design of the human body in substantial detail.  This course will provide an introduction to educational content associated with pre medicine, the health sciences, and even animal sciences. Prerequisite:  Biology 111 or 112) | 1 | [video](https://www.youtube.com/watch?v=91xaQkPV2Rc&t=172s) |
|  | [Mandarin 120 (Chinese Language)](#mandarin" \o "Mandarin 120 (Local Option) Mandarin120 focus on Chinese language and culture experience. After one semester's of learning, students can speak and read Chinese at a basic level, and know some Chinese traditions, education, food, and history. Besides language learning, this course will also organize some cultural activities, such as Tai Chi teaching, Chinese food cooking etc. ) | 1 |  |
|  | [Marine Biology 120 (Prerequisite: Biology 112/111)](#marinebio" \o " Marine Biology 120                                                                                          (Contact: Science SPR)The marine environment and more particularly the local dynamics of such ecosystems will be studied. Those organisms that make these areas their habitat will be researched and those related factors that impact upon them ill also be studied through lecture, laboratory work and hands-on lab activities. Further discovery will take place during a field trip to St. Andrew's Huntsman Marine Science Centre. How these environments are impacted by other environmental 'forces' will also be a major focus, as well as study of other marine ecosystems such as coral reefs. Prerequisite: Biology 111 or 112  ) | 1 | [video](https://www.youtube.com/watch?v=91xaQkPV2Rc&t=273s) |
|  | [Photography 120 (Course fee: $10.00)](#photo" \o " Photography 120 (Course Fee - $10.00)                                                   (Contact: Humanities SPR)This course is designed to serve as an introductory to digital photography.  In this course, students will learn about the function and capabilities of dslr cameras, photography techniques and styles, as well as editing and post processing techniques using adobe Photoshop.  In addition to this, students will learn about the history of photography focusing on famous photographers and their influences on society.  Emphasis will be placed on artistic expression as well as photo and editing techniques.   ) | 1 | [video](https://www.youtube.com/watch?v=91xaQkPV2Rc&t=326s) |
|  | [Popular Music 120 (History of Rock and Roll)](#popmusic" \o " Popular Music 120                                                                                       (Contact: Humanities SPR)This course will cover the major styles of popular music from the 1950’s to the present, from rhythm and blues to hip hop, from Elvis Presley to The Beatles to Eminem. The course will examine the musical elements, major artists, and social, political, and economic aspects related to each style and era in popular music. Some of the styles cover as well as the respective artists include: Rhythm and Blues, Country and Western, Pop Rockabilly, Folk, Rock, Fusion, Disco, Rap, Punk, Grunge, Motown, and Alternative.) | 1 | [video](https://www.youtube.com/watch?v=91xaQkPV2Rc&t=467s) |
|  | [Psychology 120 (Introduction)](#psych" \o " Psychology 120                                                                                          (Contact: Humanities SPR)This introductory course will offer students an engaging look at the science of psychology. Psychology is the scientific study of behavior and mental processes. We will explore a variety of topics including the history of psychology, important thinkers, the brain structure, the conscious experience and more. Prerequisite: AP Psychology.) | 1 | [video](https://www.youtube.com/watch?v=91xaQkPV2Rc&t=507s) |
|  | [Writing 120 (Prerequisite: Writing 110)](C:\\Users\\ashley.vautour\\Downloads\\–" \l "writing12" \o " Writing 120                                                                                                    (Contact: English SPR)Writing is 10% inspiration and 90% perspiration.) | 1 | [video](https://www.youtube.com/watch?v=vLBuQc9A2LA&t=61s) |
|  | [Yoga 110](#yoga" \o " Yoga 110                                                                                                           (Contact: Athletics SPR)This course will introduce students to the ancient tradition of yoga in its various forms and styles. The main outcome of this course is to develop healthy relationships with self, others and the earth.  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 and others.  Yoga 110 consists of research and activities both in oral and written form.  There will be self-assessments, creative writing, asana practice and postures, discussions self-reflection and journal writing. Students are expected to have appropriate clothing for the practice of yoga for this course.  The purchase of a yoga mat is not necessary but is recommended.) | 1 | [video](https://www.youtube.com/watch?v=91xaQkPV2Rc&t=654s) |
|  | [Young Adult Literature 120](#youngadult" \o " Young Adult Literature 120                                                                              (Contact: English SPR)Do you LOVE to read?  YAL is dedicated to bringing the joy back to reading. This course will appeal to avid readers who enjoy introspective writing and lively discussion. We will take a look at some of the most popular genres in YA literature: dystopian, realistic, supernatural, novels written in verse etc. But mostly we read for FUN! ) | 1 | [video](https://www.youtube.com/watch?v=91xaQkPV2Rc&t=699s) |

**TECHNOLOGY**

Information Technology 120, Hospitality & Tourism, and BBT 10 outcomes satisfy the Computer Literacy requirements however through other course work a student may demonstrate Computer Literacy skills to meet Provincial Guidelines. Students may choose additional courses from this group if they wish.

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|  | [Computer Aided Design 110](#CAD110" \o " Computer Aided Design 110This is an introductory course designed to give students a solid base of knowledge and skill in the drafting area. Through various activities, including sketching and computer assisted drawing (CAD), students gain the skills necessary both to visualize and present ideas graphically. In CAD 110, students will have the opportunity to experience drafting using 2D and 3D computer applications as well as learning about 3D printing. As use of this form of graphic communication is so universal, this course would be of interest and benefit to a wide range of students beyond those pursuing a career specifically in the drafting industry or technology/engineering areas.) | 1 | [video](https://www.youtube.com/watch?v=w_fKqrChx1g) |  |
|  | [Computer Science 110](#comsci110" \o " Computer Science 110This is a course designed to introduce the student to the process of developing a structured approach to writing computer instructions using a high-level language.  Students will learn programming concepts using the Python language.  The course is intended to develop problem-solving skills, logical-thinking skills, organizational skills and teamwork approaches. This course is a desired prerequisite for Computer Science 120.) | 1 | [video](https://www.youtube.com/watch?v=w_fKqrChx1g&t=131s) |  |
|  | [Computer Science 120](#comsci120" \o " Computer Science 120    Computer Science 120 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.) | 1 | [video](https://www.youtube.com/watch?v=w_fKqrChx1g&t=131s) |  |
|  | [Cybersecurity 120](#cyber" \o " Cybersecurity 120The Cybersecurity 120 course will inspire students through the experiential learning of the fundamentals and possibilities of cybersecurity. In this course, students will be actively engaged in the design, development and evaluation of defensive cybersecurity projects, including awareness, concepts and challenges. Topics will include networks, vulnerabilities, malware, access control, privacy and encryption.) | 1 | [video](https://www.youtube.com/watch?v=w_fKqrChx1g&t=189s) |  |
|  | [Digital Production 120](#digprod" \o " Digital Production 120Digital Production 120 offers students opportunities to produce different forms of media including websites, digital imaging, audio and video production. Students will also explore ethical issues surrounding media production and consumption, copyright and the appropriate use of copyrighted materials.) | 1 | [video](https://www.youtube.com/watch?v=w_fKqrChx1g&t=306s) |  |
|  | [Information Technology 120](#infotech" \o " Information Technology 120This course introduces students to technical applications necessary to build proficient IT skills. Students will learn, in-depth, the major components of Microsoft Office, including: Word, Excel, Access, Publisher and PowerPoint.  With a focus on the communication of information, this course will explore a number of technical ideologies that will give the student the ability to analyze, synthesize and evaluate situations at home, school or work. ) | 1 |  |  |
|  | [Robotics & Automated Technology 120](#robotics" \o " Robotics & Automated Technology 120  This course introduces students to the skills and knowledge required to pursue further studies in the robotics field.  This course is designed for students who are interested in a technical or engineering career. Three main disciplines—computer science, electronics, and engineering—interrelate in robotic technology concepts.  Students will be involved with the assembly of components in order to build a robot.  Automated or robotic technology will be explored through experimentation, including hands-on and programming of robotic devices.  Students will work to create automatic or robot-operated systems that model concepts used in industry.) | 1 | [video](https://www.youtube.com/watch?v=w_fKqrChx1g&t=254s) |  |

**NOTES**

* Students must have a minimum of 85% in prerequisite courses to take level one or AP.
* To upgrade to level two English or Math a student must complete level three with a minimum of 75%.
* Requirements for graduation may not meet the entrance requirements for university or college. Students should see a guidance counselor regarding requirements for specific programs before completing this form.

**GRADUATION REQUIREMENTS**

* Modern History 11 or AP Seminar/World Issues
* English 11 (2 credits)
* English 12 (1 credit)
* Math 11 (2 credits)
* One Science credit
* One Life Role/Personal Development credit
* Computer Literacy
* Five grade 12 credits
* 18 credits in total

**List courses in order of preference:**

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**VP/Guidance Signature: \_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_**

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