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Graduation Requirements for the New Brunswick High School Diploma

1. Completion of Grade 9/10 Program

Meet the requirements of the prescribed common curriculum of the grade 9/10 program as outlined in the *Grades 9/10 Companion Document*. These courses are prerequisites for credits taken during grades 11 and 12.

2. English Language Proficiency Assessment (ELPA)

Successful completion on the reading and writing components of the ELPA in grade 9 is required. A reassessment in grades 11 and 12 is available to students who have not achieved a successful rating on the reading and/or writing components.

3. Completion of 17 grade 11 and 12 credits

This includes seven compulsory and ten elective credits; minimum of five credits must be at the grade 12 level. All courses are single credit unless otherwise noted. Some students will complete a grade 11/12 credit during grade 10. The seven compulsory credits available at HTHS are:

English English 11 - 2 credits, full year, and English 12

Math Financial and Workplace Mathematics 110 or
Foundations of Mathematics 110

History Modern History 11

Science Physics 112, Biology 112, Human Physiology 110, Chemistry 112, Introduction
to Environmental Science 120, Automotive Electrical Systems 120

Fine Arts/Life Role Development

Visual Arts 110/120, Music 111/112/113, Music 120, Music 122, Creative (Fine) Arts 110, Dramatic (Theatre) Arts 110/120, Graphic Art and Design 110, Individual and Family Dynamics 120, Co-op Ed 120, Career Explorations 110, Outdoor Education 110, Physical Education Leadership 120, Wellness Through Physical Education 110, Entrepreneurship 110, Nutrition and Healthy Living 120, Goals, Growth and Grit 120, Culinary Technology 110/120, Electrical Wiring 110, Fashion Design 120, Fashion Technology 110, Framing and Sheathing 110, Housing and Interior Design 120, Internal Combustion Engines 110, Introduction to Applied Technology 110, Metals Fabrication 110, Metals Processing 110/120, Mill and Cabinet Work 120, Residential Finish 120

4. Electives Ten (10) in total

Reference: New Brunswick Department of Education, Policy 316

Gathering Information about Careers and Education after High School

Not sure where to find information about careers that interest you? Visit My BluePrint!

Next stop: learning about university and college programs. When researching the various educational institutions' websites, look for words like *admissions*, *prospective students*, *recruitment*, *future applicants* and *new students* to help navigate and learn about programs, admissions requirements, fee tables and application procedures.

First step is to make an account: go to www.myblueprint.ca/anglophoneeast
Select sign up from the top options. This will lead you through some drop-down menus to make the account.

It is highly suggested to look at the support page for further "how to's". There are tutorials, videos, webinars, and other supports. You do not need an account set up for these supports. You can also download documents for support from here.
www.myblueprint.ca/support



Essential Skills Achievement Pathway



The Essential Skills Achievement Pathway (ESAP) Program is an opportunity for students to earn a high school diploma that prepares them for a post-secondary education, apprenticeship or the world of work. The program consists of personalized learning opportunities that allow students to explore their skills, talents, abilities and interests while intentionally attaining the 9 federally identified Essential Skills. Proficiency in these skills are demonstrated and evaluated through problem and project based learning in the essential skills classroom, content specific courses, community experiential learning and work place opportunities. The ESAP program prepares students for the current skills based economy as well as future work, learning and life.

This is a program that is available by application. The program starts for students in the second semester of their grade 10 year.

Pathways for UNIVERSITY

Wondering which high school courses are required for university acceptance? Canadian universities require a minimum of **five (sometimes six)** grade 12 courses. **English 121/122 is always required.** Remember, admission requirements vary among institutions so confirm requirements with the university's website. Having at least one additional university acceptable grade 12 credit beyond the required five or six is strongly recommended.

Faculty: Required Courses	Examples of Majors	ADMISSION DETAILS
Bachelor of Arts – B.A.		<p>Universities will accept French Immersion credits as equivalents to those listed above.</p> <p>What if a university required course is scheduled second semester of grade 12?</p> <p>The universities will look at the grade 11 version of that course as a predictor for performance in the grade 12 course.</p>
	History, English, Gender Studies, Languages, Philosophy, Political Science, Sociology, Psychology, Criminology, Classics, Anthropology	
Bachelor of Commerce – B.Com. / Business Administration – B.B.A.		
	Accounting, Finance, Marketing, Management, Entrepreneurship, Humans Resource Management, International Business, Economics	
Bachelor of Computer Science – B.C.S.		
	Hardware, Information, Theory & Computation, Geographic Information, Software Development, Software Engineering, E-Commerce, Telecommunications, Security, Graphics, Gaming	
Bachelor of Engineering – B.Eng.		
	Chemical, Civil, Electrical, Computer, Environmental, Industrial, Geodesy & Geomatics, Mechanical, Geological	
Bachelor of Fine Arts – B.F.A.		
	Drawing, Painting, Photography, Printmaking, Sculpture, Textiles, Jewelry, Ceramics, Fashion, Art History, Art Education	
Bachelor of Kinesiology – B.Kin.		
	Sports Psychology, Exercise Physiology, Human Movement, Health Promotion and Wellness, Recreation & Sport Studies	
Bachelor of Music – B.M.		
	Theory & Composition, Music History & Literature, Music Education, Opera, Jazz, Performance (e.g. instrument)	
Bachelor of Nursing – B.N.		
	Completion of BN qualified graduated to write the National License Examination required for professional licensing.	
Bachelor of Science – B.Sc.		
	Biology, Chemistry, Biochemistry, Environmental Science, Marine Science, Mathematics, Physics, Computer Science, Forestry, Earth Sciences, Health Sciences	

UNIVERSITY TERMS DEFINED

Programs generally require four years of study; students enter a **faculty** (e.g. sciences, arts, music, etc.). During second year students select a **Major**, which means 50% of courses are in one subject area. Sometimes students will have a **Minor** where 25% of courses are in one subject area. In a **Bachelor's** (or Undergraduate) **degree**, students may learn job ready skills and directly enter the workforce (e.g. B.N., B.Eng.) or further their education to earn professional qualifications, e.g. pharmacist, teacher, dentist. **Master's degree** follows a Bachelor's and is also known as a Graduate degree.

WANT TO EARN CREDITS AND GAIN WORK EXPERIENCE?

Not certain what you'd like to do after high school? **Cooperative Education 120** allows students to earn credits (2 or 3), while gaining valuable job experience and career exposure, taken in grade 12. Apply second semester of grade 11.

INTERESTED IN COMBINING COLLEGE AND UNIVERSITY PROGRAMS?

University Transfer or **Articulation Agreements** or **2 + 2 Programs** are formalized agreements between universities and colleges that allow students to combine the college and university studies and graduate with a Bachelor's degree.

Pathways for COLLEGE

College education develops skills and qualifications that lead directly to the work force. A **Diploma** is awarded following 1 or 2 year(s) of study.

Employment Sector & Related Programs		Important to Know
Animal Care	Veterinary Assistant, Veterinary Technician, Pet Groomer, Horse Trainer, Wildlife Conservation, Dog Trainer	Always check with college websites to confirm specific program requirements! It's important to research programs that may offer similar training but have different admission requirements.
Business & Office Administration	<u>Business:</u> Accounting & Payroll, Insurance & Risk Management, Investment Management, Management, Marketing, Human Resources, International <u>Office:</u> Medical, Executive, Bilingual, Legal	
Environment & Energy Systems	Wind Turbine Technician, Gas Technician, Environmental Engineering Technology, Energy Sustainability, Geographic Services (Cartography, Community & Environmental Planning, Geographic Info Systems, Remote Sensing Technology), Marine (Navigation, Engineering), Natural Resources, Environmental Technology, Fisheries & Aquaculture, Utility Line Technician	
Expressive Arts	Animation, Graphic Design, Digital Photography, Costume Design, Theatre Production, Performing Arts (Music, Dance, Theatre), Recording Arts, Journalism (Broadcast, Radio, Production), Video Game Design	How to Apply Public Colleges <ul style="list-style-type: none"> • Application form • Fee (\$25 - 60) • Transcript Private Colleges Interested students are often encouraged to make an appointment with meet with an admissions representative to determine if the program is right for you.
Health & Wellness	<u>Health:</u> Health Information Management, Medical Laboratory Assistant and Technician, Dental Assistant, Dental Hygiene, Support Worker, Pharmacy Technician, Practical Nurse, Primary Care Ambulance, Occupational Assistant, Physiotherapy Assistant <u>Wellness:</u> Cosmetology & Esthetics, Golf Club Management, Sport & Leisure Management	
Hospitality & Tourism	Cook, Culinary Arts, Culinary Arts Management, Pastry Arts, Event Management, Hotel & Restaurant Operations, International Travel	
Social & Protective Services	<u>Social:</u> Sign Language Interpreter, Youth & Child Care, Early Childhood Education, Education Assistant, Human Services, Funeral Services <u>Protective:</u> Police Foundations, Corrections, Fire Fighter, Sheriff / Public Safety Officer, Conservation Enforcement	Admission Requirements Many college programs accept a high school diploma (e.g. completion of the required 17 credits) while others require specific courses. Some examples: <ul style="list-style-type: none"> • Practical Nurse: science(s) • Business: math(s) • Technology: Math(s) and science(s) Grade 12 English Either English level 2 <u>or</u> 3 is acceptable for many college programs.
Technology	<u>Civil Engineering:</u> Architectural, Building Systems, Construction Management, Highway & Municipal, Structural, Civil Technical <u>Electrical Engineering Technology:</u> Alternate Energy Systems, Commercial & Industrial Systems, Communication Systems <u>Information Technology:</u> Business Analysis, Game Design, Gaming Experience Development, Network Administration, Network Support, Programmer Analyst, Mobile Application Development, Information Systems, Database Application, Web Programming, Library IT, Health Information Management	
Trades	<u>Construction:</u> Bricklaying, Building Maintenance & Repair, Cabinetmaking, Carpentry, Heritage Carpentry, Electrician, Floor, Installer, Fuels Technician, Landscaper, Plumber, Heating &, Ventilation Technology, Refrigeration & AC Technician <u>Metals Processing:</u> CNC Machining, Machinist, Sheet Metal Fab, Welding, Welding & Metal Fab, Welding Technology, Steamfitting & Pipefitting, Commercial Diving (Welder) <u>Transportation:</u> Pilot, Truck Driver, Aircraft Engineer (Avionics, Mechanical, Structural, Gas Turbine Engine Repair), Flight Attendant <u>Vehicle Repair:</u> Heavy Equipment, Diesel, Motorcycle, Agricultural, Body Repair & Painter, Car Mechanic	

PUBLIC COLLEGES

Offer a wide selection of many programs in many campus locations. Regional institutions include *New Brunswick Community College* (6 campuses), *Nova Scotia Community College* (14 campuses), *Holland College* (8 campuses across PEI), and *New Brunswick College of Craft & Design* (Fredericton). Public colleges receive funding from the government therefore have lower tuition fees.

NEW BRUNSWICK COMMUNITY COLLEGE (NBCC) is the publicly supported college system offering one and two year programs at six campuses across the province. The majority of these programs can be started following high school graduation. The programs offered through NBCC reflect anticipated labour needs in the coming years within the province. Admissions requirements for many programs is high school diploma, other programs require specific math and science courses. Please consult nbcc.ca for more information. In addition to NBCC, students can explore programs offered at Holland College (hollandcollege.com) located in Prince Edward Island and Nova Scotia Community College (nsc.ca).

PRIVATE COLLEGES

Sometimes called *Career* or *Vocational* colleges, feature a huge variety of programs that often focus on one or two employment sectors. Examples of Moncton area colleges include *Oulton*, *Eastern*, *Jon Raymond*, *McKenzie*, *Medes*, *Medavie HealthEd.*. Fees tend to be higher because tuition must cover all operating expenses; these are private businesses and do not receiving funding from the government.

MAKING THE DECISION TO APPLY

- Talk to students currently enrolled in college and/or university (and their parents!) about the program of interest.
- Test drive the program by visiting the campus and seeing the program first hand. Post-secondary institutions – colleges and universities – encourage students to participate in a ***Student for a Day*** program. High school students can attend classes, meet with professors and current students, talk with admissions advisors and visit campus facilities. Visit the post-secondary institution's website for sign-up information.
- Ensure that admissions requirements are met!
- Educational institution must be the right “fit” for the student, e.g. location, type of campus, size. Do you see yourself at that PSE institution as a successful, happy student?

HOW TO APPLY TO POST-SECONDARY EDUCATION

1. Application Form (online)
2. Application Fee \$40-60
3. Official Transcript (mailed or emailed directly from HTHS to the PSE institution)
4. Depending on program, sometimes a portfolio, audition, written statement, etc. may be required.

Note: Remember university and college acceptance is ***conditional*** until graduation is confirmed and June final marks are received by the college or university.

Certificates

FOCUS ON TECHNOLOGY (FIT)

The ***Focus on Information Technology*** (FIT) program is a nationally recognized certificate that is issued by Information and Communications Technology Council.

Students are required to take

- Information Technology 120,
- Business Organization and Management 120, and
- at least one elective course consisting of Entrepreneurship 110, Cybersecurity and Technology Support 110, Computer Science 110, and Digital Production 120.

Graduates of the FIT program will have the benefit of a certificate to help distinguish themselves to employers and academic institutions.

The FIT certificate will be awarded with five different levels of certification.

- FIT Basic (courses only),
- FIT with experience (Co-op education, paid work, or volunteer experience of at least 200 hours),
- FIT with certification (IT Essentials, CompTIA A+, Microsoft Office Specialist),
- FIT with experience and certification, and
- FIT Plus (All requirements for FIT plus an additional industry standard including Cisco CCENT, Java, CompTIA Network+, or Microsoft Office Specialist).

FRENCH IMMERSION CERTIFICATES

To graduate as an Immersion student recognized by the province of New Brunswick, students must take a required number of FI designated courses. 50% of the course load in grade 9 and 10 must be FI designated. They must also take a minimum of five (5) courses with an F.I. designation in grades 11 and 12.

Students may also receive a ***Bilingual Language Certificate*** upon graduation. To receive this certificate, students must pass an oral interview with an interviewer appointed by the Province.

Course Selection & Career Planning

Use the following forms and charts to track progress and plans for the future.

Future career and job ideas:

Post-secondary ideas and plans for college and/or university:

*Remember that grade 9 and 10 *courses* are prerequisites for grade 11 and 12 *credits*. Unless noted, all grade 9 and 10 courses are one semester in length

Mark Earned (if completed)	Grade 9	Mark Earned (if completed)	Grade 10
%	English 9 – full year	%	English 10 – full year
%	Math 9 – full year	%	Math 10: <i>Geometry, Measurement & Finance 10</i> <i>Numbers, Relations & Functions 10</i>
%	Science 9 / F.I. Full Semester – 90 hours	%	Science 10 / F.I. Full Semester – 90 hours
%	P.I.F. / F.I.L.A. 9 Full Semester – 90 hours	%	P.I.F. / F.I.L.A. 10 Full Semester – 90 hours
%	Social Studies 9 / F.I. Full Semester – 90 hours	%	Social Studies 10 / F.I. Full Semester – 90 hours
%	Broad Based Tech. 9 Full Semester – 90 hours	%	Personal Development and Career Planning 10: _____ Full Semester – 90 hours
%	Health & Phys. Ed. 9 Full Semester- 90 hours	%	Music 10: _____ Full Semester – 90 hours
%	Visual Arts 9 Full Semester – 90 hours	%	Grade 11 Elective specify:

Meeting High School Diploma Requirements

Track your marks for each course taken in Grade 11/12 in the following chart to ensure you have the credits required for graduation with the New Brunswick High School Diploma.

Mark Earned (if completed)	Grade 11	Mark Earned (if completed)	Grade 12
%	English 11 <i>Compulsory</i> Full year Select one: 111 or 112 or 113	%	English 12 <i>Compulsory</i> Select one: 121 or 122 or 123
%	Math 11 <i>Compulsory</i> Select one: <i>Financial and Workplace Mathematics 11</i> or <i>Foundations of Mathematics 11</i>	%	Elective specify:
		%	Elective specify:
%	Modern History 11 <i>Compulsory</i> Select one: 112 or 113 or FI 112	%	Elective specify:
%	Science <i>Compulsory</i> specify:	%	Elective specify:
%	Life Role <i>Compulsory</i> .	%	Elective specify:
%	Elective specify:	%	Elective specify:
%	Elective specify:	%	Elective specify:
%	Elective specify:	%	Elective specify:
%	Elective specify:	%	Elective specify:
Total Credits Earned	Grade 10	+ Grade 11	+ Grade 12

Complete listing and description of all credit courses

ARTS & MUSIC	Prerequisite	Post-Secondary Considerations	Special Notes
Fashion Design 120 This course focuses on Fashion with emphasis placed on fabric drawing, fashion illustration, clothing design, and clothing creation. Students will also research famous fashion designers and will complete an independent project designing patterns, clothing or fashion based on what they have learned in the course.		<i>Fulfills Fine Arts/Life Role Development Compulsory Requirement</i>	Midterm and final are practical and hands on.
Fashion Technology 110 This course focuses on making clothing. Topics include: Basic sewing, using a pattern, creating a pattern, making clothing, the felting process, batik coloring and fashion photography.		<i>Fulfills Fine Arts/Life Role Development Compulsory Requirement</i>	The midterm and final of this course involve practical hands on testing.
Graphic Art and Design 110 This course looks at commercial art and develops the skills to understand and create images, signs, symbols, logos, that communicate a message or value. Projects include collage painting, business cards, logo design, CD cover design, illustration, three-dimensional package design.	Visual Arts 10 or permission from art teacher	Strongly recommended for students considering commercial art, fashion design, advertising, marketing, and fine arts programs. <i>Fulfills Fine Arts/Life Role Development Compulsory Requirement</i>	
Music (Guitars) 112/122 This course is designed for students who wish to improve upon their guitar playing ability. It is designed for both beginning guitar players as well as more advanced players.	Music 10 or permission from music teacher	<i>Fulfills Fine Arts/Life Role Development Compulsory Requirement</i>	
Music (Instrumental) 112/122 This course is designed for students interested in developing their skills with concert band and rock band instruments.	Music 10 or permission from music teacher	<i>Fulfills Fine Arts/Life Role Development Compulsory Requirement</i>	
Music (Keyboards) 112/122 This course is designed for each student to play at their own level and to set goals to reach a reasonable place of progression by the end of the semester. It is designed as primarily a solo instrument to study but there are opportunities to play duets.	Music 10 or permission from music teacher	<i>Fulfills Fine Arts/Life Role Development Compulsory Requirement</i>	
Music (Voice) 112/122 This course is designed for students to gain experience in singing a variety of texts, setting, groupings, and voicings. Enrollment in this course entails performing, both within and outside the school.	Music 112 or permission from music teacher	<i>Fulfills Fine Arts/Life Role Development Compulsory Requirement</i>	
Visual Arts 110 Students will build upon drawing and painting skills developed in the Visual Arts 10 course. Value drawing will be explored in new and interesting ways, as will the expressive potential of the portrait. Students will continue to develop painting skills and this will lead to independent painting projects which require creative problem solving. Art historical content will include works from the early Modernists up to and including late Modernists of the 1980's.	Visual Arts 10 or permission from art teacher	Students complete art projects that can be used for portfolio required for post-secondary visual arts and design programs. <i>Fulfills Fine Arts/Life Role Development Compulsory Requirement</i>	Recommended that students who consider a career in an arts related field take this course in Grade 11.

Visual Arts 120 Students will build upon skills and abilities developed in Visual Arts 110. Students will continue to explore the expressive potential of new materials and processes in drawing and painting. Greater emphasis will be placed on the volume, speed and energy of artistic production, and projects will involve more self-direction in consultation with the instructor. Art historical works will include those primarily from the late Modernists.	Visual Arts 110 or Graphic Art and Design 110 with Art teacher permission	Those entering university or college Visual Art, Design, or Photography programs, as well as architecture should take this course. The acceptance into most post-secondary visual arts and design programs is determined by portfolio submissions. <i>Elective Course</i>	
BUSINESS	Prerequisite	Post-Secondary Considerations	Special Notes
Business Organization & Management 120 This course is designed to help students understand and apply concepts and practices associated with business. New Brunswick businesses will be the focus of the course, with particular emphasis on small and medium size businesses. Students will learn about the importance of ethics in business, the business environment, management and human resources as well as international business.	Open to Grade 11 or 12 students	BOM is an academic level grade 12 course, accepted by most universities Valuable for students who plan on studying business at the post-secondary level. <i>Elective Course</i>	<i>Required for FIT certificate</i> An introductory course in business organization, operation and management.
Career Exploration 110 2 credit, one semester course This course combines classroom activities with work experiences. Students begin with four weeks of classes, followed by a five week work placement, then one week of classes, return for five weeks in a work placement and finish the course in the classroom.	Open to Grade 11 or 12 students	Students examine personal interests, values and aptitudes concerning the world of work. <i>Fulfills Fine Arts/Life Role Development Compulsory Requirement</i>	Students complete an application and are interviewed by the Career Exploration teacher before being accepted into the course and matched to work placements in the community.
Co-operative Education 120 2 or 3 credit, one semester course Students have the opportunity to engage in a work placement in a chosen career interest and are placed at a single worksite for 15 weeks. Students complete weekly journals and timesheets, career and training plan and a research assignment. Students prepare a personal portfolio for job interview purposes.	Grade 12 students only	The pre-placement component includes First Aid and Work Safety certified training, resume writing, interview and employability skills, communication, and decision making in the work place. <i>Fulfills Fine Arts/Life Role Development Compulsory Requirement</i>	Students complete an application and are interviewed by the Coop teacher before being accepted into the course and matched to work a placement. <i>The French Immersion option of this course is offered.</i>
Economics 120 Students develop a basic understanding of the economic system. Units include economics basics, comparative economic systems, business organization, demand, supply and the market, international trade, performance of the Canadian economy, money and banking, public finance, and labor unions.	Open to Grade 11 or 12 students	Academic level grade 12 course, accepted by most universities. Valuable for students who plan on studying business the post-secondary level. <i>Elective Course</i>	Course helps students understand the flow of money in our society.
Entrepreneurship 110 This course provides students with the opportunity to learn about small business start-ups, recognize and assess new business opportunities, determine the appropriate source of start-up capital and form of business.	Open to Grade 11 or 12 students	Introduces students to the business environment where they will experience creation of their own business plan. <i>Fulfills Fine Arts/Life Role Development Compulsory Requirement</i>	Recommended to be taken in grade 11 and follow by Business, Organization & Management 120 in grade 12. <i>The French Immersion option of this course is offered.</i>
Hospitality and Tourism 110 Units include five sectors of the hospitality and tourism industry, history and geography scenic routes, top attractions and events of N.B., impact on marketing	Open to Grade 11 or 12 students	Prepares students for work in the travel industry. <i>Fulfills Fine Arts/Life Role Development Compulsory Requirement</i>	Project-based course, students are expected to complete projects, activities and presentations. <i>The French Immersion option of this course is offered online.</i>

strategies and trends in tourism, looking at why people travel, transportation, accommodations, general occupational health and safety.		<i>Elective Course</i>	
IDEA Center, 2 credits They explore the entrepreneurial ecosystem while contributing positively to their communities. Students develop skills required to work in a business; as an owner, operator, innovator, community organizer, information analyst, marketing consultant, electronic commerce specialist, and to be aware of the local and international economy. Students 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.	Open to Grade 11 or 12 students	<i>Elective Course</i>	Students complete an application and are interviewed by the IDEA Center teacher before being accepted into the course. Students work off campus at NBCC and are required to provide their own transportation.
Introduction to Accounting 120 Accounting is a system that records and communicates information about an organization's economic activities. This knowledge contributes to better assessments of opportunities, products, investments, social and community responsibilities.	Open to Grade 11 or 12 students	Valuable for students who plan on studying business the post-secondary level. <i>Elective Course</i>	Students with accounting knowledge develop skills that are useful in business and everyday life.
Marketing 120 This course introduces the fundamental concepts of marketing, with an emphasis on in-depth analysis of the influence of changes in the economy and global marketplace, trends and issues, and the impact of technology. Students will analyze the buying patterns of various consumers and the effect of marketing strategies, and will engage in marketing research. Students will develop and present a full and in-depth marketing plan.	Open to Grade 11 or 12 students	Valuable to students studying business at the post-secondary level. <i>Elective Course</i>	An introductory course on marketing and advertising.
ENGLISH	Prerequisite	Post-Secondary Considerations	Special Notes
Advanced Placement English 120 An enriched exploration of English literature.		A valuable course for preparation of post-secondary studies. Recognized and can be accepted as a university credit. <i>Elective Course</i>	This is intended to be a challenging academic course. Must be a grade 12 student.
Canadian Literature 120 Various Canadian texts explore characters, ideas, values and experiences that contribute to Canada's unique and global nature.		An appropriate course for preparation of post-secondary studies in the humanities. Academic level grade 12 course, accepted by most universities. <i>Elective Course</i>	This is intended to be a challenging academic course..
English 111 – 2 credit, full year course Covers content similar to 112, but with a focus on analytical skills, literary theory, and effective writing. The intensive program prepares you to study humanities at the university level.	English 10	<i>Fulfills Grade 11 English Compulsory Requirement</i> Designed for students whose aptitudes and interests in language and literature are above average.	
English 112 – 2 credit, full year course This course provides experience in speaking and listening, reading and writing and in representing with a focus on significant literary pieces.	English 10	<i>Fulfills Grade 11 English Compulsory Requirement</i>	

English 113 – 2 credit, full year course Focus on developing students' abilities in speaking, listening, reading, viewing and writing. Priority is given to development of reading and writing comprehension and effective oral and written communication.	English 10	<i>Fulfills Grade 11 English Compulsory Requirement</i>	Practical and personal writing is stressed.
English 121 Covers content similar to 122, but with a focus on analytical skills, literary theory, and effective writing. The intensive program prepares you to study humanities at the university level.	English 111	A valuable course for preparation of post-secondary studies. <i>Fulfills Grade 12 English Compulsory Requirement</i>	English 12 is required for graduation. Course is one semester
English 122 This course focuses on critical and personal response to various forms of writing and representing, including fiction, non-fiction, poetry, digital media, and drama. Students will complete an independent novel study, a formal paper, and a research presentation.	English 112	English 121 or 122 is an academic level grade 12 course and is an admissions requirement at ALL Canadian universities. <i>Fulfills Grade 12 English Compulsory Requirement</i>	English 12 is required for graduation. Course is one semester
English 123 Focus on development of students' skills in speaking, listening, reading, viewing and writing with a concentration on reading comprehension, oral communication and written expression.	English 113	Acceptable level of English for college level studies for most programs. <i>Fulfills Grade 12 English Compulsory Requirement</i>	English 12 is required for graduation. Course is one semester Practical and personal writing is stressed.
Journalism 120 An elective course within the discipline of English Language Arts. It is intended to be an academic course, challenging in terms of its requirements but flexible enough to accommodate students with a wide range of interests and abilities. Students will explore four themes: craft of writing, medium is the message, propaganda, sensationalism and the news and accountability.	Grade 10 English	<i>Elective Course</i>	Students will focus primarily on digital journalism.
Media Studies 120 This course offers an introduction to the evolution and impact of mass media on the individual and society. The course will emphasize the content, process and technical elements of media production. Major units include culture, television, advertising, film, sound & music.	Open to Grade 11 or 12 students	<i>Elective Course</i> An ideal course for students going into psychology or business studies with a focus on advertising and marketing.	Recommended for self-motivated students who well in groups and interested in becoming media literate.
Dramatic (theater) Arts 120 Students develop performance skills. Units include projects like monologues, theatre history, improvisation, scene work, technical theatre work, movement module, voice module and pantomime. There is emphasis on group, partner and solo work in all units.	Open to Grade 11 or 12 students	<i>Fulfills Fine Arts/Life Role Development Compulsory Requirement</i> <i>Elective Course</i>	This course requires active participation from students; major evaluations are in children's theatre project, theatre critique, history of drama unit and monologue workshops.
Writing 110 An introduction to writing creative non-fiction, short-stories, poetry, drama, children's literature, and long fiction. Workshop and module based, meaning it is mainly student-driven.	English 10	<i>Elective Course</i>	Should be considered by students with good writing skills and an interest in creative or imaginative work. <i>The French Immersion option of this course is offered online.</i>

FRENCH & LANGUAGES	Prerequisite	Post-Secondary Considerations	Special Notes
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Advanced Placement French Language Arts 120 An enriched opportunity to develop increased fluency in French.	FILA 120	A valuable course for preparation of post-secondary studies in French. Recognized and can be accepted as a university credit	This is intended to be a challenging academic course.
French Immersion Language Arts 110 Focus on the development of students' skills in speaking, listening, reading, and writing with a concentration on oral communication and written expression. Units include speeches, novel studies, and cultural awareness activities.	FILA 10	Course can be used towards the <i>Provincial Certificate of French Immersion. Elective Course</i>	This course prepares students for the French Oral Proficiency Evaluation.
French Immersion Language Arts 120 Students learn to appreciate French culture through oral, reading and writing activities such as poems, stories, movies, etc.	FILA 110 recommended	Course can be used towards the <i>Provincial Certificate of French Immersion. Academic level grade 12 course, accepted by most universities. Elective Course</i>	Students acquire fluent language skills appropriate for post-secondary studies and various workplaces. This course prepares students for the French Oral Proficiency Evaluation.
Mandarin A 1.1 120 Students learn about the daily life and lifestyle of the Chinese people, Chinese tradition, education, food, history and cross cultural communication. Students will be able to speak Mandarin at a basic conversational level and be able to read, write and recognize more than 150 basic Chinese characters.	Open to Grade 11 or 12 students	<i>Elective Course</i>	
Mandarin A 1.2 120 Students learn about the daily life and lifestyle of the Chinese people, Chinese tradition, education, food, history and cross cultural communication. Students will be able to speak Mandarin at a basic conversational level and be able to read, write and recognize more than 150 basic Chinese characters.	Mandarin A 1.1	<i>Elective Course</i>	
Post Intensive French (PIF) 112 The emphasis is on having fun while speaking French. This course is based on the use of the French language for real life communication in the classroom and the development of literacy skills in the target language.	Post Intensive French (PIF) 10	<i>Elective Course</i>	This course is not intended for immersion students.
Post Intensive French (PIF) 122 Speaking and listening in French is emphasized as well as hands-on dynamic experiences. Units include a novel study, common phrases and useful grammar.	PIF 110 recommended	Academic level grade 12 course, accepted by most universities. <i>Elective Course</i>	Students acquire conversational French skills desired by many employers.
HEALTH & PHYSICAL EDUCATION	Prerequisite	Post-Secondary Considerations	Special Notes
Advanced Training Principles 120 This course develops physical fitness of students as they learn practical (power lifting techniques, body building, plyometric exercises, cross-, endurance-, alternative- and speed-training) and theoretical (sport nutrition, supplementation issues, physiology, biomechanics, sport specific training programs) aspects of physical training.	Wellness Through Physical Education 110 Recommended	Recommended for students interested in post-secondary education in Kinesiology; students interested in becoming certified personal trainers and athletes wanting to compete at a university level. <i>Elective Course</i>	Fitness for this class equals speed, power, strength, endurance, flexibility and agility. Students must be prepared to train. If you do not desire to sweat, work hard and be physically challenged, do not take this course.
Health and Physical Education 120 Leadership	Grade 11 and 12 students	<i>Fulfills Fine Arts/Life Role Development Compulsory Requirement</i>	Students complete an application and are interviewed by the Physical Education teacher.

This course develops leadership skills through involvement in physical activities. Themes include management, teaching, coaching, officiating, first aid and organization planning and leadership theory.	Health & Physical Education Grade 10 recommended		Students must complete 30 hours of out-of-class volunteer time.
Outdoor Education/Pursuits 110 This course offers students an understanding of outdoor activities, such as canoeing, swimming, orienteering, hiking, and outdoor survival. The classroom setting varies, i.e. football field, aquatic center, local lake and nature park. Activities go as planned – rain, snow or shine.	Health & Physical Education Grade 9	<i>Fulfills Fine Arts/Life Role Development Compulsory Requirement</i>	Completing all skills, projects, and teaching components is non-negotiable. This course is not for the faint of heart, as students must be flexible in their approach to activity.
Physical Activity through Team Sport 110 Focused on meeting the daily physical activity requirements in a team sports setting. Students will earn and play various team sports while focusing on fitness, team collaboration and team strategy.	Open to grade 11 or 12 students	<i>Elective Course</i>	
Wellness Through Physical Ed. 110 Students have opportunities to be active while enhancing their decision-making skills towards wellness. Theory units include nutrition, exercise and fat control, understanding of body's response to exercise, heart maintenance, stress, flexibility and planning fitness programs.	Open to Grade 11 or 12 students	<i>Elective Course</i>	Apprenticeship hours in the Harrison Trimble Fitness and Wellness Centre are required. Students must participate in a variety of fitness activities.
Yoga 110 Introduces students to the ancient tradition of yoga in its various forms and styles. Focused on using breath paired with movement to improve mind/body awareness and connection. With its vast capacity to bring vibrant health to body, mind, and emotion, the main outcome of this course is to develop healthy relationships with self, others, and the earth.	Open to Grade 11 or 12 students	<i>Elective Course</i>	Students will explore the fundamentals of yoga through a combination of physical practice, personal reflection, partner exercises, theory, breathing techniques, and meditation
HOME ECONOMICS & FAMILY STUDIES	Prerequisite	Post-Secondary Considerations	Special Notes
Child Studies 120 This course enables students to recognize children as our most significant resource and provide for their optimum growth. This includes learning about pregnancy, child development and child behavior.	Open to Grade 11 or 12 students	This course would be beneficial in any field involving work with children one-on-one, such as teachers, day care workers, parents, nurses. <i>Elective Course</i>	Participation with a child outside of school hours is compulsory.
Culinary Technology 110 This course focuses on knowledge and application of the food service industry, employment, safety & sanitation, nutrition, standardization, cooking methods, equipment, workspace, techniques and food preparation.	Open to Grade 11 or 12 students	This course helps students be aware of employment opportunities and post-secondary education in the food service industry. <i>Fulfills Fine Arts/Life Role Development Compulsory Requirement</i> <i>Elective Course</i>	In the last twenty years, the number of food service employees and the amount of restaurant food consumed have doubled; there is need for training in this field.
Culinary Technology 120 This focuses is on safety and sanitation, food supply, influences on North American cuisine, food for meals (legumes, fruits and vegetables, shell fish, meat cuts), menu management, and additional food preparation skills. Theory includes the planning of quality meals, ordering, pricing, preparation and service.	Culinary Technology 110	Students explore careers and entrepreneurship opportunities in the food service industry. <i>Elective Course</i>	Actual hands-on experiences will add to the students' knowledge and employability.
Early Childhood Services 110 This course explores historical perspective of children's needs, current issues regarding	Open to Grade 11 or 12 students	Prepares students for employment in the child care sector. <i>Elective Course</i>	Instructional time includes group and individual research and study, followed by tests and

child care, regulations governing facilities in N.B., theories on child growth and development, observation & communication skills, planning and instructional skills.			exams. Laboratory time is used to develop and practice plans to work with young children.
Growth, Goals and Grit 120 Provides students with skills in three main areas - positive and productive mindsets and behaviors, organizational patterns, as well as functional and critical literacy. Within the broad learning expectations of the course, specific success skills, strategies, and practices will be explored. Students will be supported to apply and transfer these skills, strategies, and practices to other courses and real-life situations. Students will learn how these support postgraduate pursuits.	Open to grade 11 and 12 students	<i>Elective Course</i>	
Individual and Family Dynamics 120 This course exposes students to the skills and information necessary to make informed decisions about personal development, lifestyle choices, and healthy relationships. Units of study: Families in a Changing World, Personal Growth & Development, Interpersonal Relationships, Individual & Family Wellness.	Open to Grade 11 or 12 students	<i>Fulfills Fine Arts/Life Role Development Compulsory Requirement</i>	The course is discussion-based and designed for students interested in social issues. <i>The French Immersion option of this course is offered.</i>
Nutrition For Healthy Living 120 The course explores the influences of food on personal health and wellness. Topics include: digestion, absorption, metabolism and function of the six nutrient groups. Through investigation and analysis of five nutrient groups, recommended daily intake of calories, and other nutritional 'hot topics' students will become educated on the importance of maintaining a balance between healthy food choices and physical activity.	Open to Grade 11 or 12 students	This is an excellent choice for students concerned with personal wellness and who wish to pursue a career in science, with an emphasis in nutrition or other health related fields. <i>Elective Course</i>	Students are expected to examine their eating habits and lifestyle choices. Students should have a background or interest in biology and chemistry.

How are pathways different than levels?

Levelled courses are developed for different academic abilities. "Pathways" of courses are designed to better meet your interests and needs for after high school.

What if I don't know what I want to do after I graduate? Can I switch pathways?

Yes. If you have started to take courses in one pathway, you can take courses in another one, as long as you complete the prerequisites. You will receive credit for all math courses you take.

Should I take more math courses, even if I don't need them to graduate?

You may need specific courses for entrance to post-secondary programs. You will also increase your math skills and keep them current which will help you no matter what you decide to do after high school.

For more information, contact the Guidance Counsellor at your school or go to: www.careercruising.com (login information available from Guidance Dept.)

High School Mathematics Pathways



An understanding of math is essential in today's competitive, technological world. Starting in 2008, the K-12 mathematics curriculum in New Brunswick has been changing to help students be better prepared for whatever they choose to do after high school. The new curriculum is focused on providing students with the skills and knowledge to confidently solve problems and contribute to society.

The high school mathematics program has changed significantly. There are new courses for Grades 9 to 12 and the Grades 11 and 12 courses are organized into three "pathways". These pathways and the courses included in each are explained in more detail on the next page.

Financial and Workplace Mathematics



Foundations of Mathematics



Pre-Calculus



Each pathway is designed to provide students with the mathematical competencies and critical thinking skills that will be needed after high school. Students should select courses in the pathway that best fits their interests and plans for after high school, similar to selecting science and other elective courses. Each pathway provides students with a different focus of math concepts and skills. Students may choose to take additional courses beyond what they need to graduate to better prepare them for what they want to do after high school.

REQUIRED COURSES

What math courses do I need to graduate?

- ◆ Mathematics 9
- ◆ Geometry, Measurement, and Finance 10
- ◆ Number, Relations, and Functions 10
- ◆ Plus: one of the following Grade 11 courses
 - ◇ Financial and Workplace 11
 - OR
 - ◇ Foundations of Mathematics 11 (pre- or co-requisite for the Pre-Calculus pathway)



GRADE 9: MATHEMATICS 9

Length: Full year

Prerequisite: Grade 8 mathematics

Topics: exponents and bases, linear relations and equations, polynomials, circle properties, surface area, scale diagrams, data collection and displays, histograms, probability

GRADE 10: Geometry, Measurement, and Finance 10

Length: 1 semester

Prerequisite: Grade 9 mathematics

Topics: Pythagorean Theorem, polygons, angles, trigonometric ratios, metric and Imperial systems of measurement, surface area and volume, unit pricing, currency exchange, income (gross & net pay), credit cards, loans, interest

GRADE 10: Number, Relations, and Functions 10

Length: 1 semester

Prerequisite: Grade 9 mathematics

Topics: prime factors, common factors, square and cube roots, irrational numbers, integral and rational exponents, polynomial expressions, trinomial factoring, linear relations and functions, slope, distance formula, midpoint formula

AND

High School Math Pathways: Which one is best for you?



FINANCIAL AND WORKPLACE MATHEMATICS

This pathway is designed for students who plan to take post-secondary programs that require applied mathematics or who plan to enter the workforce directly after high school.



FOUNDATIONS OF MATHEMATICS

This pathway is designed for students who plan to take post-secondary academic programs that do not require calculus.



PRE-CALCULUS

This pathway is designed for students who plan to take post-secondary programs that require calculus.



GRADE 11 COURSES

Financial and Workplace Mathematics 110

Length: 1 semester

Pre-requisite: *Geometry, Measurement, and Finance 10*

Topics: right triangles, trigonometry, scale models & drawings, numerical reasoning, renting & buying, investment portfolios, personal budgets, application of formulas, slope, proportional reasoning.

Opens doors to programs such as:

College diplomas: Early Childhood Education, Firefighting, Drafting, Welding, Plumbing, Carpentry;

Bachelor degrees: Arts and Fine Arts

Foundations of Mathematics 110

Length: 1 semester

Pre-requisites: *Number, Relations, and Functions 10* and

Geometry, Measurement, and Finance 10

Topics: numerical & logical reasoning, angles & triangles, sine & cosine law, systems of linear inequalities, quadratic functions, renting & buying, investment portfolios

Opens doors to programs such as:

College diplomas: Medical Technology, Business Administration, Practical Nursing;

Bachelor degrees: Arts and Fine Arts

Pre-Calculus 110

Length: 1 semester

Pre- or Co-requisite:

Foundations of Mathematics 110

Topics: absolute value functions, radical expressions & equations, rational expressions & equations, angles & trigonometric ratios (0° - 360°), polynomial factoring, systems of equations, quadratic functions & equations, linear & quadratic inequalities.

Opens doors to programs such as:

College diplomas: Engineering and Environmental technology;

Bachelor degrees: Nursing

GRADE 12 COURSES

Financial and Workplace Mathematics 120

Length: 1 semester

Pre-requisite: *Financial and Workplace Mathematics 110* OR

Foundations of Mathematics 110

Topics: measuring, sine & cosine laws, properties of polygons, transformations of 2-D & 3-D shapes, small business finance, linear relationships, data interpretation, probability.

Not currently required for any specific program, but would support:

College diplomas: Art and Design, Forest Technology, Business

Foundations of Mathematics 120

Length: 1 semester

Pre-requisite: *Foundations of Mathematics 110*

Topics: normal distribution, standard deviation, confidence intervals, set theory, conditional statements, probability, binomial theorem, polynomial, exponential, logarithmic & sinusoidal functions.

Opens doors to programs such as:

College diplomas: Engineering Technology, Computer Technician, Pharmacy Technology; Bachelor degrees: Nursing, Kinesiology, Business Administration, Economics, Psychology

Pre-Calculus A 120

Length: 1 semester

Pre-requisite: *Pre-Calculus 110*

Topics: graphs of functions & related equations, exponential & logarithmic functions & equations, angles in standard position, degrees & radians, unit circle, trigonometric functions & equations, trigonometric identities.

****Most programs that require**

Pre-Calculus A 120, also require Pre-Calculus B 120

Pre-Calculus B 120

Length: 1 semester

Pre- or Co-requisite: *Pre-Calculus A 120*

Topics: arithmetic & geometric sequences & series, polynomial factoring & functions, radical, reciprocal & rational functions, function toolkit, permutations, combinations & binomial theorem, limits & continuity of functions.

Opens doors to programs such as:

Bachelor degrees: Science, Computer Science, Engineering, Mathematics

Calculus 120

Length: 1 semester

Pre-requisites: *Pre-Calculus A 120* and *Pre-Calculus B 120*

Topics: rates of change, derivatives of functions, derivative rules, inverse trig functions, optimization problems, definite integrals, antiderivatives, application of integrals.

Supports: Bachelor degrees: Science, Computer Science, Engineering, Mathematics



Please confirm the entrance requirements for specific programs offered by post-secondary institutions.

SCIENCE	Prerequisite	Post-Secondary Considerations	Special Notes
Automotive Electrical Systems 120 This course introduces the theory and operation of automotive electrical systems. Students will begin with a study of the basic principles of electricity, which includes electron theory, magnetism, and electrical symbols. They will then progress to the study of individual components throughout the vehicle. .	Grade 10 science	This course would benefit students considering an occupational area involving the maintenance in the automotive, aircraft and marine industries.	
Biology 112 This course emphasizes the nature of life. Topics include unity and diversity of living systems, cellular structure, energy systems and animal physiology.	Grade 10 science	<i>Fulfills Science Compulsory Requirement</i>	Instructional methods include lecture, demonstration, projects, and labs. The French Immersion option of this course is offered.
Biology 122 Major topics are systems regulating change in human and other organisms, reproduction and development, chromosomes, genes, DNA, change in populations, communities and species.	Grade 10 Science	Academic level grade 12 course, accepted by most universities. <i>Elective Course</i>	Instructional methods include lecture, demonstration, projects, and labs.
Chemistry 112 This course emphasizes learning chemistry through the scientific method. Topics include laboratory safety and techniques, matter, chemical nomenclature, chemical reactions, stoichiometry, atomic structure, bonding, and trends in the periodic table.	Grade 10 science Co-requisite: Foundations of Math 110	<i>Fulfills Science Compulsory Requirement</i>	Laboratory experiments allow students to observe and draw conclusions leading directly to important chemical principals. Labs are essential to your learning.
Chemistry 122 Major topics include organic chemistry, thermo, equilibrium, kinetics, acids and bases. Students continue to gain skills used for laboratory investigations.	Chemistry 112 Foundations of Math 110	Academic level grade 12 course, accepted by most universities. <i>Elective Course</i>	Labs are essential to your learning.
Human Physiology 110 This course is designed to appeal to a wide range of learners including students for whom this will serve to fulfill their science graduation requirement and students who will take additional science courses. A study of Human Physiology will be relevant to every student, providing them with the tools they will need to make informed choices about their own health and that of others. This course focuses on the biology and healthy functioning of all of the major human body systems and how wellness can be compromised by struggles with mental and social health, lifestyle choices and disease.	Grade 10 science	Human Physiology 110 will be relevant to those students who will be going on to careers in the social sciences, health care and medicine. <i>Fulfills Science Compulsory Requirement</i>	Attendance is important as evaluation is based on many in-class labs, activities, and projects.
Introduction to Environmental Science 120 This course introduces the scientific concepts needed to understand the natural world and current environmental issues. Topics include terrestrial and aquatic ecosystems, biodiversity, biochemical cycles, land & water resources, population dynamics, energy resources & consumption, pollution and climate change.	Grade 10 science	Academic level grade 12 course, accepted by most universities. <i>Fulfills Science Compulsory Requirement</i>	Evaluation is based on activities, projects, and labs. Depending on the season, field work may be required.
Physics 112 Main units include kinematics, dynamics, work and energy and waves. Labs are generally done in teams. A physics problem	Grade 10 science Co-requisite:	Physics is required for many post-secondary programs in health science and engineering technology fields. <i>Fulfills Science Compulsory Requirement</i>	Problem solving is the backbone of physics and demonstrates that one can apply the pieces of knowledge they have acquired.

solving assignment usually accompanies each chapter. Problems are from external sources and require considerable thought.	Foundations of Math 110		
Physics 122 Main units include three units: dynamics extension, projectiles / circular motion and universal gravitation and fields Labs are generally done in teams.	Physics 112 Foundations of Math 110	Academic level grade 12 course, accepted by most universities. Valuable for students who plan on studying science at the post-secondary level. <i>Elective Course</i>	Problem solving opportunities explored in Physics 112 are further investigated.
Lab Tech Life Science 12 For the true science minion! Major topics are histology, pathology, human kinetics, cytotoxicity, forensics, and advanced laboratory skills.	Open to grade 11 and 12 students		
SKILLED TRADES	Prerequisite	Post-Secondary Considerations	Special Notes
Automotive Electrical Systems 120 This course introduces the theory and operation of automotive electrical systems. Students will begin with a study of the basic principles of electricity, which includes electron theory, magnetism, and electrical symbols. They will then progress to the study of individual components throughout the vehicle. .		This course would benefit students considering an occupational area involving the maintenance in the automotive, aircraft and marine industries.	
Computer Aided Design 110 This is an introductory course in computer-assisted drafting using AutoCAD LT. Students will work at a computer station to design and develop drawings to industry standards. The focus of this course is to commence with Mechanical Drafting and then complete the course with a unit in Architectural drafting. The last week of classes students will prepare a final presentation of their architectural project using Google Sketch-up.	Open to grade 11 and 12 students	The program prepares students to enter engineering or architecture at University, Engineering Technology at NBCC and various Trades program. <i>Elective Course</i>	This is a practical course where students work on drawings
Computer Aided Graphics (Drafting) 120 This is a continuation of Computer Aided Design 110. The emphasis will be on Architectural Drafting. We will begin with an exploration of the construction industry, all the systems in a house and finally design and draw an energy efficient home to existing codes and standards. A 3-D model of the house will also be rendered using Google Sketch-up. Students will become competent and proficient in the planning and development of drawings. In addition, students will have the opportunity to read blueprints and learn sketching techniques.	Computer Aided Design 110	The program prepares students to enter engineering or architecture at University, Engineering Technology at NBCC and various Trades program at NBCC. <i>Elective Course</i>	
Electrical Wiring 110 The overall aim of this course is to cultivate the need and desire of students to follow safe work practices and to develop the language and work skills of the trade by being able to: relate electrical blueprints and specifications to a real job; identify the various materials, tools, techniques, and rules governing the installation and connection of electrical components used in residential wiring; exploration of employment skills and career awareness in electrical and associated trades (linesman, controls, instruments, and industrial electrician);	Introduction to Applied Technology 110	<i>Elective Course</i> <i>Fulfills Fine Arts/Life Role Development Compulsory Requirement</i>	

potential employment options looking at provincial statistics and industry projections; and, identify the certification and continued education available at colleges and universities as well as an awareness of the Canadian Red Seal Certification Program and its professional designation (RSE).			
Framing and Sheathing 110 This course will provide students with skills and knowledge associated with the framing-in or shell construction of typical single family dwellings.	Introduction to Applied Technology 110	<i>Elective Course</i> <i>Fulfills Fine Arts/Life Role Development Compulsory Requirement</i>	Students will participate in construction and planning activities, which include interpretation of the National Building Code, blueprint reading, estimating and material layout.
Internal Combustion Engines 110 This course is a study of the operation of the internal combustion engine including the construction, theory of operation and function of its systems. Students disassemble and assemble engines, checking, servicing and repairing components and systems. Emphasis is placed on the development of basic skills essential for persons entering the motor vehicle service trades and other allied occupations.	Open to grade 11 and 12 students	This course should be of interest to students interested in entering or learning about the opportunities and requirements of the motor vehicle service industry and students with a general interest in mechanics. <i>Elective Course</i> <i>Fulfills Fine Arts/Life Role Development Compulsory Requirement</i>	
Introduction to Applied Technology 110 This is a project based course designed to introduce the various shop classes at HTHS. Students learn about safety, measurement and measurement math, hand and power tools and information needed in more specialized vocational courses.	Open to Grade 10, 11 or 12 students	This course is strongly recommended as the grade 10 elective if student is interested in the skilled trades. <i>Elective Course</i> <i>Fulfills Fine Arts/Life Role Development Compulsory Requirement</i>	This course is approximately 40% theory and 60% practical.
Metals Fabrication 110 This course is a study of standard machine shop processes used in the manufacture of metal products. Proper operating instruction will be given on a variety of machine tools and the development of basic skills needed to use electric-arc and oxyacetylene welding and cutting processes.	Open to Grade 11 or 12 students	Instructional time of the course will benefit and appeal to those students interested 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. <i>Fulfills Fine Arts/Life Role Development Compulsory Requirement</i>	
Metals Processing 120 This course allows students to continue to explore the processes used in the manufacture of metal products.	Metals Processing 110		
Mill and Cabinet Work 120 This is a project based introduction to the cabinetry and mill work trade. Students learn about the safe use of tools, print reading, wood and wood products, joinery techniques used to build furniture and cabinets.	Introduction to Applied Technology 110	<i>Elective Course</i> <i>Fulfills Fine Arts/Life Role Development Compulsory Requirement</i>	This course is 40% theory and 60% practical work.
NBCC Skilled trades and work ready math 120 This course is intended to strengthen in-context mathematics skills and instill confidence before entering a post-secondary skilled trades program or workplace. Students will become proficient with accuracy and	FINWPL Math 110	This course is available as an NBCC credit, if students successfully complete the NBCC Math Foundations 1208 assessment.	

precision, work with measurement tools, and use both Imperial and S.I. units.			
Residential Finish 120 This course examines the work required to finish a family dwelling once it is framed-in. Topics covered include insulation, wall cladding, doors, windows, cornice trim and roof covering. Students will study these topics both in theory and through practical project work. This course should be of interest and value to those students interested in pursuing a career related to the residential construction industry.	Introduction to Applied Technology 110	<i>Elective Course</i> <i>Fulfills Fine Arts/Life Role Development Compulsory Requirement</i>	This course should be of interest and value to those students interested in pursuing a career related to the residential construction industry.

SOCIAL STUDIES	Prerequisite	Post-Secondary Considerations	Special Notes
Advanced Placement Psychology 120 This course covers the same material as first year university psychology. As such it is an introduction to all of the topics and sub-fields within the broad spectrum of psychological studies.	English 112	This course is unusually fast-paced and challenging. Students have the option of writing the national AP test, which, if passed, may allow the student to receive the university credit for first-year psychology without taking it at university.	The Psychology 120 credit may be earned if AP component of course is not completed.
Canadian Geography 120 Topics include changing cultural and physical landscapes of Canada and how they impact on each other. Units include physical geography, environmental issues, social & cultural identity, economic and political aspects of Canadian life and Canadian-International relations.	Social Studies 10	Academic level grade 12 course, accepted by most universities. <i>Elective Course</i>	
Canadian History 122 Focus on Post-Confederation with an emphasis on the 20 th century. Themes include English-French relations, First Nations, Regionalism, and Canadian identity. Students who excelled in level 2 History, who enjoy learning about our Canadian past, and who show an aptitude for civics will find success in this course.	Modern History 112	Academic level grade 12 course, accepted by most universities. Students must be prepared to use research and writing skills taught in History 112 and in English courses. <i>Elective Course</i>	
Indigenous Studies 120 This course covers topics such as Treaties, Residential Schools, New Brunswick First Nation Communities, Legislation and Policy Impacting First Nations, Post-Colonization: De-mythologizing Popular Culture; Reconciliation: National Inquiries in Canada; The UN Declaration of Indigenous Rights: Calls for Action; First Nations and Global Conflicts.	Open to grade 11 and 12 students	<i>Elective Course</i>	
Law 120 This course is designed to give students knowledge of Canadian law. Students will examine the origins of the Canadian legal system, Canadian Charter of Rights, the Criminal Code, police investigation and arrest, trials, defences and sentencing, criminal law, torts/civil law, and contracts.	English 10	Academic level grade 12 course, accepted by most universities. <i>Elective Course</i>	Case studies, guest speakers, mock trials, debates, help students develop informed opinions on current legal topics. <i>The French Immersion option of this course is offered online.</i>
Modern History 112 Covers modern western civilization from the French Revolution to the Cold War. Focus on	Social Studies 10	<i>Fulfills Grade 11 Modern History Compulsory Requirement</i>	Each student must write a formal research paper using the required essay format.

French & Industrial Revolutions, ideas of the 19 th century, WW I, rise of totalitarian states, WW 2, the Cold War, United Nations & globalization.			The French Immersion option of this course is offered.
Modern History 113 Topics include basic world geography, Industrialization, life in the 1920s and 30s, WW 1, WW 2, and the Cold War.	Social Studies 10	Fulfills Grade 11 Modern History Compulsory Requirement	
Political Science 120 Topics include Canadian municipal, provincial and federal political systems, international political systems, political reform, United Nations, and diplomacy. Special projects include analyzing a political document, such as Budget or Throne Speech.	Modern History 112	Academic level grade 12 course, accepted by most universities. <i>Elective Course</i>	This course requires a great deal of study, research and day-to-day knowledge of domestic politics.
Sociology 120 Students study interactions of individuals and groups and forces that affect them by exploring historical origins of sociology, structures in society, evidence of inequalities both domestically and globally, and by evaluating various social institutions.	Social Studies 10	Academic level grade 12 course, accepted by most universities. <i>Elective Course</i>	Students will be expected to demonstrate their understanding of sociological concepts through writing, researching and presenting.
World Issues 120 This course will guide students through a study of selected contemporary world issues and their cultural, resource, political, economic and environmental factors. The interdependence of these and other factors challenges students to examine their knowledge and biases, to reflect upon alternative positions, to analyze each issue, and to evaluate possible solutions.	Modern History 112	Academic level grade 12 course, accepted by most universities. <i>Elective Course</i>	Students should demonstrate an aptitude for history and the arts, and should have a general understanding of the world around them including current events and global geography.

TECHNOLOGY	Prerequisite	Post-Secondary Considerations	Special Notes
Computer Science 110 An introduction to programming for all high school students. Students will learn the Visual Basic language and will be making small computer applications.	Open to Grade 11 or 12 students	A foundation for further studies for computer science, engineering, business, and physics. Many science and businesses program require students to complete 1 computer science credit.	<i>FIT certificate elective.</i> Math, analytic and problem solving abilities an asset but an excellent introduction for all students with a curiosity about programming.
Computer Science 120 A more comprehensive look at object oriented programming, e.g. Java. Students will have the opportunity to also do app development..	Computer Science 110 is strongly recommended	A foundation for further studies for computer science, engineering, business, and physics. Students wishing to apply to a college/university CS degree program require Pre-Calculus 12A and 12B.	Builds on concepts learned in Computer Science 110 CS120 covers many of the concepts which are found in first year CS courses in university and college.
Cybersecurity and Technology Support 110 Fundamentals and basics of computer components, computer maintenance, repair, upgrading, and assembly.	Open to grade 11 or 12 students	These skills will provide a foundation for further studies in computer support, network support, and other Information Technology (IT) studies.	<i>FIT Certificate elective.</i>
Digital Production 120 Web design and development, social and mobile media, audio production/editing, video production/editing, web communications, and e-business.	Open to grade 11 or 12 students.	Foundation for further studies in e-business, animation, graphic design, audio production, video production and web design.	<i>FIT certificate elective.</i> Students will have the opportunity to work hands on with cameras, green screens, podcasting, and recording audio/video and create stunning web and graphic design works.

Housing and Design 120 Housing and Interior Design 120 is designed to show the relationship between different types of housing and the housing needs of individuals, families and communities. The influences of cultural, psychological and aesthetic aspects of housing are examined. The value of creativity and individuality in a living environment is an important element of the course. Course topics span factors including housing in various cultures, historical and modern trends in housing and lifestyles needs, financial and legal costs and requirements, basic floor plans and arrangements, plus the principles and elements of design.	Open to students in grade 11 or 12	This course would be of interest to students interested in the field of architectural design, drafting or home economics. <i>Elective Course</i> <i>Fulfills Fine Arts/Life Role Development Compulsory Requirement</i>	
Information Technology 120 Introduction to MS Office (Word, Excel, PowerPoint, & Access). This is a practical course for future studies and employment.	Open to grade 11 or 12 students	Applicable to all fields of study. The top two skills employers seek are critical thinking and Information Technology applications. Elective course	<i>Required for FIT certificate.</i> Eligible for MS Office certification.

PERSONALISED LEARNING	Prerequisite	Post-Secondary Considerations	Special Notes
Personal Interest 1 and 2 These courses promote learner agency and support personalized learning. They are designated to provide students with the time, opportunity, and resources to develop and pursue individual interests. The programming for these courses will be designed by the student with the support of their teachers and/or other mentors in the school or community (local/global).	Open to students in grades 11 or 12		

