



Course View book



MARINERS

Two Math courses at the grade 10 and one at the grade 11 level are required for Graduation

Mathematics

Math Pathways

Straight to Graduation

- Grade 9
- Geometry, Measurement and Finance 10 and Numbers, Relation and Finance 10
- Financial and Workplace Math 110
- Financial and Workplace Math 120

Graduation PLUS

Nursing or Business

- Grade 9
- Geometry, Measurement and Finance 10
- Numbers Relations and Functions 10
- Foundations Math 110
- Foundations Math 120

Graduation and keeping my options open! Science, Computer Science, Kinesiology, Engineering

- Grade 9
- Geometry, Measurement and Finance 10
- Numbers Relations and Functions 10
- Foundations Math 110
- Pre-Calculus 110
- Pre-Calculus A 120
- Pre-Calculus B 120
- Calculus 120

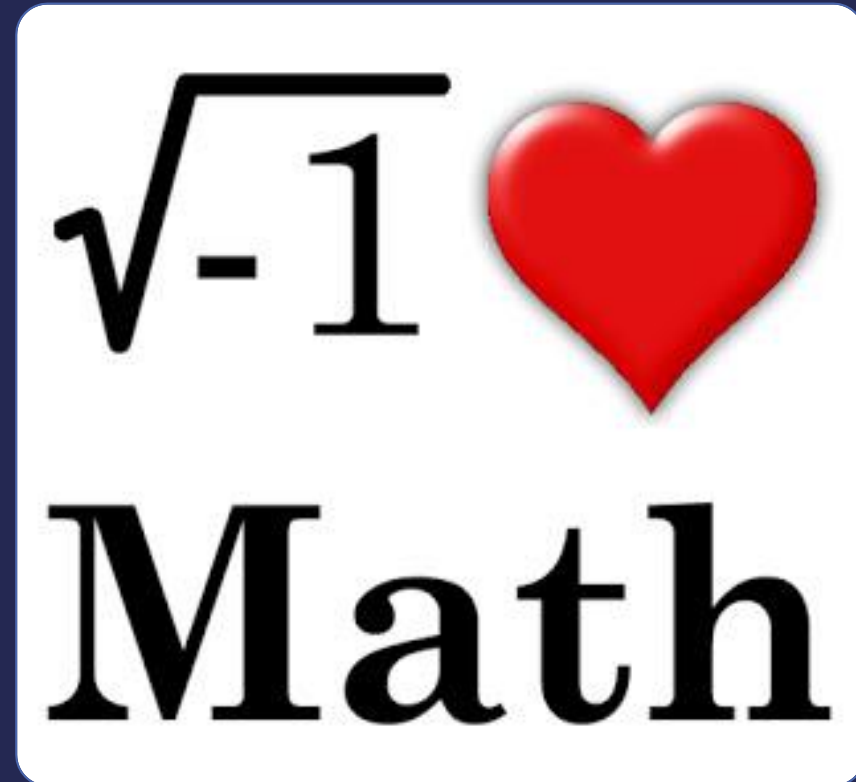
Finance and Workplace Math 110

- This course is designed to provide students with the mathematical understandings and critical-thinking skills identified for entry into some college programs and for direct entry into the workforce.
- The aim of this course is to develop spatial sense through direct and indirect measurement, number sense and critical thinking skills, algebraic and statistical reasoning and critical thinking skills related to uncertainty.



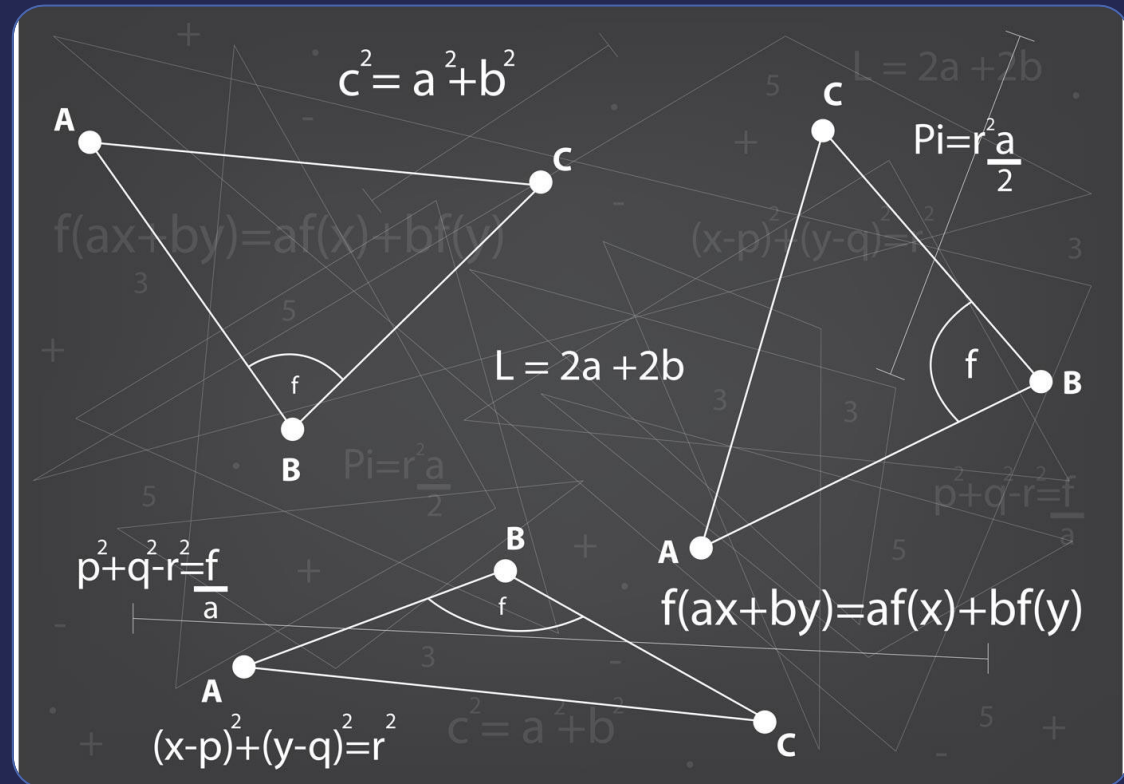
Finance and Workplace Math 120

- Good choice for students entering the trades. Prerequisite is Financial 110
- Course content includes:
 - Measurement
 - Geometry
 - Linear Relations
 - Statistics
 - Probability



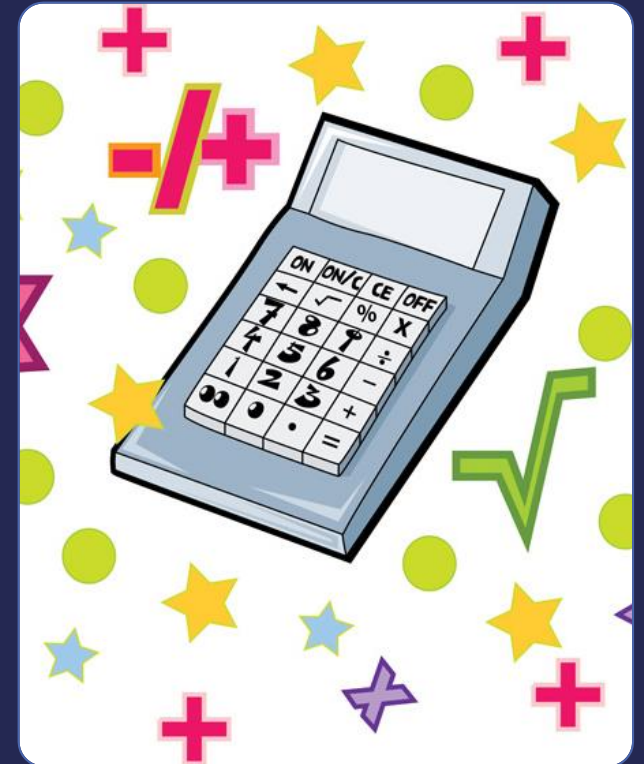
Foundations 110

- This is a one semester course designed for students who are interested in attending university or certain programs in college.
- Topics Include:
 - Proportional reasoning
 - Logical reasoning
 - Geometry
 - Linear Systems
 - Quadratics
 - Financial mathematics



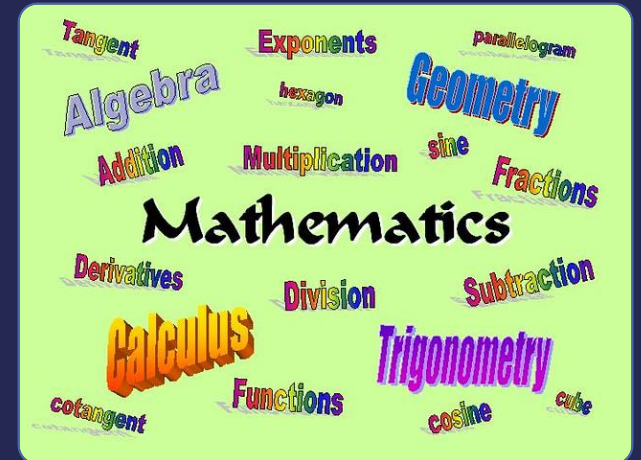
Foundations 120

- Can be taken in place of Pre-Calculus 110 for admissions into some Nursing Programs at University. Prerequisite is Foundations 110.
- Is an admissions requirement for most Business programs in Nova Scotia
- Is a good option for an upper level math course
- Course Content Includes:
 - Probability
 - Statistics
 - Polynomial Functions



NBCC Skills Trade Work Ready Math 120

- This is a one semester course designed for students who are interesting in attending one of the trades programs at NBCC. Still in the pilot phase.
- Such as:
 - Bricklaying, carpentry, Electrical:Construction, Electrical: Industrial, Fuels Technician, HVAC: Sheet Metal Fabrication, Industrial Mechanics, Mechanical Technical, Plumbing, Refrigeration and Air Conditioning, Steamfitting/Pipefitting.
 - CNC Machining, Machinist, Steel Fabrication, Welding, Welding and Metal Fabrication, Welding Technology.
 - Agricultural Equipment Repair, Auto Body and Collision Technical, Automotive Service Technical, Automotive Technology, Heavy Equipment Service Technician, Marine Diesel Mechanics, Motorcycle Repair, Truck and Transport Service Technician.



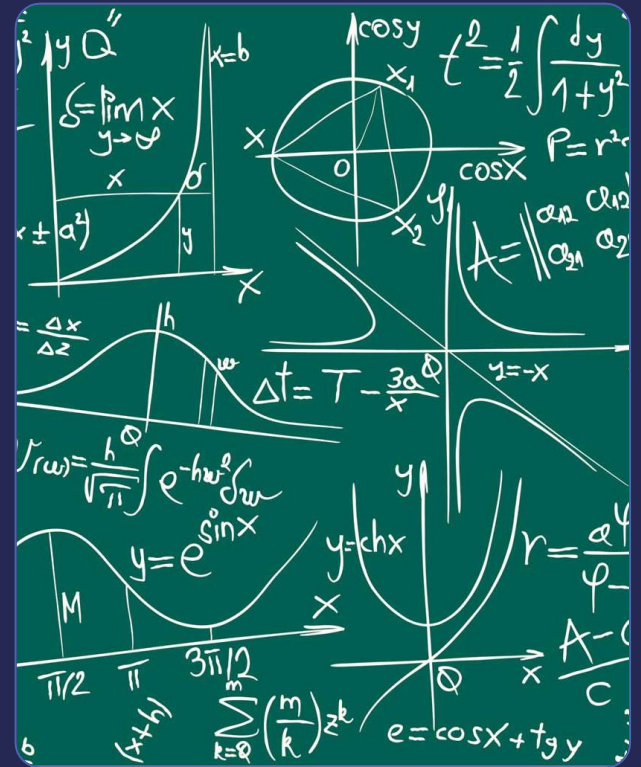
Pre-Calculus 110

- This course is designed for students who are interested in attending university or community college and taking post-secondary programs that require mathematics.
- Specifically, this pathway is designed to provide students with the mathematical understandings and critical-thinking skills identified for entry into post-secondary programs that require the study of calculus.
- Course Content Includes:
 - Quadratic Functions
 - Quadratic Equations
 - Quadratic Systems
 - Quadratic Inequalities
 - Absolute Value Functions
 - Radicals
 - Rational
 - Cartesian Trigonometry



Pre-Calculus A 120

- This course is required for most science, business in NB, engineering and kinesiology degrees
- This course intends to prepare students for the study of Calculus by developing an understanding of transcendental functions, both algebraically and graphically.
- Topics Include
 - Transformations
 - Radical functions
 - Exponential and logarithmic functions
 - Solving and graphing trigonometric functions
 - Trigonometric identities

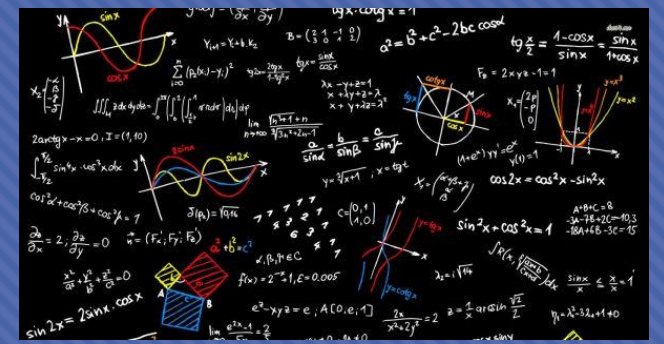


Pre-Calculus B 120

- This course is required for most science, business in NB, kinesiology and engineering degrees
- This course intends to prepare students for the study of Calculus by deepening their understanding of polynomial and rational functions, as well as developing an understanding sequences, series, combinatorics and limits.
- Topics Include
 - Combinatorics
 - Sequences and series
 - Polynomial functions
 - Graphing rational functions
 - Function combinations and compositions
 - Limits

The image displays several mathematical formulas related to probability and calculus. The most prominent formula is the normal distribution function: $f_{a,\sigma^2}(\xi_1) = \frac{(\xi_1 - a)}{\sigma^2} f_{a,\sigma^2}(\xi_1) = \frac{1}{\sqrt{2\pi}}$. Other formulas include the Fisher information matrix: $\frac{\partial}{\partial \theta} f(x, \theta) dx = M \left(T(\xi) \cdot \frac{\partial}{\partial \theta} \ln L(\xi, \theta) \right)$, the Fisher score: $\frac{\partial}{\partial \theta} \ln L(x, \theta) \cdot f(x, \theta) dx = \int_{R_n} T(x) \cdot \left(\frac{\partial}{\partial \theta} \frac{f(x, \theta)}{f(x, \theta)} \right)$, and the Fisher information matrix: $E \left(\frac{\partial}{\partial \theta} \int T(x) f(x, \theta) dx = \int \frac{\partial}{\partial \theta} T(x) f(x, \theta) dx \right)$.

Calculus 120



This course will prepare a student for university Calculus by building a strong foundation in the basics required to study calculus.

This is it, you made it. *Hold on tight.*

Topics include:

- Pre calculus review
- Limits
- Definition of derivative
- Differentiation rules for sums/differences
- Products and quotients
- Chain rule
- Implicit differentiation
- Derivatives of trig functions
- Logarithmic and exponential functions
- Mean Value Theorem
- Related rates
- Optimization problems
- Graphing
- Integrals of increase/decrease
- Concavity
- Critical points
- Inflection points and so much more!



MARINERS

Physical Education

Outdoor Education 110

- Outdoor Education 110 provides opportunities for students to explore various outdoor adventure activities such as camping, kayaking, canoeing backpacking, hiking, skiing, snowshoeing, orienteering and rock climbing.
- From these experiences they will gain a greater insight, appreciation, concerns and knowledge about the outdoor environment and the opportunities that it holds for educational, recreational, and economic benefit.



Physical Education Leadership 120

- Do you enjoy organizing sports activities, tournaments intramurals etc.,?
- Would you like to share your skills and talents with others while experiencing new activities presented by your peers?
- Are you interested in developing your leadership potential through sport?
- This class also works with the middle level ASAP program.



Wellness Through Physical Education 110

- The goal of Wellness through Physical Education 11 is to promote healthy active living for life.
- Students will:
 - Experience a variety of wellness activities
 - Design a wellness opportunity for a community group
 - Create and implement a personal healthy active living plan





One science is
required for
graduation

Science

Automotive Electrical Systems 120

- Prerequisite: Internal Combustion Engines 110
- This course introduces the student to the theory and operation of basic electrical systems. It covers electron
- theory, electric circuits, circuit protection, switching devices and magnetism. These are related to the operation and service of batteries, starting motors, alternators and ignition systems.

Biology 112, 111 and Biology 122, 121

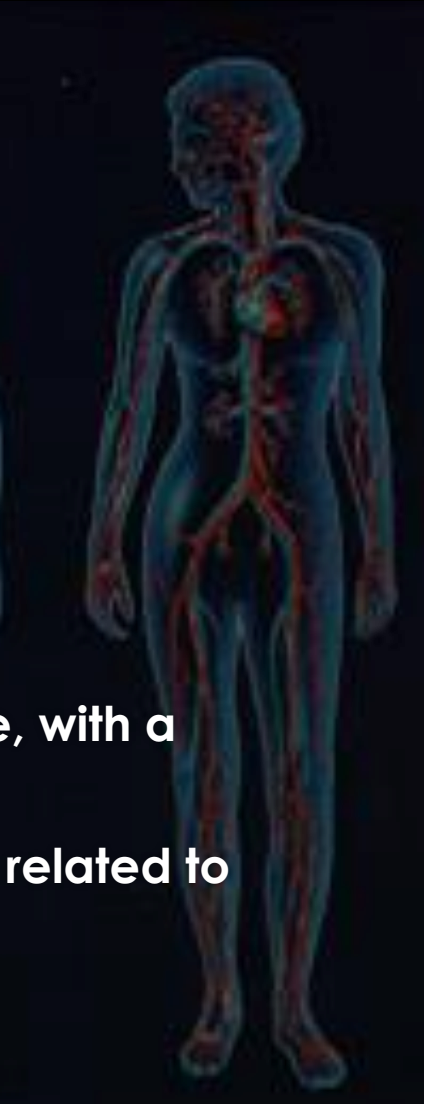
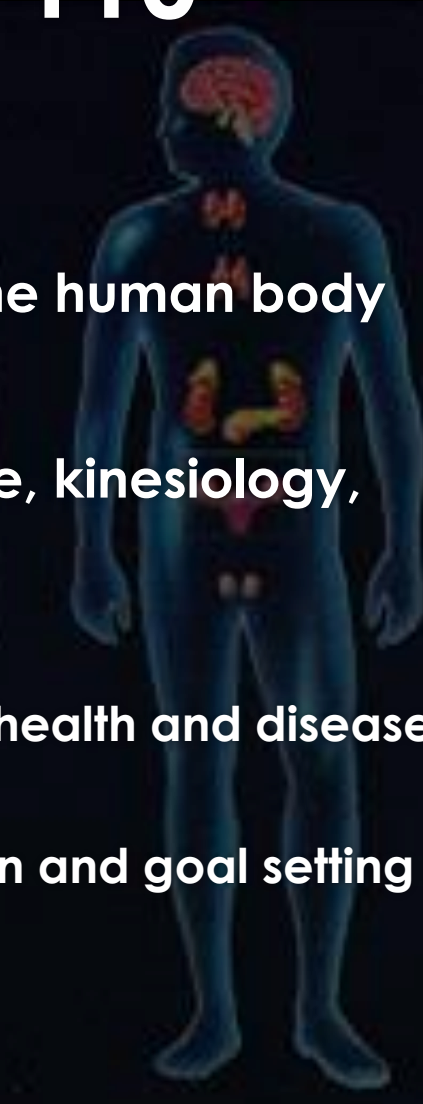
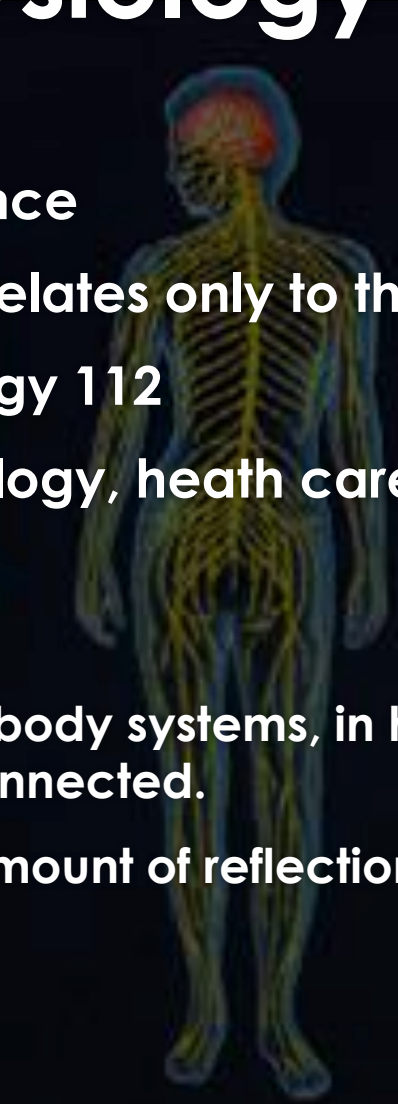
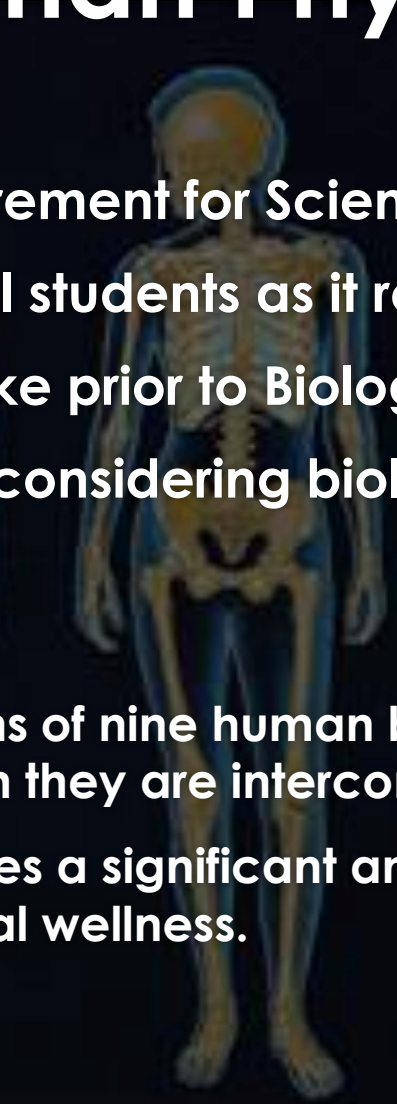
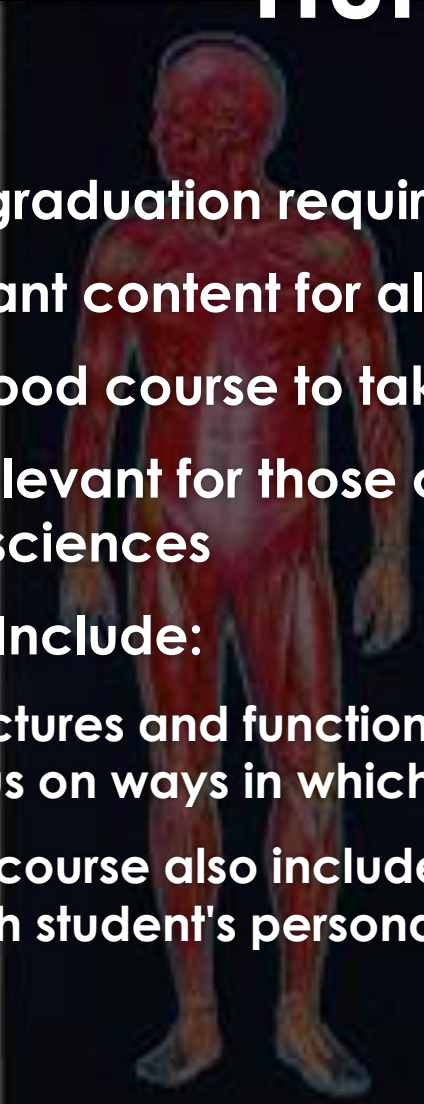
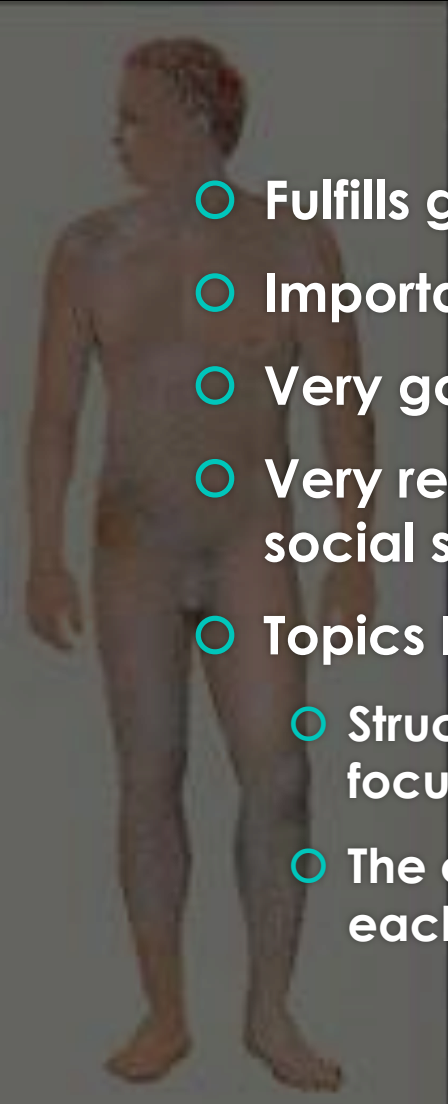
- BIOLOGY 11
- This course is an introductory course in the field of biology.
- The course places emphasis on the basic biological principles needed for further study in biology.
- Concepts include:
 - cellular structure and function,
 - biodiversity and maintaining dynamic equilibrium part 1.
 - Laboratory work supplements regular classroom instruction, with concentration in the areas of microscopy and dissections.
- BIOLOGY 122
- Biology 122 is designed for grade 12 students.
- A student who plans to enter university programs that are life
- science oriented (nursing, pre-med, pharmacy, etc.) should complete both Biology 112 and Biology 122.

Chemistry 112, 111 & Chemistry 122,121

- These courses are college or university preparatory programs used as an entrance requirement for science-related university courses, some technical school courses, and nursing.
- The first-year concepts to be learned include:
 - matter and energy in chemical change
 - matter as solutions and gases
 - quantitative relationships in chemical change
 - and chemical bonding in matter
 - familiarization with simple laboratory apparatus and techniques
- The second-year concepts to be learned include:
 - The diversity of matter
 - Organic Chemistry
 - Thermochemical change
 - Equilibrium
 - Acids and bases in chemical change
 - Electrochemical changes.
 - The laboratory program continues with the same objectives as in Chemistry 112 and expands upon the safe use of various chemicals and equipment.

Human Physiology 110

- Fulfills graduation requirement for Science
- Important content for all students as it relates only to the human body
- Very good course to take prior to Biology 112
- Very relevant for those considering biology, health care, kinesiology, social sciences
- Topics Include:
 - Structures and functions of nine human body systems, in health and disease, with a focus on ways in which they are interconnected.
 - The course also includes a significant amount of reflection and goal setting related to each student's personal wellness.



Introduction to Environmental Science 120

A satellite view of the Earth, showing the Americas. The image is dark, with the continents appearing in shades of green and brown against the deep blue of the oceans. A large, swirling white cloud formation is visible in the upper left quadrant.

○ Curriculum highlights:

- Environmental issues, human population growth and resource limitations
- Sustainable practices and environmental awareness
- Investigating and environmental issues
- Project and collaborative work

Physical Geography 110

- Physical Geography 110 is the study of the physical features of the earth and their effects on mankind.
- It examines the interaction among all components of the environment and emphasizes the relationship between the land and humanity.
- It examines climatology and meteorology and their impact on people.
- It is designed to develop an understanding of the basic principles of the geographic method, which will enhance transferable skills.

Physics 112, 111 & Physics 122, 121

- In Physics 11, you learn about:
- How and why objects move in 1-dimension, using Newtonian physics and energy analysis
- How and why energy itself changes and moves

- In Physics 12, you learn about:
- How and why objects move in 2-dimensions, including sliding and rotational motion, projectiles, and circular motion
- Field theory and fundamental forces in the universe, including gravitational, electrostatic, and magnetic forces

Both courses rely heavily on preexisting math skills, content from prerequisites, and application of science skills in hands-on lab activities.



**One is required
for Graduation**

Fine Arts / Life Role

Fine Arts / Life Role

Automotive Electrical Systems 120 (Note: if used as a Science credit, it is not permitted in the Fine Arts/Life Role)

Career Explorations 110

COOP ED 120

Culinary Technology 110 /120

Dramatic (Theatre) Arts 110/120

Electrical Wiring 110

Entrepreneurship 110

Fashion Design 120

Fashion Technology 110

Framing and Sheathing 110

Goals, Growth and Grit 120

Graphic Art and Design 110

Housing and Interior Design 120

Individual and Family Dynamics 120

Internal Combustion Engines 110

Introduction to Applied Technology 110

Metals Fabrication 110

Metals Processing 110

Metals Processing 120

Mill and Cabinet Work 120

Music 111/112

Music 120

Music 122

Outdoor Education 110

Power Train and Chassis 110

PE Leadership 120

Reading Tutor 120

Residential Finish 120

Tune-up and Emissions 120

Visual Arts 110/120

Wellness through Physical Education 110



MARINERS

French

**Parlez-
vous Français?
Courses
offered
in French for
students in
French
Immersion**

- FI Language Arts 110 (mandatory)
- FI Language Arts 120 (mandatory)
- FI Modern History 112 (mandatory)
- FI Individual and Family Dynamics 120 (Grade 10)
- FI Media Studies 120 (Grade 12) or
- FI Law 120 (Grade 12)
- FI Writing 110 (Grade 11)



Offered mostly on-line unless there is enough interest for a class

Business



Accounting 120

- *This course is designed for students in their final year who are planning to attend university or community college and taking Business.*
- *The course covers the accounting cycle and includes the development and use of journals, ledgers and related books of accounts as well as a computer accounting package if time permits.*
- *Basic accounting principles and concepts are discussed at some length to help students understand the conceptual framework of accounting.*
- *The preparation and use of the financial statements of a proprietorship, partnerships, and corporations are studied in some detail.*
- *Students should have an interest in math but will not be learning new or complex math but will learn to analyse business transactions.*



Business Organization and Management 120

- What motivates employees the most? (Spoiler: It's not money!)
- How are businesses impacted by customers, technology and the law?
- Should businesses act ethically? Why?
- What does a leader do? What's the best way to lead people? How do you lead a company?

- In this course, students will develop the critical thinking and problem-solving skills needed to excel in post-secondary learning.
- This course is designed to have a high degree of student engagement and student lead exploration
- The textbook for this course is used in some university business courses.



Cooperative Education 120

- Cooperative Education 120 combines theory with practical learning experiences through work placement opportunities.
- Students learn and practice Employable skills; working inside and outside of the classroom
- Placements are in a vast array of workplace settings
- Virtual coop placements with industry experts in many areas
- Application is required



Eco

Economics 120

- This course provides a basic understanding of our economic system and how it works
- This course compares different economic systems
- This course looks at different types of business organizations
- The students will have a chance to understand the effect of Supply and Demand on the Market
- The students will acquire an understanding of the stock market and how it affects their personal finances.
- Students will be encouraged to keep up to date with current economic issues and be ready to discuss them
- Students will be asked their position on current economic issues and various decisions involving the economy.



Entrepreneurship 110

- Do you have a great idea that could make millions?
- Like to watch Dragon's Den?
- Think you could come up with a brand-new dessert idea?
- Wonder what new flavor of cereal kids will be begging their parents to buy them in the future?
- How do people start a business anyway?
- Learn how entrepreneurs become successful
- Be creative and innovative
- Develop a product or service and sell it at the Campus Market!



Hospitality and Tourism 110

- This course explores the fastest growing sector of the Canadian economy – the Hospitality and Tourism Industry!
- Topics include:
 - Accommodations
 - Food and Beverage
 - Adventure Travel and Recreation
 - Events and Conferences
 - Travel and Trade
 - Tourism Services and Transportation



Idea Centre (on-line with two teachers from Saint John)

- ① The IDEA (Innovation, Development, Entrepreneurship and Action) Centre program, facilitates student learning in the fields of entrepreneurship and community action.
- ① This course is a unique leadership opportunity for motivated high school students seeking a challenge and craving the opportunity to take their ideas beyond the walls of the school.
- ① The program develops student- led projects with support from local entrepreneurs and social innovators. By connecting to mentors in the private and public sector, the course provides a base from which students can productively receive support and guidance and ultimately grow their ideas into successful ventures.
- ① More information can also be found here www.ideacentresj.ca



MARINERS

Fine Arts

Dramatic Arts 110 & Theatre/Dramatic Arts 120

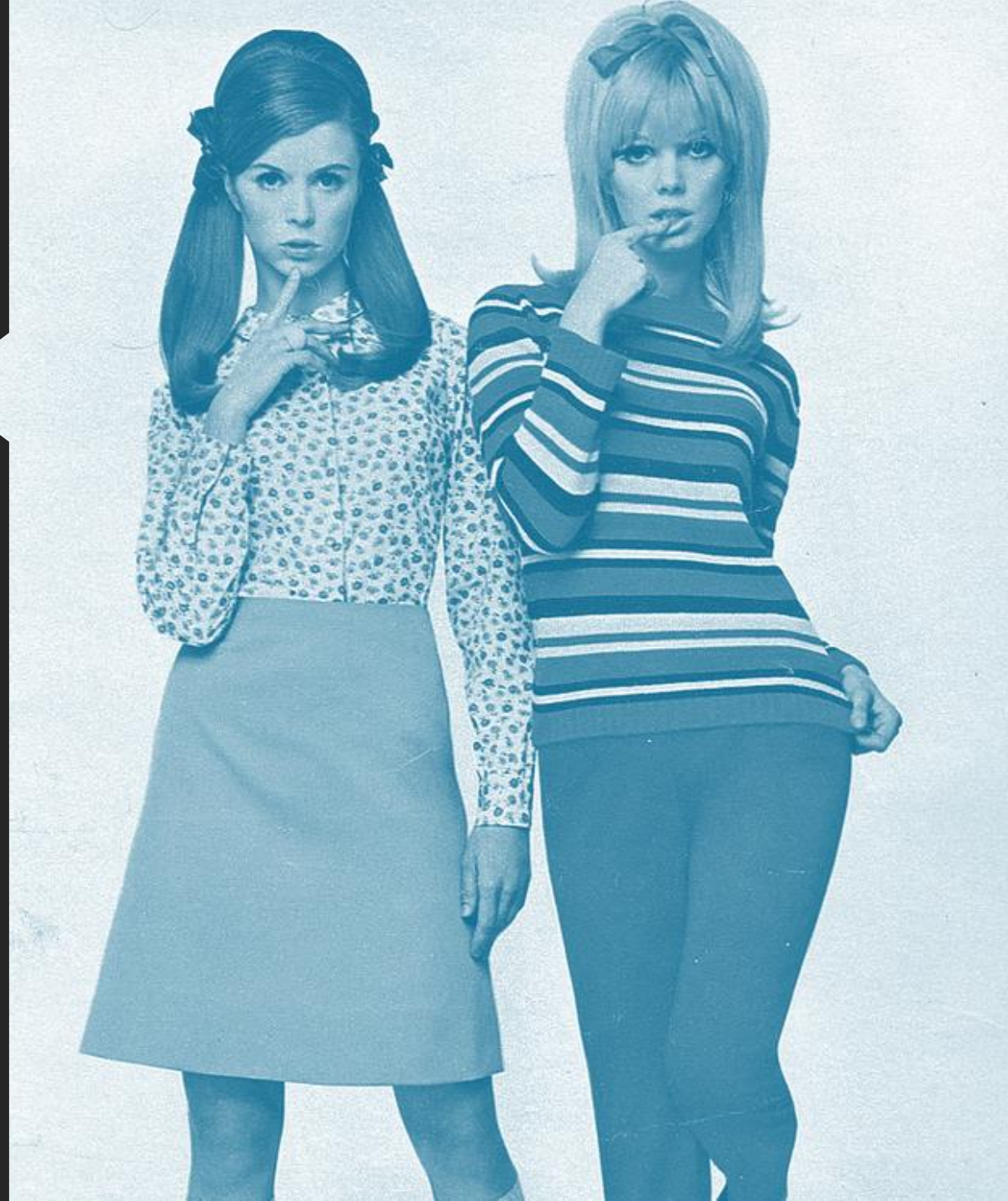
Theatre Arts 120 = Fine Arts Life Role

- Theatre Arts is a performance-based class. We work on the basics of performance including set, costumes, props, makeup, etc. We dance, we view pieces, we perform! Students will participate in the ever popular, “High School Is...”
- No experience necessary!
- Afraid of public speaking and standing in front of an audience? This class is for YOU!



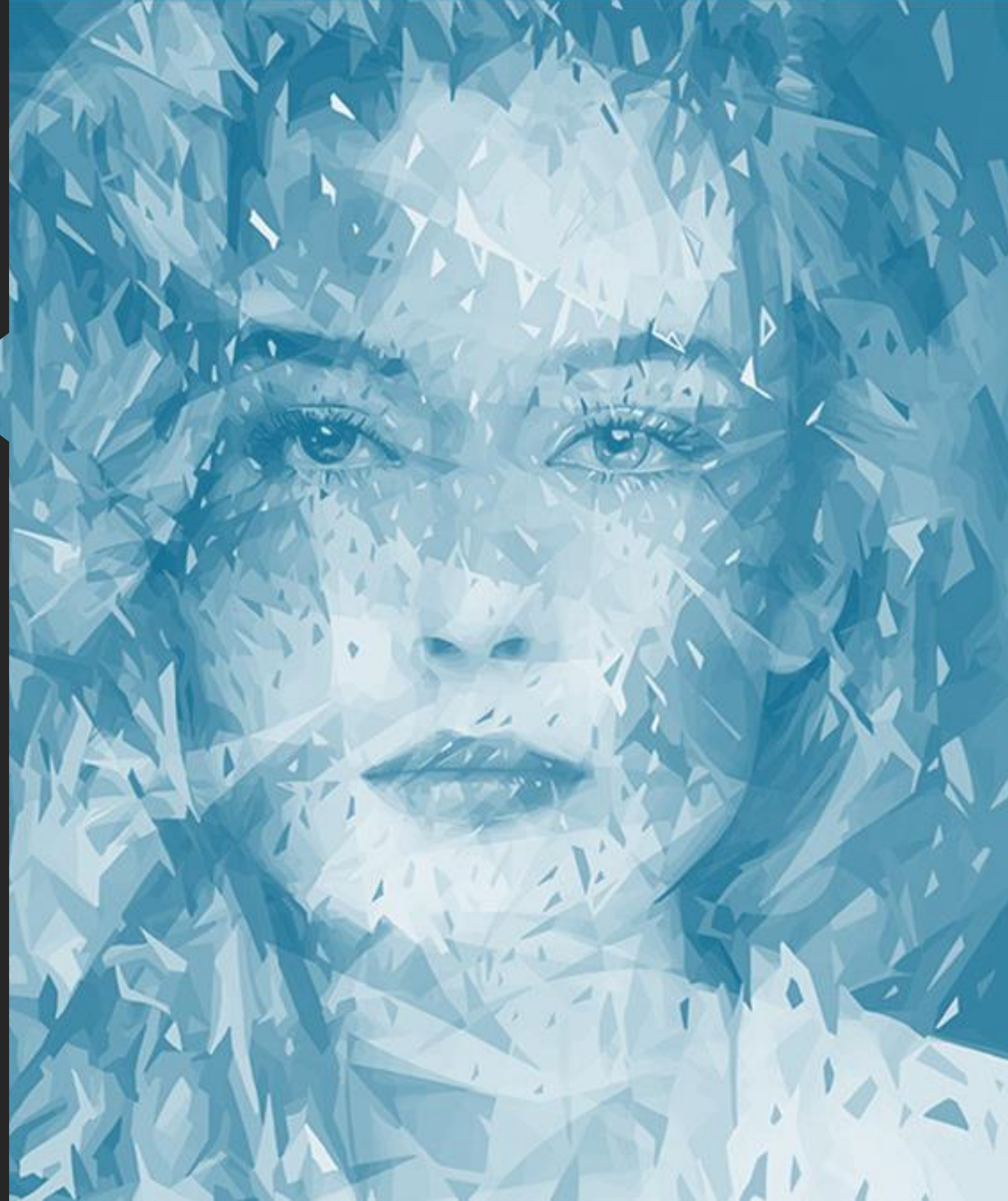
Fashion Technology 110 (Fine Arts Life Role) & Fashion Design120

- An in-depth study of fashion and the fashion industry.
- If you are interested in a career in the apparel industry in any capacity, this course is for you!
- Topics include:
 - Psychosocial aspects of clothing
 - History of fashion
 - The application of design elements and principles in fashion
 - Wardrobe planning
 - Application of colour theory
 - Fashion drawing
 - And basic textile and clothing construction



Graphic Art and Design 110

- Students examine the changing face of graphic and computer art as well as the history of print media.
- Explorations include:
 - Study of typography
 - Calligraphy
 - The application of text to all forms
 - Creating signage, billboards, school play and musical posters



Music 112

- MUSIC 11
 - Emphasis will be placed on both the practical aspect of music—performing in solos and ensembles and theory, ear training, and music history/appreciation.
 - Students will prepare to present a “solo” on an instrument or voice.
 - The aim of this course is the continuing development of well-rounded, knowledgeable, competent musicians at the high school level.



Music 122

- Prerequisite: Music 11
- Music 122 is designed for the advanced and/or serious student of music. It follows a similar format as Music 11.
- Included are the following topics: technical/performance skills, theory and composition, Canadian music history,
- Canadian music industry careers and music criticism.
- The course assumes an interest in improving upon and expanding areas of musical knowledge and expertise.



Visual Arts 110 & 120

- These courses offer students a deeper understanding of the elements and principles of drawing, painting and sculpture.
- There is an emphasis on studio work and portfolio production
- Art history and contemporary art will also be studied.





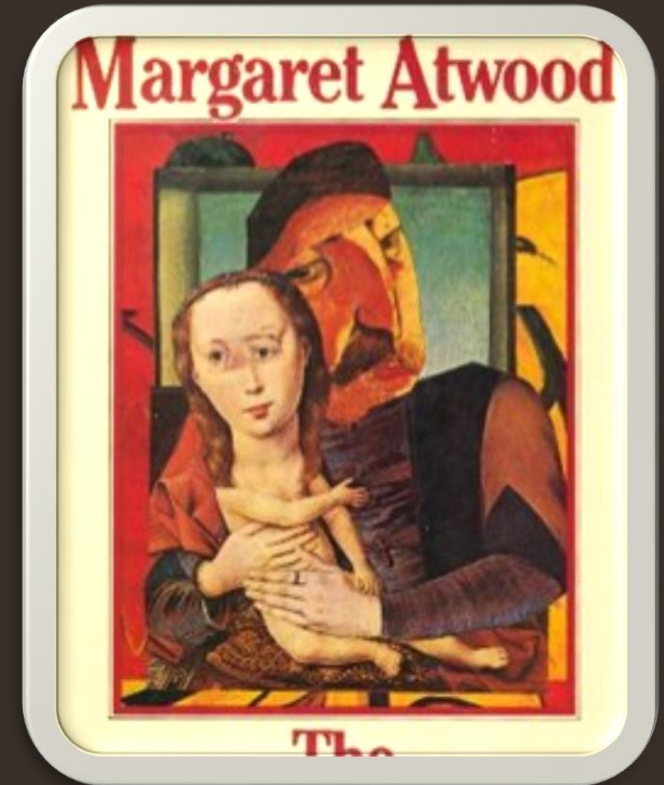
MARINERS

Languages

Canadian Literature 120

This course focuses on reading a variety of different genres from Canadian writers and how these writers help create a Canadian identity.

Genres include prose, drama, poetry, film, music and radio



Journalism 120

Students will study print and electronic journalism.

Students need to have a good understanding of ethics, democracy and freedom of speech.

This is an English Language Arts elective and as such students should have good reading and writing skills.



Media Studies 120

Students will study all facets of the media including television, film, internet and social media.

This is an English Language Arts elective and as such students should have good reading and writing skills and be comfortable speaking and presenting in front of the class.

This is a project-based class. Students must know how to film and edit their own videos.



Post Intensive French 110 & 120

Post-Intensive French is a literacy-based, non-immersion program for students choosing to continue to learn French as a second Language.

If you love to chat in class, love having teacher and student exemplars to assist with assignment, love going on fun field trips, love play games, and sharing your learning with elementary aged students --- all in French... Then this class is for you!

Topics include: Photography, it's not fair, mysteries, the future, careers, the environment , and much more!



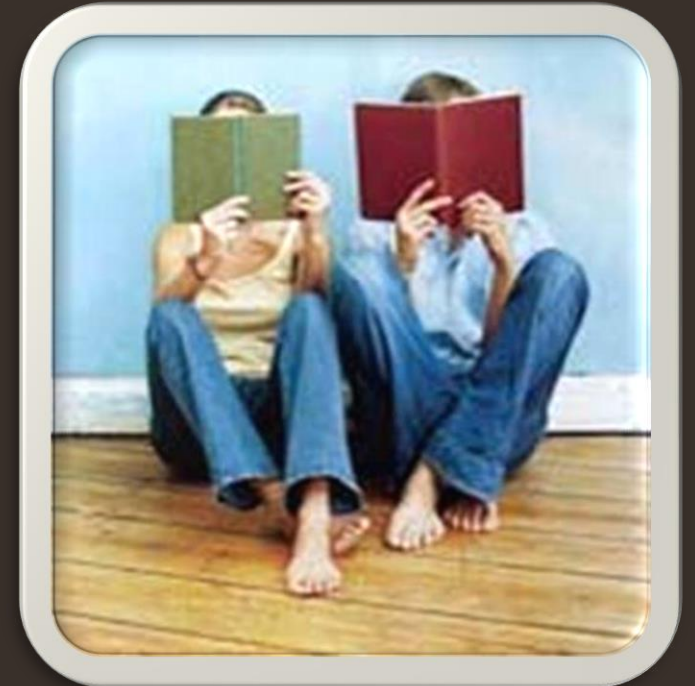
Reading Tutor 120

Future Teachers!

Senior student tutors are paired with younger struggling readers

Tutors will be introduced to techniques and methods for teaching reading and writing strategies

Application required.



Spanish 110 & 120

Introductory courses to one of the world's most widely spoken languages.

These courses are designed for people with no background in Spanish.

Class presentations, films and dialogues make these courses a very active learning experience.

These courses are excellent preparation for post-secondary Spanish courses



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.

We will explore the qualities of great writing by reading and practice our skills by writing. Students work will be assessed throughout the course and culminate in a portfolio.





MARINERS

Local Options

Cosmetology 110

Will not be offered in 2020-2021

- Have you ever considered a career in the Beauty Industry? Hair, nails and skin care?
- Cosmetology 110 is an Introduction to Hairstyling and Esthetics and is the only course of its type offered in New Brunswick Schools. Students in this course will learn general haircare and hairstyling, general skin and nail care and will be exposed to the Cosmetology Industry through class trips and guest speakers.
- At the end of this course, students will have developed basic Hairstyling skills in particular, and will be better equipped to make an informed decision of a suitable career path in the Cosmetology field.
- There is a fee associated with the purchase of a mannequin for this course.



Photography 120

Photography 120 gives you the opportunity to sharpen your camera skills and harness your creativity through visual storytelling

Some topics explored include:

- Camera Basics
- Composition Techniques
- Elements and Principles of Design
- Film and Digital Techniques
- Photo Editing Software
- Analyzing/Critiquing Photographs
- History of Photography
- Developing a Portfolio
- Creating an Exhibit

* Having your own DSLR camera would be an asset but is not required



Yoga 110 & 120

- Do you want to:
 - Increase your flexibility?
 - Increase your strength?
 - Learn to meditate?
 - Sleep better?
 - Find peace and quiet in your busy life?
- Then Yoga is the course for you! No experience required!





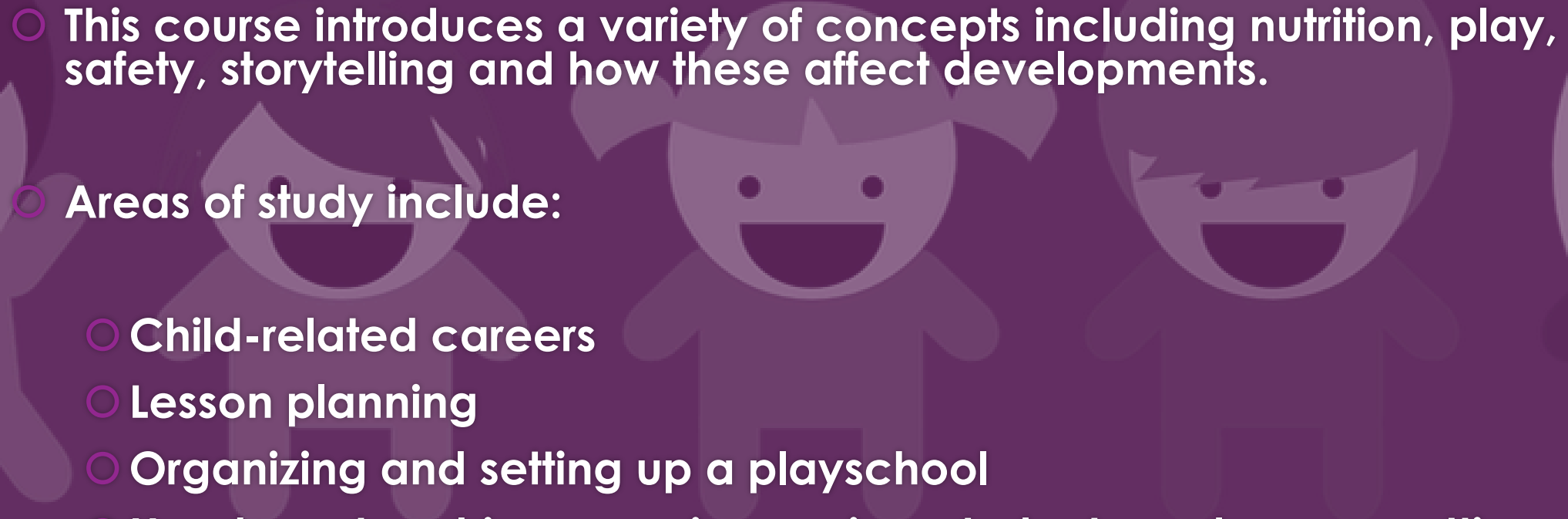
MARINERS

Family Studies

Child Studies 120

- This course involves a study of reproduction, conception, pregnancy, childbirth, infancy and children up to the age of five.
- Participation in a preschool experience allows students excellent insight into the responsibilities and challenges of parents and teachers.
- This course is beneficial to those students whose future career plans involve working with children in any field.

Early Childhood Services 110

- This course introduces a variety of concepts including nutrition, play, safety, storytelling and how these affect developments.
 - Areas of study include:
 - Child-related careers
 - Lesson planning
 - Organizing and setting up a playschool
 - Hands-on teaching experiences in a student run daycare setting
- 
- The background features a row of four stylized, smiling cartoon children. From left to right: a boy with dark hair, a girl with dark hair in pigtails, a boy with dark hair, and a girl with light hair. They are all depicted with simple, rounded bodies and large, open-mouthed smiles.

Individual and Family Dynamics 120

- This course is an elective for students who may wish to pursue fields of study such as: social services, family law, careers in counseling, psychotherapy, law enforcement, and the field of medicine.
- This course focuses on understanding yourself, building self-confidence, relationships with parents and peers, dating, coping with stresses inside the family, (violence, divorce, and remarriage) and coping with stresses outside the family, (drugs, alcohol, sex, date rape, and sexually transmitted diseases).

Nutrition and Healthy Living 120

- Nutrition for Healthy Living 120 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.
- Special emphasis is given to the study of nutrients; how they work in the human body, identifying the best food sources of each nutrient, and recognizing the effects of using too little or too much of a nutrient.
- Current issues relating to chronic diseases, lifestyles and food technologies will also be discussed.
- This is an excellent course for those concerned with personal wellness or for students who wish to pursue a career in science and nutrition or health-related fields.



MARINERS

Personal Interest

Personal Interest Course 110 & 120

- PIC are elective courses. The course was designed to offer more flexibility to personalize within the current credit system. This course promotes learner agency, personalized learning, and provides students with the time, opportunity and resources to develop or pursue individual interests. The course is designed by the student with the support of the teacher and/or other mentors in the school community (local/global)
- This course will be assessed by using the NB Global Competencies (practical, transferable skills) document. This includes:
 - Self-Management and Self Awareness Innovation
 - Creativity and Entrepreneurship
 - Communication
 - Collaboration
 - Critical Thinking and Problem Solving
 - Sustainability and Global Citizenship





MARINERS

Humanities

Canadian Geography 120

- This course has been designed to encourage students to become actively involved in learning more about their country.
- It examines Canada's position in the world and attempts to provide the student with some understanding of our present circumstances.
- The geology of Canada's regions and how it relates to resource development will be examined.
- It attempts to identify the issues and decisions, which lie ahead for Canadians, and attempts to establish a personal framework for dealing with these issues.
- A wide variety of audio-visual materials are used to broaden the scope of the work



Canadian History

122

- This course involves the history of Canada from “Confederation” to modern day Canada. The course is covered by
- a topical approach, such as Confederation, the building of railways, the natives, gold, Canada at war, FLQ, and
- Foreign Policy, etc. Topics will be covered through lectures, readings, films, and guest speakers.



Indigenous Studies 120

- This course primarily designed to promote understanding of Mi'kmaq and Wolastoqiyik perspectives on life in the Maritime Provinces.
- Past, present and future implications are explored through an often intersectional and interdisciplinary approach that looks at elements such as land, language, sport, story, sovereignty, and various artistic forms.
- Awareness is also enhanced by evaluating Indigenous contexts within the National and Global spheres.
- Aboriginal pedagogical (teaching and learning) styles are also acknowledged and incorporated to develop both analytical and intuitive capacities in students.



Law 120

- Students are encouraged to discuss current news cases involving the law
- Current court decisions are followed and discussed.
- Topic covered:
 - The Canadian Charter of Rights and Freedoms
 - Criminal Law
 - Civil law
 - Family Law
 - The Law of Will and Estates
 - Property Law



Modern History

112/113

- This is a course which covers the main political, economic, social and intellectual developments since 1789.
- Major topics covered include:
 - The French Revolution
 - The unification of Germany and Italy
 - World War I (causes, events and results)
 - Totalitarianism (its development and consequences)
 - World War II (causes, events, and results)
 - The Holocaust
 - The Cold War
 - Post war developments in the third world.



Political Science 120

- Just what the heck is Political Science, anyway?
- Why do people come together to form a society?
- Where do ideas like justice, liberty, and democracy come from?
- What is government?
- How does our government work?
- What do our politicians REALLY DO?
- Why do we value free speech?
- How free should free speech be?
- Why do we value freedom and democracy?
- What do YOU value and why?

- Come find out in Political Science 120!



Reading Tutor 120

- Future Teachers!
- Senior student tutors are paired with younger struggling readers
- Tutors will be introduced to techniques and methods for teaching reading and writing strategies
- Application required.



Sociology 120

- **Sociology 120 will increase students' awareness of themselves and others as social beings and the social processes that shape the world in which they live.**
- **Students will develop a better understanding of the ways in which attitudes and values develop and enter individual and group actions.**
- **Students will also develop an awareness of the problems confronting contemporary society.**
- **The basic methods of social scientific investigation and the methods of which data are presented will be examined.**





MARINERS

Technology

Culinary Technology 110 & 120

- Culinary 110 is an entry-level, hands-on food service training course.
- You will learn culinary standards in food service and food preparation through theory and hands-on practice.
- You will demonstrate your skills in Master Chef Challenges and operation of the Crusader Cafe.
- Culinary 120 is a continuation of Culinary 110.
- You will expand our skills in food preparation and food service.

Computer Aided Design 110

- This is an introductory course designed to give students knowledge and skill in the drafting area.
- Through sketching and computer assisted drawing (CAD), students gain the skills necessary to both visualize and present ideas graphically.
- This course will appeal to students interested in architecture and/or engineering.

Computer Science 110

- Computer programming is like solving puzzles.
- The objectives of this course are to introduce students to the world of computers and their impact on society, computer science concepts, and fundamental problem-solving skills.
- Course emphasis is on using the Python computer language and problem-solving skills.
- Students will acquire the skills needed to write computer programs and solve computer related problems.

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.**
- **This course provides a good foundation for students who wish to pursue a post secondary program in computer science.**

Cybersecurity 120

- In Cybersecurity 120 (CYBER120) students will be actively engaged in the design, development and evaluation of defensive cybersecurity projects, including awareness, concepts and challenges.
- Students will demonstrate operational skills specific to supporting and securing digital technology through hands on activities.

Electrical Wiring 110

- This is a residential wiring course with an emphasis on the lighting and power circuits normally found in a single-family dwellings.
- Students will progress from a study of the basic equipment, supplies and techniques used in residential wiring to the design and placement of the total electric circuit requirement of a single-family dwelling as prescribed by the Canadian Electrical code.
- Interested in a career in the electrical technology or electrical trade area? This course is for you!

Framing & Sheathing 110 & Residential Finish 120

- Did you enjoy playing with Lego when you were younger?
- Do you like building things?
- Do you want to get out from behind a desk?
- These construction courses focus on the acquisition of skills and knowledge associated with the completion of a modern wood frame residential building and the safe operation of carpentry tools and equipment.

Housing and Interior Design 120

- The purpose of this course is to assist students in the knowledge and application of basic design principles and guidelines, to develop sensitivity to good design and a discriminating taste.
- Topics include:
 - Types of housing
 - Basic floor plans
 - Furniture
 - The principles and elements of design

Internal Combustion Engines 110

A close-up photograph of a classic V8 engine, likely from a muscle car. The engine is highly polished and features a prominent chrome air filter with a red pleated top. Red spark plug wires are visible, snaking across the engine. The background is dark, making the metallic components stand out. The text is overlaid on the left side of the image.

- Interested in vehicles ?
- Want to learn about how engines work?
- Interested in working in the automotive industry after high school?
- In this course you will learn the safe operation of tools and equipment used to disassemble, diagnose, service and repair engine components and systems.

Introduction to Applied Technology 110

- Interested in the trades, but not sure which one is for you?
- This is a great introductory course that will expose you to various skills that can prove useful for those wanting to become more proficient with hands-on applications in fields including: carpentry, drafting, workplace safety, and WHMIS
- Priority is given to students in grade 10
- **NO EXPERIENCE REQUIRED!**

Metal Fabrication 110 – Welding

- Have you ever thought about how much in your life involves welding?
- By 9am you have already used 5 things that have been welded!
- In this course you will develop basic skills in the safe use of welding equipment, oxygen-acetylene and plasma cutting equipment used to cut and form metals.

Metals Processing 110 & 120

- Like working with your hands?
- Have you ever thought about machines and how they work?
- In this course you will develop skills in the operation of lathes, grinders and milling machines.
- You will also learn a variety of processes use to form and repair metal parts for machines and tools.
- Turn, burn and learn- some creative metal!

Mill and Cabinet 120



- This course will be of interest to students exploring career opportunities in the building contraction industry as well as those with a general interest in woodworking.
- In this course you will:
 - Learn the side operation of woodworking tools and equipment
 - Learn project planning and estimating
 - Build a series of wooden products.

Powertrain and Chassis 110

A photograph of a vehicle chassis and powertrain assembly, including the engine, transmission, and suspension components, resting on a gravel surface. The assembly is shown from a side-rear perspective, highlighting the engine, transmission, and various suspension parts like the frame, control arms, and wheels.

- This course is designed to introduce students to the service and maintenance of the automobile chassis and power train.
- Emphasis is placed on the function, repair, and replacement of components.
- Topics include:
 - suspension assemblies
 - brakes
 - steering
 - wheel bearings
 - tires
 - and transmissions
 - differential and drive lines