



Course
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Mathematics

Math Pathways

Straight to Graduation

- Grade 9 A
- Grade 9 B
- Geometry, Measurement and Finance 10
- Financial and Workplace Math 110
- Financial and Workplace Math 120 or NBCC Skilled Trades Math 120

NBCC Skilled Trades Math 120
is an additional math course open to students

Graduation PLUS

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

Graduation and keeping my options open!

- Grade 9 A
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- Pre-Calculus 110
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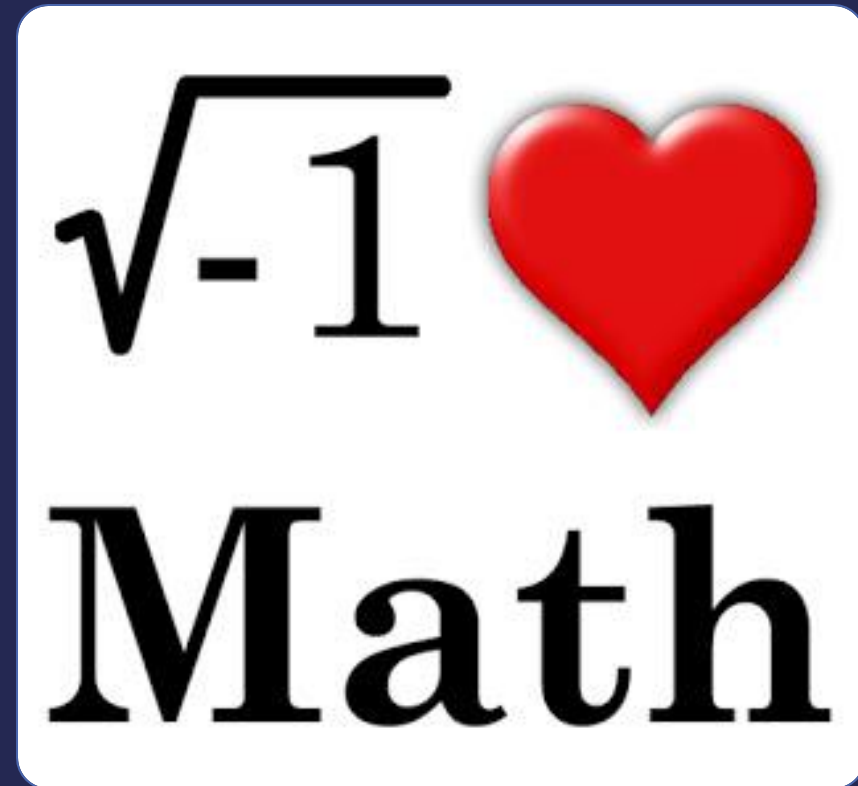
Finance and Workplace Math 110

- 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.



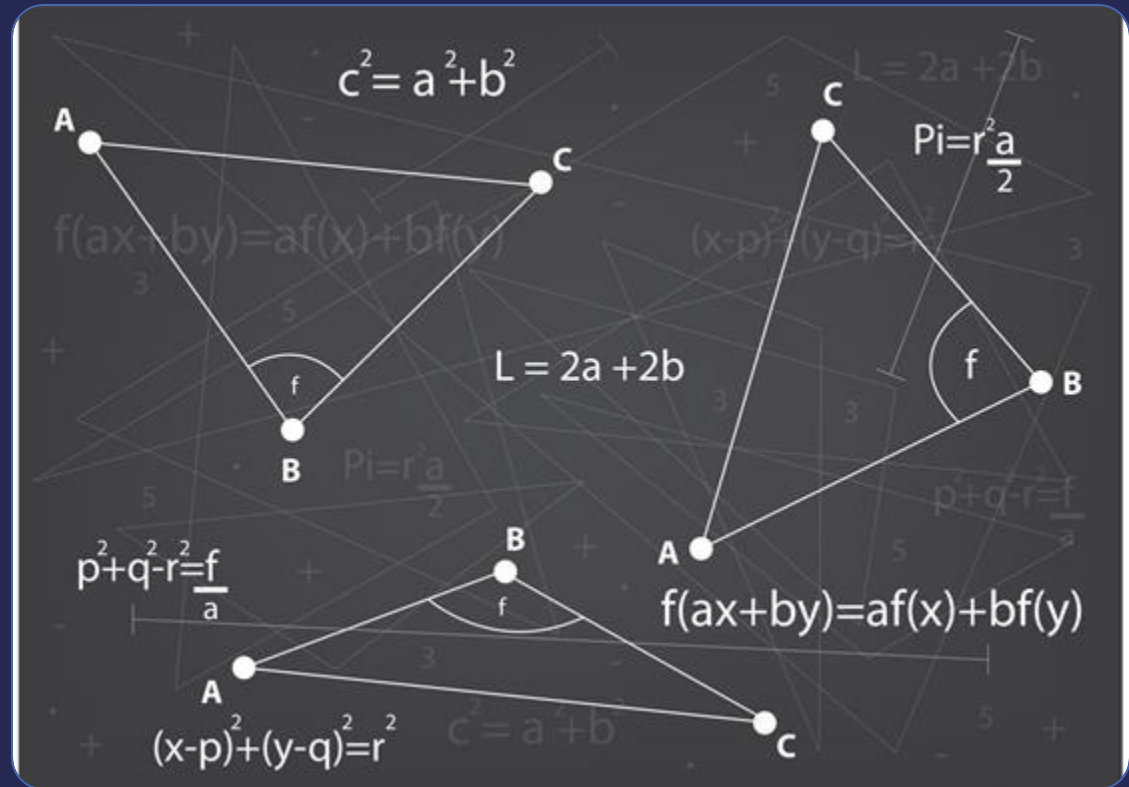
Finance and Workplace Math 120

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



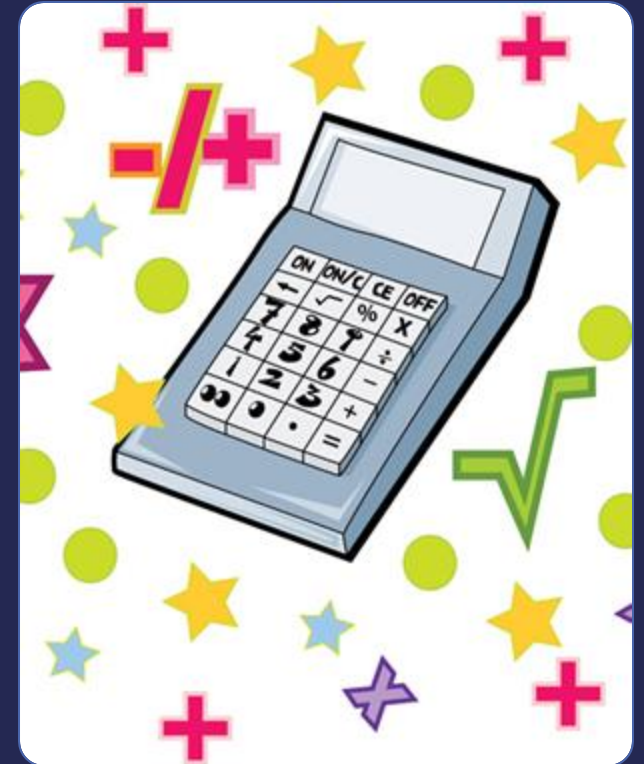
Foundations 110

- 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
- 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.
- Such as:
 - Bricklaying, carpentry, Electrical:Construction, Electrical: Industrial, Fuels Technician, HVAC: Sheet Metal Fabrication, Industrial Mechanics, Mechanical Technician, 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 Technician, Automotive Service Technician, Automotive Technology, Heavy Equipment Service Technician, Marine Diesel Mechanics, Motorcycle Repair, Truck and Transport Service Technician.



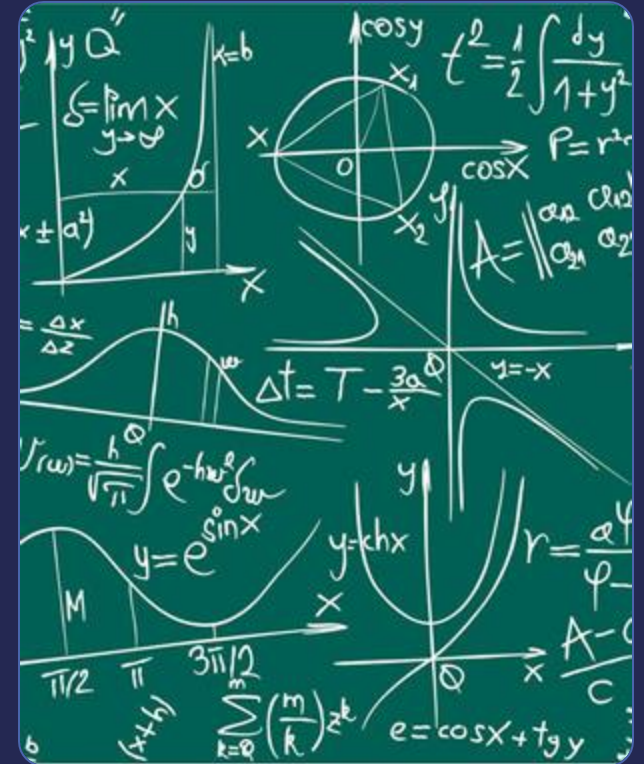
Pre-Calculus 110

- 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
 - Catesian Trigonometry



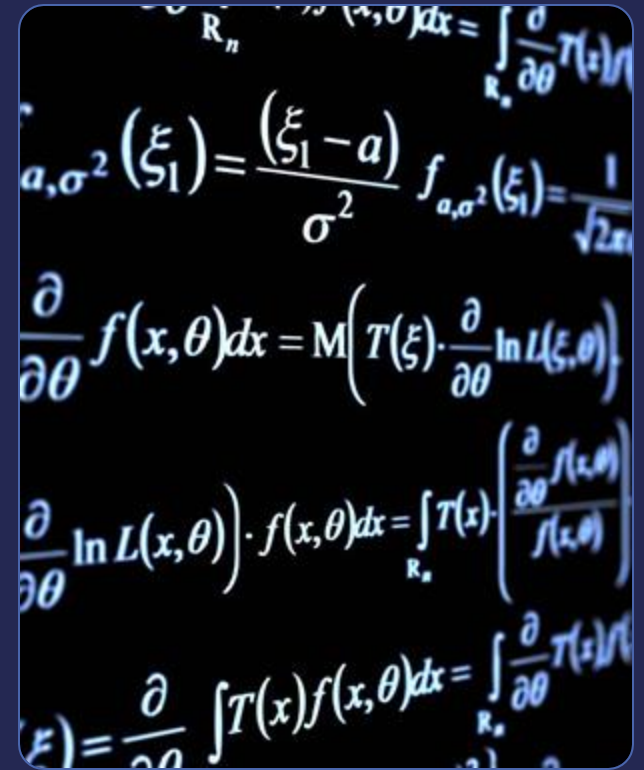
Pre-Calculus A 120

- This course is required for most science, business and engineering 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 120 B

- This course is required for most science, business 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


$$f_{a,\sigma^2}(\xi_1) = \frac{(\xi_1 - a)}{\sigma^2} f_{a,\sigma^2}(\xi_1) = \frac{1}{\sqrt{2\pi}}$$
$$\frac{\partial}{\partial \theta} f(x, \theta) dx = M \left(T(\xi) \cdot \frac{\partial}{\partial \theta} \ln L(\xi, \theta) \right)$$
$$\frac{\partial}{\partial \theta} \ln L(x, \theta) \cdot f(x, \theta) dx = \int_{\mathcal{R}_x} T(x) \cdot \left(\frac{\partial}{\partial \theta} \frac{f(x, \theta)}{f(x, \theta)} \right)$$
$$f(x) = \frac{\partial}{\partial \theta} \int T(x) f(x, \theta) dx = \int \frac{\partial}{\partial \theta} T(x) f(x, \theta)$$

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!



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.
- **Application is required**



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?
- If you are looking for a fun, challenging and active leadership opportunity than this course is for you!
- **Application required**



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





Science

Agriculture 110

- **Agriculture 110 falls within both the science cluster of courses and the career-connected cluster.**
- This course includes
 - the history and evolution of Agriculture in New Brunswick
 - Indigenous and settler contributions
 - everyday impacts on life in New Brunswick, and
 - specific types of Agriculture predominant in New Brunswick.
- Learners will
 - apply knowledge of plants and animals to local contexts, to introductory plant growing and animal care research skills,
 - apply skills and gain agricultural experience and/or work placements and
 - include a learner-led personal choice project or development of a business proposal and plan to summarize and demonstrate learning.

Automotive Electrical Systems 120

- ❑ Automotive Electrical Systems 120 falls within both the science cluster of courses and the career-connected cluster.
- ❑ 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 12

- ? Biology 12 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 11 and Biology 12.

Chemistry 112, 111 & Chemistry 122-121

- ❑ These course 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
 - ❑ Thermo chemical 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.

Environmental Geoscience 110

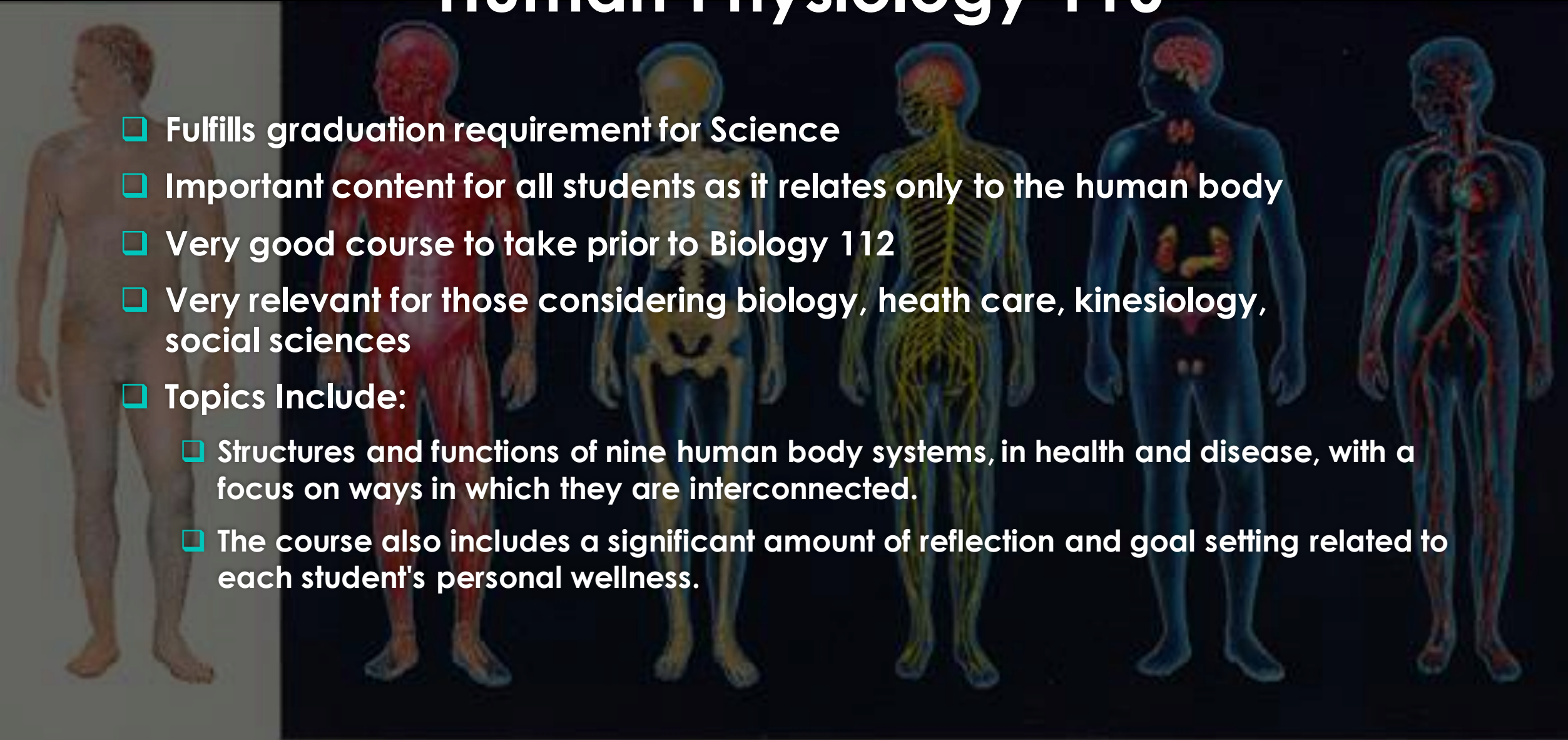
Geoscience is the study of planet Earth. It is interdisciplinary – drawing upon many other fields of study, including other sciences and geography.

Learners will

- Explore how Earth systems change over time
- Ask and answer questions about the planet
- Explore career options in geoscience fields
- Explore sustainable practices related to human interactions with the physical planet
- Explore cultural values in relationship to place
- Collect and analyze spatial positioning and geographic data
- Develop and carry out a field project

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 Electronics 110

- ❑ Want to know about...?
 - ❑ Computers TVs Sensors Microprocessors DVD players loudspeakers Amplifiers radio microphones cell phones
- ❑ Useful for courses such as:
 - ❑ Engineering
 - ❑ Computer Science
 - ❑ Instrumentation
 - ❑ Computer Networking
 - ❑ Technician
 - ❑ Power Systems
 - ❑ Automotive
 - ❑ Aircraft maintenance
 - ❑ And so much more!

Introduction to Environmental Science 120

❑ Curriculum highlights:

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

Physics 112, 111 & Physics 122, 121

? In Physics 11, you learn about:

- ? How and why objects move in 1-dimension, using force 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 (rearranging & solving equations, systems of equations, graphing, unit conversions, trigonometry, etc.), **content from prerequisites, and application of science skills in hands-on lab activities.**

Science 10:

Science for Sustainable Societies

- **Science 10 aims to help students**
 - improve scientific literacy skills (scientific inquiry, problem-solving, and decision making)
 - appreciate the nature of science as a systematic approach to understanding the world
 - discover that scientific knowledge produced this way is both durable and subjected to change
 - understand that science affects and is affected by society.
- **Core ideas and topics of study:**
 - **Power, Work, and Energy**
 - **Electricity and Electrification**
 - **Nuclear Technology**
 - **Chemistry Foundations (including classification of matter, chemical change and bonding, chemical models, chemical reactions)**

Forestry 110

- **Forestry 110 falls within both the science cluster of courses and the career-connected cluster.**
- **This course helps students develop an understanding of**
 - **the societal values placed on forested ecosystems,**
 - **how forests are managed to achieve these values, and**
 - **the interactions between humans and forests.**
- The learning activities promote literacy, knowledge, and skill development to enable students to meaningfully engage in public discourse around forests and the forest sector, by
 - exploring career pathways within New Brunswick's forest sector
 - developing and utilizing the interdisciplinary skills of observation, reflection, documentation, purposeful/intentional planning, goal setting, decision-making, and problem-solving.
 - taking a hands-on approach of both project-based and experiential learning which develops technical and adaptive skills.



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

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



French

Parlez-vous Français?

Courses offered in French for students in French Immersion

- ❖ FI Language Arts 110 (mandatory)
- ❖ FI Language Arts 12 (mandatory)
- ❖ FI Modern History 112
- ❖ FI Biology 112
- ❖ FI Foundations Math 110
- ❖ FI Canadian History 122
- ❖ FI World Issues 120
- ❖ FI Individual and Family Dynamics 120
- ❖ FI Introduction to Environmental Sciences 120
- ❖ FI Media Studies 120
- ❖ FI Physical Education Leadership 120
- ❖ FI Physical Geography 110
- ❖ FI Pre-Calculus 110
- ❖ FI Techniques de Communication Orale 110 & 120
- ❖ FI Wellness through Physical Education 110



Advanced Placement

Advanced Placement Courses



AP courses challenge students to work and participate at a higher level.



Students have the opportunity to write the external exam from the College Board with the potential to earn university credits.



More time in and out of the classroom required to complete assignments and projects



High expectations for critical thinking, analysis, synthesis, evidence, multiple perspectives, and clear written and verbal communications.

AP Biology 120

Study the core scientific principles, theories, and processes that govern living organisms and biological systems. You'll do hands-on laboratory work to investigate natural phenomena.

Course Content

- Unit 1: Chemistry of Life
- Unit 2: Cell Structure and Function
- Unit 3: Cellular Energetics
- Unit 4: Cell Communication and Cell Cycle
- Unit 5: Heredity
- Unit 6: Gene Expression and Regulation
- Unit 7: Natural Selection
- Unit 8: Ecology



AP Calculus AB 120

Explore the concepts, methods, and applications of differential and integral calculus. You'll work to understand the theoretical basis and solve problems by applying your knowledge and skills.

Course Content:

Unit 1: Limits and Continuity

Unit 2: Differentiation: Definition and Fundamental Properties

Unit 3: Differentiation: Composite, Implicit, and Inverse Functions

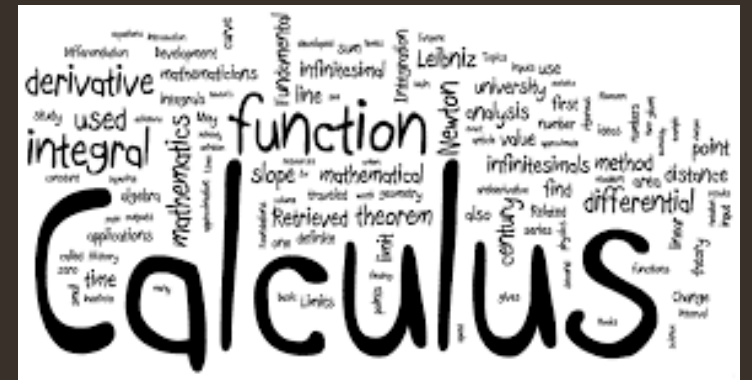
Unit 4: Contextual Applications of Differentiation

Unit 5: Analytical Applications of Differentiation

Unit 6: Integration and Accumulation of Change

Unit 7: Differential Equations

Unit 8: Applications of Integration



AP Chemistry 120

Learn about the fundamental concepts of chemistry including structure and states of matter, intermolecular forces, and reactions. You'll do hands-on lab investigations and use chemical calculations to solve problems.

Course Content

Unit 1: Atomic Structure and Properties

Unit 2: Molecular and Ionic Compound Structure and Properties

Unit 3: Intermolecular Forces and Properties

Unit 4: Chemical Reactions

Unit 5: Kinetics

Unit 6: Thermodynamics

Unit 7: Equilibrium

Unit 8: Acids and Bases

Unit 9: Applications of Thermodynamics



AP English Literature 120

Learn how to understand and evaluate works of fiction, poetry, and drama from various periods and cultures. You'll read literary works and write essays to explain and support your analysis of them.

Course Content:

Unit 1: Short Fiction I

Unit 2: Poetry I

Unit 3: Longer Fiction or Drama I

Unit 4: Short Fiction II

Unit 5: Poetry II

Unit 6: Longer Fiction or Drama II

Unit 7: Short Fiction III

Unit 8: Poetry III

Unit 9: Longer Fiction or Drama III



AP Human Geography

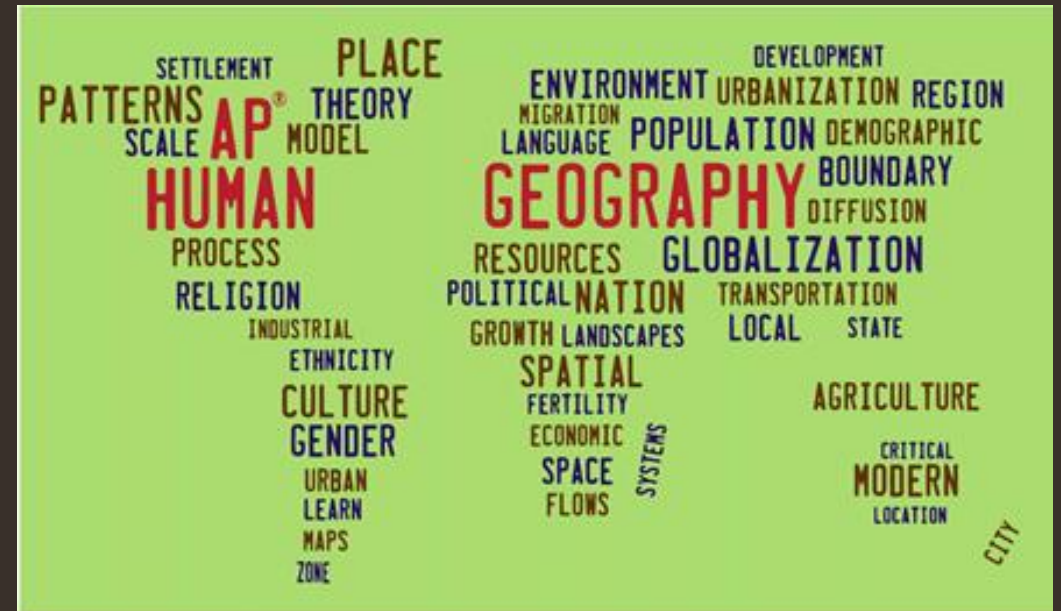
This class studies the interaction between people and the land where we live.

Examples of themes:

No prerequisite

Perfect first AP class
starting as early as
grade 10.

- Migration
- Population
- Language
- Religion
- Ethnic diversity
- Economics
- Cities
- Political Geography
- Human impact on the environment.



AP Physics 1 120

Learn about the foundational principles of physics as you explore Newtonian mechanics; work, energy, and power; mechanical waves and sound; and introductory, simple circuits. You'll do hands-on laboratory work to investigate phenomena.

Course Content

Unit 1: Kinematics

Unit 2: Dynamics

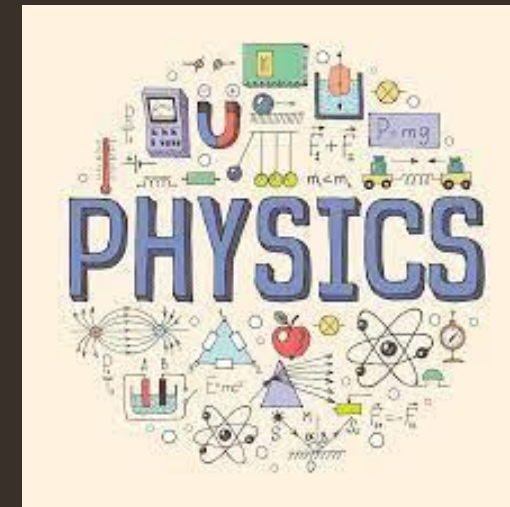
Unit 3: Circular Motion and Gravitation

Unit 4: Energy

Unit 5: Momentum

Unit 6: Simple Harmonic Motion

Unit 7: Torque and Rotational Motion

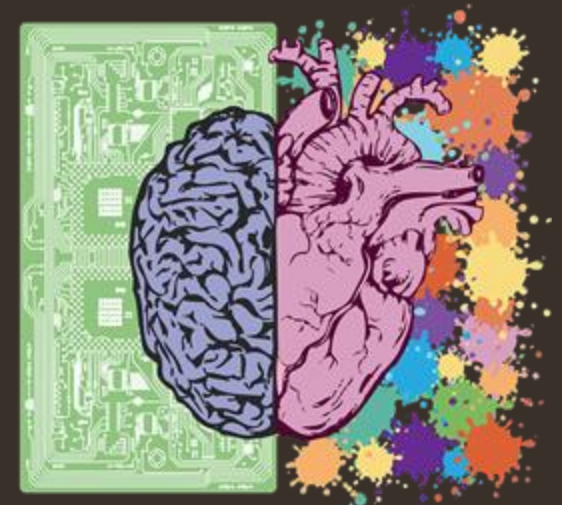


AP Psychology

The Advanced Placement Psychology course is designed to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals.

This course gives students college-level learning opportunities and instruction each day. The course will cover those topics generally discussed in a college level introductory (first year) psychology course. These topics include:

- the history of psychology as a science
- biological bases of behavior
- consciousness
- memory
- stress
- disorders and treatment
- ethics
- research methods
- sensation/perception
- learning
- cognition
- development
- personality
- social psychology



Students have the opportunity to write the external exam from the College Board with the potential to earn university credits.

AP Seminar

(must also choose World Issues 120)

Develop and practice the skills in research, collaboration, and communication that you'll need in any academic discipline. You'll investigate topics in a variety of subject areas, write research-based essays, and design and give presentations both individually and as part of a team.

Course Content

Big Idea 1: Question and Explore

Big Idea 2: Understand and Analyze

Big Idea 3: Evaluate Multiple Perspectives

Big Idea 4: Synthesize Ideas

Big Idea 5: Team, Transform, and Transmit



AP US History 120

Study the cultural, economic, political, and social developments that have shaped the United States from c. 1491 to the present. You'll analyze texts, visual sources, and other historical evidence and write essays expressing historical arguments.

Course Content

Unit 1: Period 1: 1491–1607

Unit 2: Period 2: 1607–1754

Unit 3: Period 3: 1754–1800

Unit 4: Period 4: 1800–1848

Unit 5: Period 5: 1844–1877

Unit 6: Period 6: 1865–1898

Unit 7: Period 7: 1890–1945

Unit 8: Period 8: 1945–1980

Unit 9: Period 9: 1980–Present





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.

The background features a vibrant, multi-colored crowd silhouette at the bottom. Above it, there are several stylized speech bubbles in orange, yellow, and green. One orange bubble contains a dark red hashtag symbol (#), and another yellow bubble contains a red Wi-Fi symbol. The main content is presented in a large orange box on the right side of the slide.

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.*

A close-up photograph of two hands shaking in a firm grip. The hands are wearing dark suit sleeves. The background is blurred, showing other people in a professional setting.

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 such as:
 - Horizon Health at the Saint John Regional Hospital
 - Trades Orientation Program HSTOP at NBCC
 - Royal Canadian Reserve
 - IDEA Centre: an entrepreneurial program
 - Virtual coop placements with industry experts in many areas
- Application is required



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.

A woman with long dark hair, wearing a black top, is seen from the back, drawing on a green chalkboard. She is holding a piece of chalk and has just finished drawing a lightbulb with the word 'IDEA' inside it. The chalkboard is covered in various business-related sketches and text, including a thumbs-up icon, a laptop, a computer monitor, a keyboard, a bar chart, a line graph, a SWOT analysis, and a city skyline. The word 'BUSINESS' is written at the top, and 'IDEA' is written inside the lightbulb. The woman is standing in front of the chalkboard, and her hand is visible as she draws.

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 (afternoons in Saint John)

- The IDEA (Innovation, Development, Entrepreneurship and Action) Centre program, facilitates student learning in the fields of entrepreneurship and community action.
- 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.
- 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.
- More information can also be found here www.ideacentresj.ca



Fine Arts

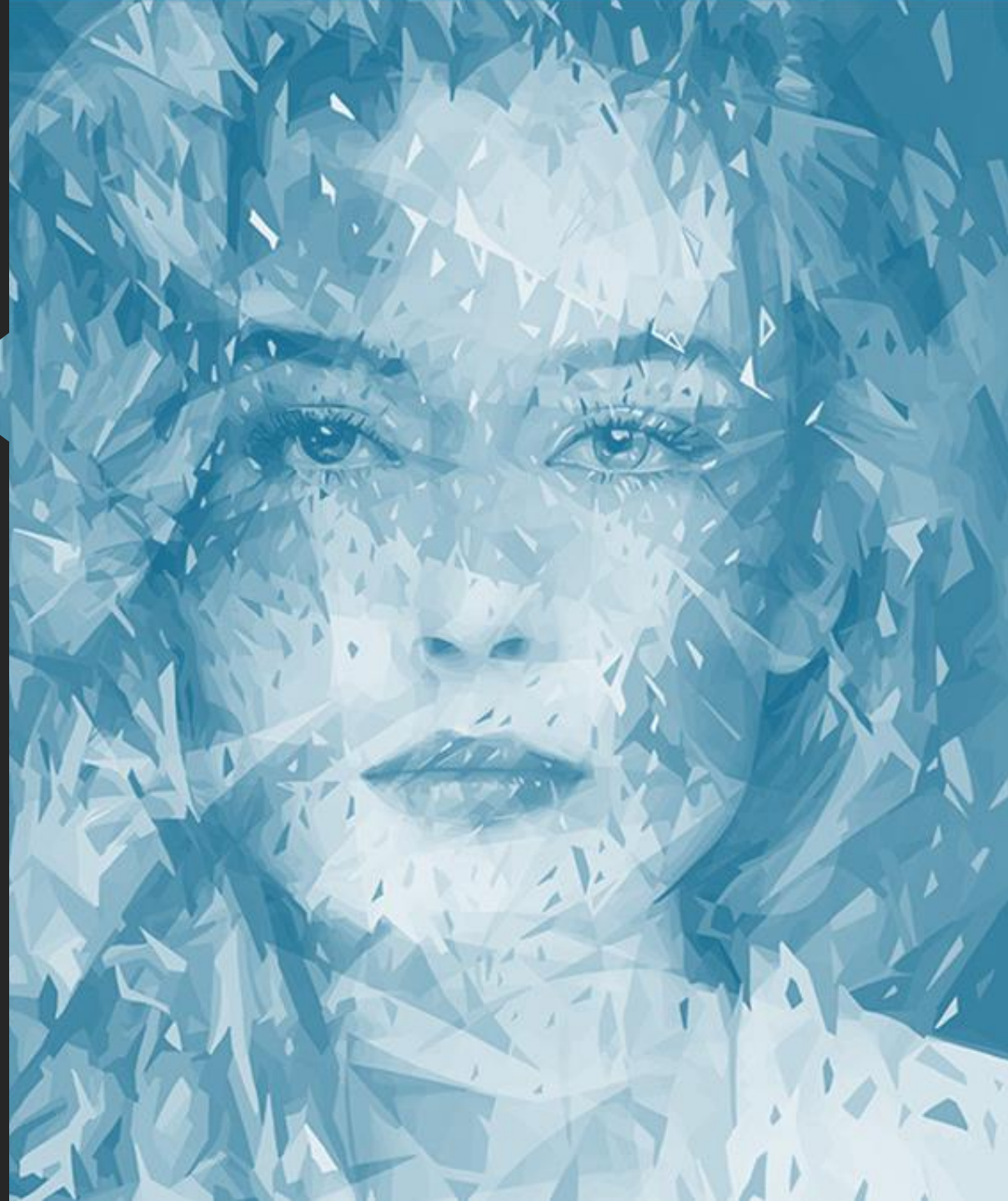
Fashion Technology 110 (Fine Arts Life Role) & Fashion Design120

- ❖ 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
 - ❖ Black and White darkroom techniques



Music 112

❖ MUSIC 112

- ❖ Emphasis will be placed on both the practical aspect of music—performing in solos and ensembles and theory, ear training, and music history/appreciation.



- ❖ The aim of this course is the continuing development of well-rounded, knowledgeable, competent musicians at the high school level.



Music 122

- ❖ Music 122 is designed for the advanced and/or serious student of music.
- ❖ 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.



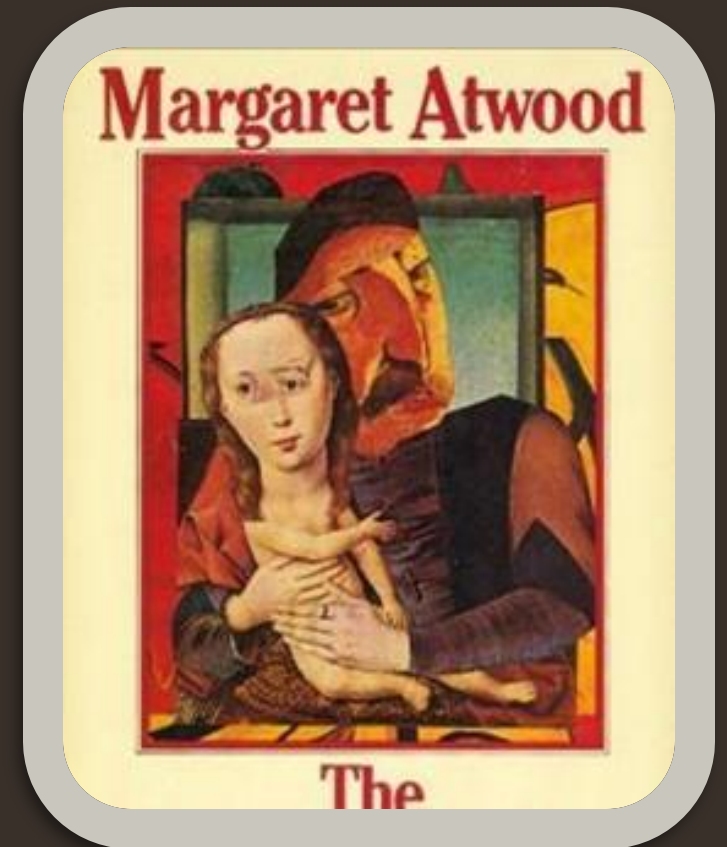


Languages

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.





Local Options

Adulting 120

Major Areas of Study List the main topics/themes.

- Basic hand tools and power tools
- Basic car maintenance
- Cleaning and organizing
- How to live on your own
- Budgeting/Career exploration
- Interpersonal skills (how to be a good neighbor, colleague, etc.)
- Canadian etiquette, norms, traditions, ethnocentricity



Children's Literature 120

- ❑ Do you love reading?
- ❑ Do you ever think about where your love of reading began?
- ❑ For many of us, it began when we were children through the reading of many children's classics.
- ❑ In this course we will explore the history of children's literature, how images and text work together to create meaning, and social representation in children's books. Hopefully, we will get to use our knowledge and read/lead discussions with groups of younger students at neighboring schools.



Dance 110

- ☐ Do you love moving and being active?
- ☐ Do you love music and hearing the different beats?
- ☐ Would you like to explore the history of dance while learning the different styles yourself?
- ☐ Would you enjoy learning:
 - ☐ Tap
 - ☐ Jazz
 - ☐ Hiphop
 - ☐ The Tango
 - ☐ And so much more?

Then this class is for you!



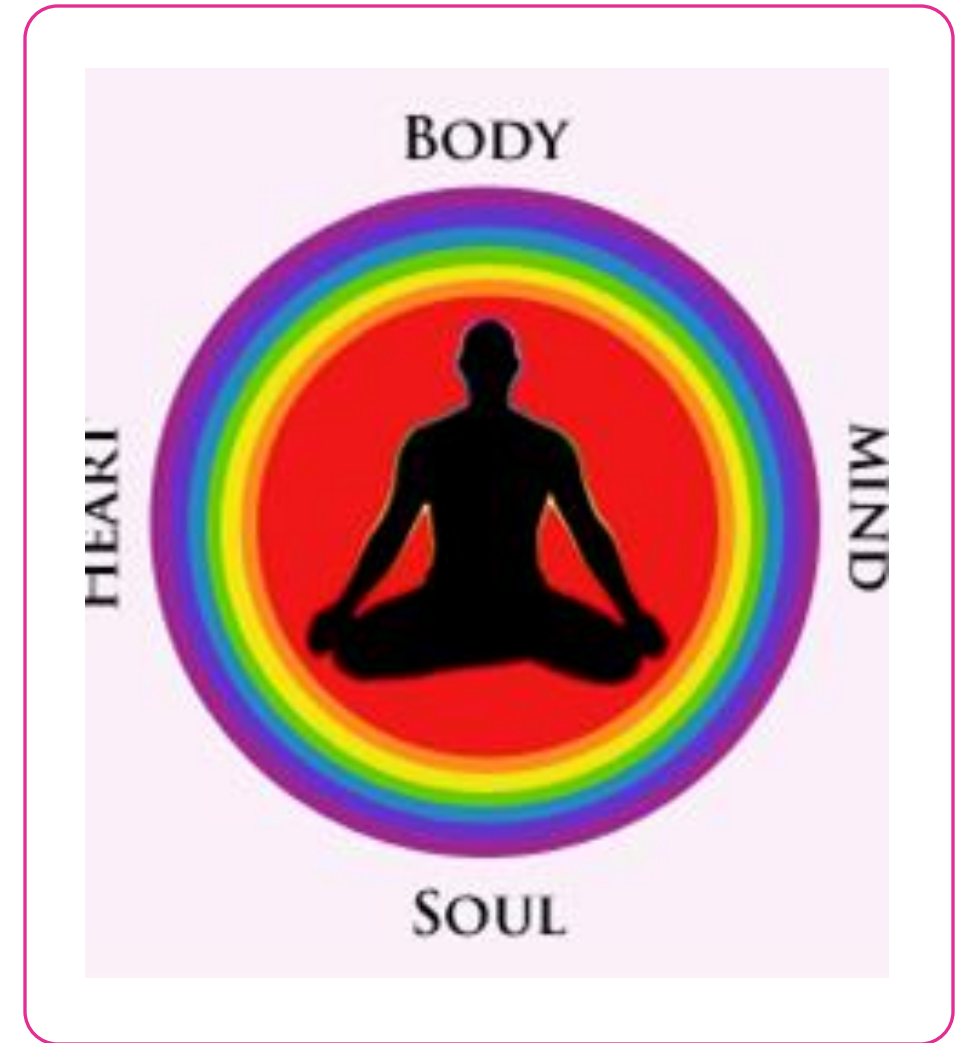
Gender Studies 120

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



Holistic Wellness 110

- ❑ Is overall wellness important to you?
- ❑ Would you like to take a new and balanced approach to your own personal wellness?
- ❑ Do you enjoy exploring new and unique wellness practices and theories?
- ❑ Then this course is for you!



Introduction to Astronomy

110

- ❑ Do you love STEM – Science, Technology, Engineering and Math?
- ❑ Would you be interested in doing a bit of Chemistry, Biology and Physics as it pertains to space?
- ❑ Do you have a desire to understand what is out there and why it is out there?
- ❑ Then this course is for you.
- ❑ Topics include:
 - ❑ Deep exploration
 - ❑ The nature of science and astronomy
 - ❑ Components of the universe
 - ❑ And so much more!



Japanese 110

- ❑ Are you instead in learning a new language/culture?
- ❑ Do you like anime/manga/JRPG?
- ❑ Would you want to develop your cultural competences?
- ❑ Are you a person who respect diversity, equity and fairness?
- ❑ This course offers a unique opportunity to examine a completely foreign language and culture.
- ❑ Major Learning objectives:
 - ❑ 1. Develop fundamental knowledge of Japanese language
 - ❑ Read and write Japanese characters such as hiragana, katakana and some basic kanji.
 - ❑ Acquisition of basic grammatical knowledge and build basic vocabulary.
 - ❑ 2. Understand and use familiar everyday expressions and very basic phrases
 - ❑ Listening and speaking skills
 - ❑ This course is aimed at approaching to Japanese fluency level of JLPT N5 (Japanese Language Proficiency Test) and/or CEFR A1 (Common European Framework of Reference for Languages).
 - ❑ It is an excellent preparatory course for a first-year university-level Japanese language course.



Leadership 120

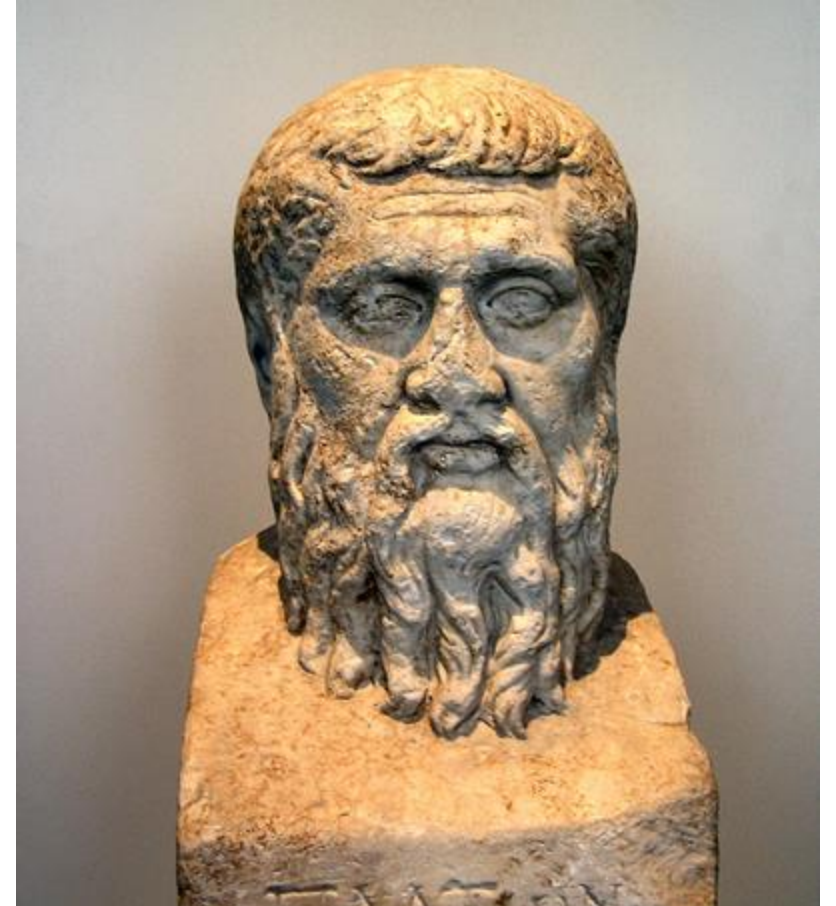
- ❑ Leadership 120 will help build the skills necessary for becoming a successful leader. It will help build your resume and improve your post-secondary applications
- ❑ This course is a blend of learning leadership theory and putting it into practice.
- ❑ Activities included in this course are:
 - ❑ Planning various school and community events
 - ❑ Gaining valuable volunteer hours
 - ❑ Working with students in elementary schools

VOLUNTEER



Philosophy 120

- ❑ We contend that this course is unique in that students will gain a greater appreciation of the notion that what they are learning in the math and science wings of the school inform and inspire what is being learned in art, music, and the social studies: that their learning is connected.
- ❑ We aspire to engage students in such a way as to call upon several areas of study in order to achieve our identified outcomes at the highest possible level.
- ❑ Philosophy 120 is open to all students with a variety of interests and competencies, and because the course is designed around themes and concepts, as opposed to events and more specific content, the 120 Philosophy course provides the opportunity to apply many more of these 'best practices' in a profound way.



Photography 120

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

Some topics explored include:

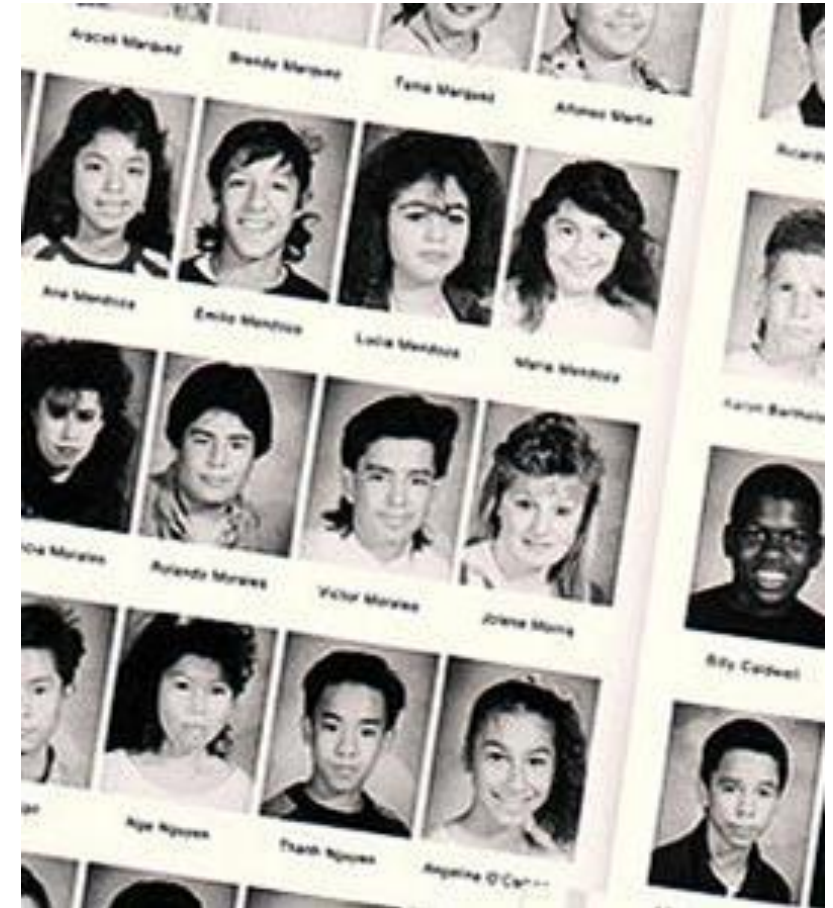
- ❑ Camera Basics
- ❑ Composition Techniques
- ❑ Elements and Principles of Design
- ❑ Film and Digital Techniques
- ❑ Photo Editing Software
- ❑ Analyzing/Critiquing Photographs
- ❑ History of Photography
- ❑ Developing a Portfolio
- ❑ Creating an Exhibit

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



Yearbook 120

- ❑ Do you love attending school events?
- ❑ Do you love snapping pictures?
- ❑ Do you love being organized?
- ❑ Do you adhere to firm deadlines?
- ❑ Are you interested in being a member of our amazing yearbook committee?
- ❑ Then this course is for you!
- ❑ Application 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!



Strategy in Sport 110

- ❑ This course offers students the opportunity to have more physical movement in their day, improve their fitness, and to build teamwork and leadership skills that are transferable beyond sport.
- ❑
- ❑ *Major Areas of Study:*
 - ❑ Leadership, Communication, and Coaching
 - ❑ Movements through space - Offensive strategy/ Defensive strategy/ Collaboration
 - ❑ Being Active- Specific Nutrition
 - ❑ Training for Sports/ Healthy Living.



Sport & Society 120

- ❑ Many students at KVHS have experience in and with sport.
- ❑ Regardless of whether these experiences are positive, negative, or neutral, this commonality can be used as a hook to teach and learn about aspects of sociology, gender studies, social justice, and media literacy.
- ❑ In a time when media is constantly at students' fingertips, being equipped with the skills to dismantle and analyze the explicit and implicit messages inherent in advertisements, program availability, sponsorship, and by athletes is an essential skill in the 21st century.



Board Game Design 120

Board Game Design 120 is a course where students will design, develop, prototype and complete their own board game.

The course is divided into four broad phases:

- **Concepting:** Students will create the core mechanic or theme for their game. They will play board games to explore design space and participate in discussions about luck, skill, game politics, kingmaking, and more.
- **Designing:** Students will develop their core mechanic or theme with supporting mechanics. They will engage in playtesting and participate in discussions about balance, strategic collapse, busywork, reward/effort etc.
- **Developing:** Students will create a prototype of their game and playtest it extensively. They will write a ruleset to perform a blind playtest. They will playtest the games of other students.
- **Presenting:** Students will complete their game. They will write a final ruleset that relates thematically to their game. They will perform final playtests.

Students will be journaling throughout the semester to keep track of notes, ideas and feedback related to their game.

At the end of the course, students will have created a playable board game.





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

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.



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





Humanities

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.



Ancient and Medieval History 112

- Ancient and medieval societies have rich primary source traditions, which allows students to grapple with a variety of types of evidence.
- From Egyptian hieroglyphics to the Roman Colosseum and from the archaeological evidence for everyday life around the world to oral traditions that have been passed down over thousands of years, ancient and medieval histories provide students great opportunities to consider how we know what we think we know and why certain interpretations carry more weight than others.
- Ancient and Medieval History 110 addresses big ideas in civics and Indigenous perspectives and ways of knowing through the study of the distant past.



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

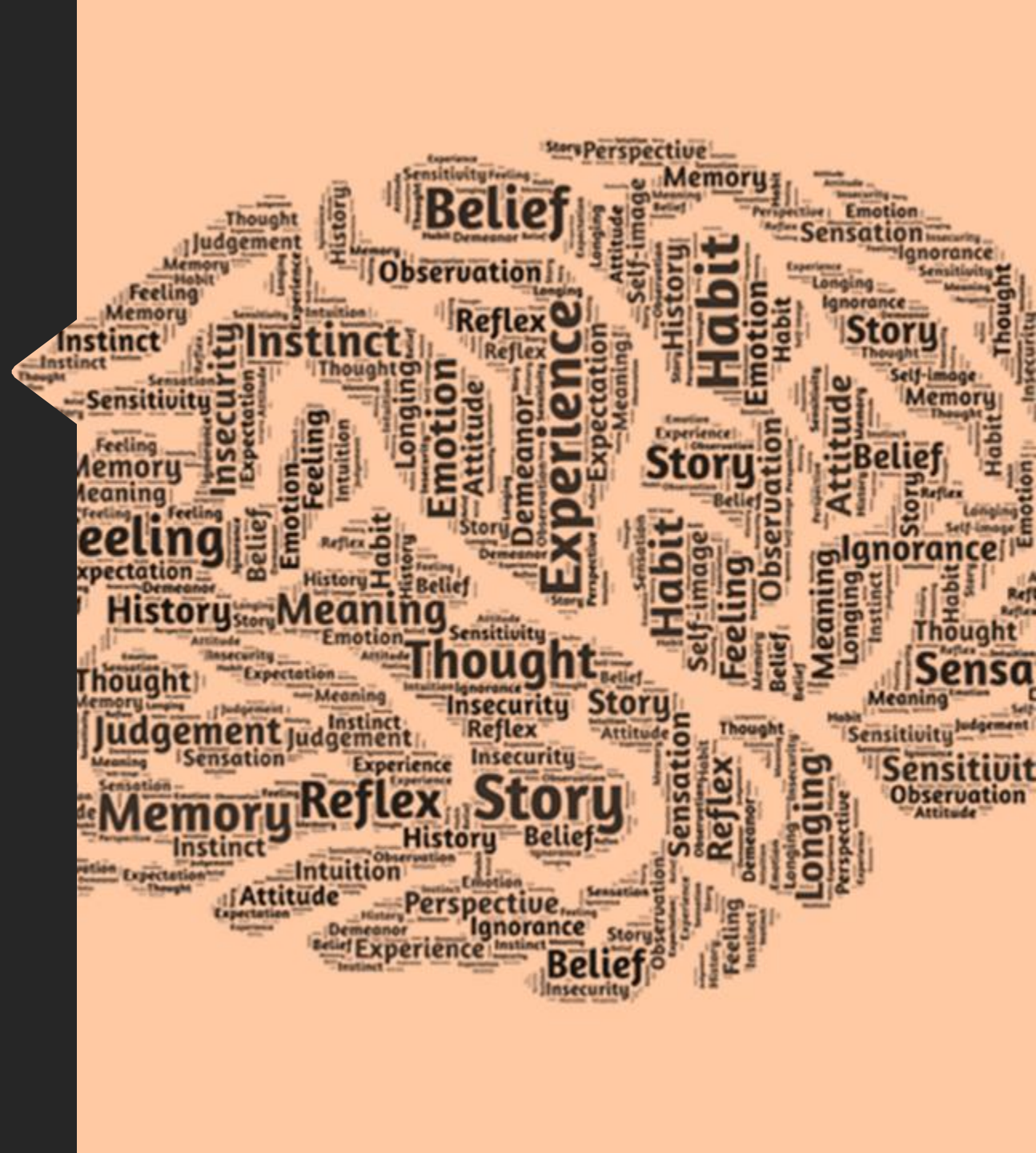
- Just what the heck is Political Science, anyway?
- Why do people come together to form a society?
- Where do ideas like justice, liberty, and democracy come from?
- What is government?
- How does our government work?
- What do our politicians REALLY DO?
- Why do we value free speech?
- How free should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

- Come find out in Political Science 120!



Psychology 110

- Are you interesting in how the brain works?
- Do you have a desire to know about the structures of the brain and what they do?
- Are you interested in knowing more about the history of Psychology and theories?
- Do you want to know more about mental health and mental illnesses ?
- Do you want to know all that you can about effective theories ?
- Then this course is for you!



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.

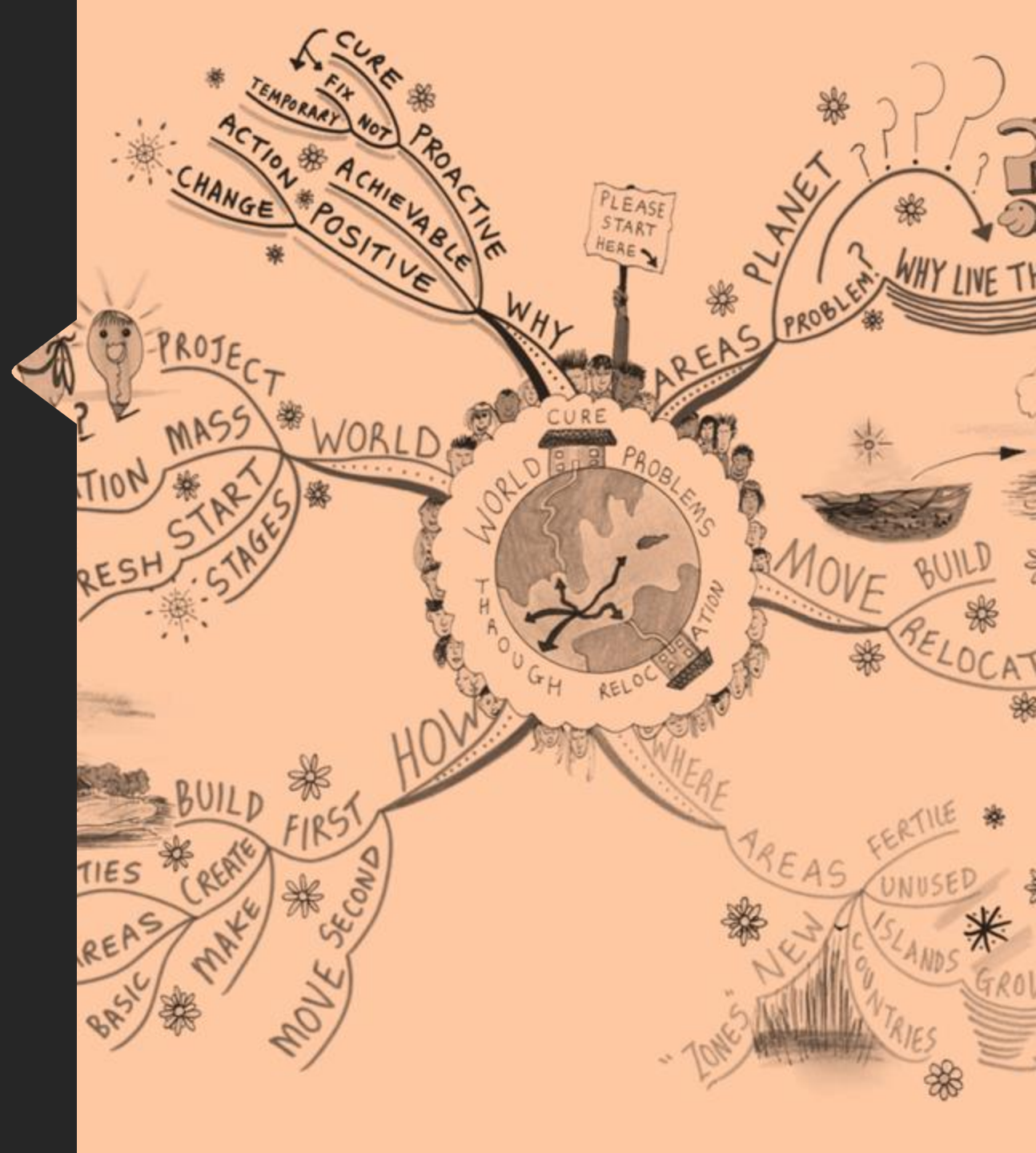


World Issues 120

Students will examine the global challenges of building a sustainable and equitable future, focusing on current issues that demonstrate these challenges. Students will investigate a range of topics relevant at the time of study. The course provides opportunity for student choice within the themes of “humanity,” “interdependence,” and “geopolitics.”

Topics Include:

- Child soldiers
- Indigenous Rights around the World
- Justice and Human Rights
- How do people live?
- How are we connected ?
- Human Trafficking
- Women Rights
- Globalization
- Food security
- Global conflicts





Technology

Auto Electrical 120

A student with dark hair, wearing a light-colored t-shirt, is leaning over the open hood of a car. They are focused on the engine compartment, specifically the area with various wires and components. The scene is dimly lit, with a bright light source from the right illuminating the student's face and the engine bay. The background shows more of the car's internal components and some yellow structural elements.

This course designed to introduce students to the theory of operation and basic service of Auto Electrical Systems. The student will study the function of electrical system components and practice basic service procedures.

Maintenance Auto 110

A man in a black t-shirt and safety glasses is working on the engine of a car with its hood open. He is using a tool to work on a component. The background shows a blue car lift and other vehicles in a garage setting.

This course is designed for those students who wish to take a general, personal development course relating to automobiles. It fulfills the requirements of students who do not wish to pursue an automotive trade, but who wish to have a general understanding of the proper requirements for responsible vehicle ownership.

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 interesting 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 from 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

- 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!

Micro-Electronics 120

- Digital electronics, the integrated circuit and the microprocessor have introduced the microelectronics revolution.
- Today digital circuits are an integral part of the automobile, communications, equipment, computers, calculators, audio systems, etc.
- During this course, the students will be introduced to:
 - digital electronics,
 - digital numbering systems,
 - binary logic gates,
 - combination circuits,
 - sequential circuits,
 - digital systems,
 - microprocessor basics,
 - And interfacing.

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



- 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
 - transmissions
 - differential and drive lines

Robotics and Automated Technology 120

- This course explores the fields of robotics and automation.
- Using experimentation labs, students will learn and apply various automation concepts such as logic programming and the integration of technologies including pneumatic, electrical, mechanical, and computer.
- Students will develop valuable technology skills in the areas of design, technical writing and communication, and systematic approaches to problem solving and trouble- shooting.
- Students in this course will construct simulations and models of robot and automation processes using industrial types of equipment and computer simulation software.
- The knowledge and skills developed in this course would be an asset to any student who will at some point become involved in processing or manufacturing whether at the entrepreneurial, administration, engineer, or technologist level.