



MOUNT ELIZABETH **MIDDLE** SECONDARY SCHOOL

{course descriptions} Courses



GRADE 8's, 9's, 10's and 11's

ENGLISH

ENGLISH 09

Novels, Poetry, Grammar and Writing

ENGLISH 10

Content: This is a survey course which follows the resource concept of English 8 & 9.

Course Work: Students will read a selection of novels and comment on them with emphasis on unity, coherence, values and attitudes. Students will study a variety of poems, myths and short stories with an emphasis on plot and purpose and continue to participate in a variety of speaking experiences. Students will continue to develop writing skills with an emphasis on style as well as technical skills. Also included is introduction and development of essay writing, identifying and correcting problems in grammar, usage, spelling and punctuation.

ENGLISH 11

Content: This course has human values as its focal point. Many of man's values will be examined through a study of a variety of literature.

Course Work: Students will read at least one novel in depth, concentrating on theme, social values and literary techniques. They will study a variety of poems, short stories, mass media techniques and drama with an emphasis on the technical aspects of short stories. Included will be the function of mass media, the styles and presentation of poetry, uses and variations of drama. Students will, develop through presentation, the oral skills learned in the junior grades. They will develop writing skills with a continued emphasis on the essay and continue to identify and correct problems in grammar, usage, spelling and punctuation. This course addresses the needs and abilities of students who plan to attend academic post-secondary institutes.

ENGLISH 12

Content: This course has its focal point the development of critical ability. Students will do an in-depth study of one novel and formulate their own opinions with the help of associated literature on the relative worth of the novel. Students will study a variety of poems, short stories, mass media and drama with emphasis on the development of critical perspective, participate in a variety of speaking and listening experiences, with an emphasis on lectures and note-taking. They will continue to develop writing

skills with emphasis on literacy essay and preparation for writing provincial exams and continue to identify and correct problems in grammar, usage, spelling and punctuation.

FIRST PEOPLES ENGLISH 10-12

Content: These courses are the equivalent of English 10, 11, and 12. First Peoples English 10-12 will draw attention to recurring themes that are characteristically part of the world view of many First Peoples.

Course Work: Will include the connection with the land and environment, the nature and place of spirituality as an aspect of wisdom in First People's cultures, the nature of knowledge-who holds it, what knowledge is valued, the role of Elders, the relationships between individual, family and community, the importance of the oral tradition, the experience of colonization and decolonization (e.g., residential schools, the land question) and humor and its role in First People's cultures. There will be emphasis on oral texts that reflects the maintenance of oral tradition, so important to virtually all First People's cultures. The study of oral tradition will allow students to directly experience oral texts and will promote their appreciation of a living oral traditions.

HOME ECONOMICS

CLOTHING AND TEXTILES (SEWING) 9-12

Content: This course will further develop your skills in clothing construction and fitting procedures with a special emphasis on tailoring. This course is useful to students who are interested in Fashion Designer, Home Economics Teacher, Sewing Machine Operator, Sewing Machine Technician, Tailor. It is also a useful life skill (repairing or making your own clothes) and as a consumer awareness tool (knowing what's what with clothing).

Course Work: Sewing is now a mixed grade 9-12 class divided into levels I, II, III and IV depending on how many years you have taken sewing. Levels are as follows:

Level I - (formerly grade 9), make a skirt and top plus optional projects. BOYS - Sweatshirt, sweatpants, jacket (time permitting)

Level II - (formerly grade 10), make pants and top plus optional. BOYS - Lined Jacket & Vest, shirt

Level III - Lined garments. BOYS - Fitted Shirt, pants.

Level IV - Tailored and lined garments

BA TEXTILE ARTS & CRAFTS 11

Content: This course is useful to students interested in teaching home economics or art. It is also valuable for students interested in art, commercial design, interior designer or for those interested hobbies for everyday enjoyment.

Course Work: Show case your creative talents! Some of the techniques explored are applique, weaving, spinning, embroidery, fabric painting, knitting, wreath making and jewelry making. Other techniques explored may include marionette making, glass etching, glass painting and tote painting. A highly individualized approach to this course will allow several choices regarding projects. This course is useful to students interesting in teaching home economics or art. It is also valuable for students interested in art, commercial design, interior designer or for those interested hobbies for everyday enjoyment.

FOOD STUDIES 9-12

Course Work – Gr. 9: Students will learn to prepare a variety of foods to ensure healthy, nutritious and interesting meals. Students will work individually and cooperatively to plan, complete and carry out assigned tasks, field studies and presentations. This course is useful for food service industries, nutritionists, travel and the tourism industry (tour operations from local to national operations).

Course Work – GR. 10: Students will learn to prepare a variety of foods to ensure healthy, nutritious and interesting meals. Students will work individually and cooperatively to plan, complete and carry out assigned tasks, field studies and presentations. This course is useful for food service industries, nutritionists, travel and the tourism industry (tour operations from local to national operations).

Course Work – GR. 11: This course is tour around the world in which you will experience authentic, traditional foods from countries around the world.

Course Work – GR 12: This course is a study of the foods of North America in which you will experience both traditional and current foods.

BA CHILD DEVELOPMENT 11

PART 1 - Focuses on the physical, emotional and intellectual development of children during the prenatal, newborn, toddler, pre-school and school age stages of child development.

PART 2 - Explores discipline and child abuse issues as well as toys and play. Health and safety issues and a study of children with special needs will be examined. Students have the opportunity to care for a computerized baby for a period of one week. Workbooks, videos, field trips and guest speakers supplement course material. This course is useful for students

who are thinking about pursuing a career that involves working with children, e.g., early childhood educator, elementary school teacher or child care supervisors.

FAMILY STUDIES 12

Content: To examine the interactive nature of self, family and society from an adult point of view.

Course Work: Become aware of different lifestyles and gain an understanding of love, relationships and marriage. Acquire valuable information for managing your resources, living independently and establishing goals. Gain an understanding of human development and the process of aging. This course is useful for those students interested in any type of work that deals with families as a focus. For example, social worker, psychologist, health promotion agencies, your care workers or teachers. Because this course runs concurrently with Child Development, it is project based with regular meetings with the teacher.

TOURISM 11/12

Content: The theory part of this course includes workbook certificate programs in Food safe 1, Local Tour Guide, Travel Counsellor, Super Host Fundamentals, Serving It Right. This class will choose 2 other certificates depending on interest. This course is useful for food service industries, travel and the tourism industry (tour operations from local to national operations). This course is useful for students interested in careers in the travel and tourism industry.

Course Work: Students will individually and cooperatively to plan, complete and carry out assigned tasks, field studies and presentations.

LANGUAGES

French 9

A continuation of French 8, with a focus on developing verbal and written skills in French. Vocabulary themes are music, movies, holidays, friends, and money. Students in French 9 will greatly improve their ability to communicate in French.

FRENCH 10

This is a continuation of French 8 & 9 containing a review of the vocabulary and grammar learned previously. The focus remains on expressing oneself orally and in written form. The past tense is taught and the vocabulary themes are clothes and fashion, advertising, inventions, childhood memories, travel and the news. A highlight to the year is making entertaining group videos based on these themes.

FRENCH 11

Students further develop their verbal and written expression in French through compositions, Show & Tell, debates, video and written projects and conversations with a partner or with the class as a whole. The past tense is reviewed and the future (will) and conditional (would) tenses are taught.

FRENCH 12

A tweaking of previous concepts learned in French coupled with an acquisition of new vocabulary and sentence structures. Conversational French is a key element through class and partner discussions. A few highlights are cooking in French, watching an authentic French film and doing a video project. A rewarding course for students who have been developing their skills over a period of years..

MATHEMATICS

MATHEMATICS 9

The Mathematics program of study is designed to develop deep mathematical understanding and fluency, logical reasoning, analytical thought, and creative thinking. Content focuses on concepts related to number sense, patterns and relations, spatial sense, and statistics and probability. Students actively investigate problems and find solutions. Throughout the course of their K–12 Mathematics experience, they will develop a willingness to take risks, experiment, and make logical guesses. Students will experience both success and failure, ultimately learning perseverance while developing confidence and competency in mathematics.

APPRENTICESHIP AND WORK PLACE MATH 10

Content: Imperial and SI (System International) units, conversion of units of measurement, perimeter and area of two-dimensional figures, composite and irregular two-dimensional shapes and three-dimensional objects, calculations involving income (wages, salary, gross pay, net pay), unit pricing and currency exchange, Theorem of Pythagoras, similarity of polygons, angles, primary trigonometric ratios and problem solving.

FOUNDATIONS & PRE-CALC MATHEMATICS 10

Course Description: Imperial and SI (System International) units, conversion of units of measurement, perimeter and area of two-dimensional figures, surface area and volume of three-dimensional objects. Theorem of Pythagoras, primary trigonometric ratios, solving problems involving right triangles, relations and functions, linear relations, slope, domain and range, function notation, solving linear systems of two variables, square roots and cube roots, irrational numbers, exponent laws with integral and rational exponents,

multiplying polynomial expressions, factoring polynomials containing common factors and factoring trinomials.

APPRENTICESHIP AND WORK PLACE MATH 11

Content: This course is intended for those students whose career plans involve the trades, or who are planning on entering the workforce directly after secondary school graduation.

Course Work: Imperial and SI measurements, applications of formulas (involved in volume, capacity, surface area, rate of change and slope), creating and interpreting data graphs.

PRE-CALULUS 11

Content: This course is intended for those students who are planning on attending a post-secondary institution and are pursuing studies in the areas of math or science, or whose studies may require some calculus.

Course Work: Sequences and series, trigonometry, angles in standard position, sine law, cosine law, quadratic functions and equations, absolute value, reciprocal functions, systems of equations, linear and quadratic inequalities.

FOUNDATIONS OF MATHEMATICS 12

Content: This course is intended for those students who are planning on attending a post-secondary institution but are not pursuing studies which involve any connection to calculus.

Course Work: Logic and reasoning, set theory, conditional statements, probability, mutually exclusive events, probability of successive events, fundamental counting principle, permutations, combinations, polynomial functions, exponential and logarithmic functions, sinusoidal functions, compound interest, finances of buying/leasing, interest rates and rates of return on investments.

PRE-CALCULUS 12

Content: This course is intended for those students who are planning on attending a post-secondary institution and are pursuing studies in the areas of math or science, or whose studies may require some calculus.

Course Work: Radians, angles in standard position, reciprocal trigonometric ratios, graphs of trigonometric functions, proofs of trigonometric identities, operations with functions, composite functions, graph transformations, inverse relations, exponential and logarithmic functions, laws of logarithms, applications involving exponential and logarithmic equations, polynomial functions, radical functions, rational functions, fundamental counting principle, permutations, combinations, binomial theorem and binomial expansion.

CALCULUS 12

Content: Calculus 12 is a course designed to prepare students for a first-year university calculus course.

Course Work: Principles of Math 12 must be taken concurrently as many concepts build on Math 12 concepts. The Plane, functions, Graphing techniques, Limits and Derivatives, applications of Derivatives, Natural Logarithms (base e), integrals.

MODERN LANGUAGES

FRANCAIS LANGUE SECONDE-IMMERSION 10-11-12

Oral & Written Provincial Exam – GR. 12

Content: These courses focuses on aspects of grammar, vocabulary, literature, composition and composition and cultural experience in the French language. Special attention is given to oral communication and language experience.

ECONOMIE DOMESTIQUE 10: ALIMENTATION

Content: This elective will allow French Immersion students to cook "en François". Language experience will be emphasized while students create delicious and healthy dishes.

SCIENCES HUMAINES 10

Content: These Immersion Courses are similar to Social Studies 10 & 11 but are taught in French. There is a Provincial Exam is GR. 11.

PHYSICAL EDUCATION

PE 10

Content: This course consists of instructional units in the following areas: Volleyball, Fitness, Basketball, Dance, Track and Field and Minor Games. Students will participate in the ACT Foundation CPR course.

Some activities will vary from section to section, depending upon the season and availability of facilities

PE 11/12

Course Work: Students are expected to demonstrate a high level of participation in all classes. Students are expected to be involved in the operation and promotion of athletic activities at school. They will also be expected to attend theory classes and complete written assignments as part of

their PE grade. Students may be required to complete volunteer work outside of school hours.

Students will be taking part in the Bronze Medallion/Bronze Cross Certification Program. This is a water based rescue and first aid course that will require students to be in the pool two classes a week and one class a week in the classroom for eight to ten weeks. Upon successful completion students will receive certification from the Lifesaving Society.

Some activities will vary from section to section, depending upon the season and availability of facilities.

PE 11/12 Female Only

Course Work: Students are expected to demonstrate a high level of participation in all class activities. Students are expected to be involved in the operation and promotion of athletic activities or events at school. They will also be expected to attend theory classes and complete written assignments as part of their PE grade.

Students will be required to complete a certification program as part of the PE grade (*where possible). Some activities will vary from section to section, depending upon the season and availability of facilities.

SUPERFIT BASKETBALL 10-12

This is a participation course where you will learn to develop your own weight training program. The higher level concepts will be taught in this class based on team offense and defense fundamentals

SUPERFIT BALLHOCKEY 11-12

This is a participation course where you will learn to develop your own weight training program. The higher level concepts will be taught in this class based on team offense and defense fundamentals

PLANNING - CAREER PROGRAMS

PLANNING 10

Content: The aim of Planning 10 is to enable students to develop the skills they need to become self-directed individuals who set goals, make thoughtful decisions and take responsibility for pursuing their goals throughout life.

Course Work: Planning 10 provides opportunities for students to plan for successful learning in the Graduation Program, explore a wide range of career and post-secondary education and career options, think critically about health issues and decisions, develop financial literacy skills and plan the action required to pursue post-secondary destination and career paths. This is the year

that students begin to plan their Graduation Transitions, which is a requirement for graduation. This course is mandatory for all students in Grade 10.

GRADUATION TRANSITIONS

Content: Graduations Transitions is a mandatory course for all Graduating Students. Students are expected to take ownership of their own health and learning, examine and demonstrate connections between learning and their future create a plan for growth and development as healthy, knowledgeable and participating citizens. The assessment process begins in Planning 10 and ends in Grade 12 when the student presents their Graduation Transition plans.

Course Work: Students will begin in Grade 10 and complete by Grade 12. Areas of work include: Personal Health and DPA (Daily Physical Activity), Community Connections (work experience and/or community service), career and Life (transition planning). Students will report to Mr. Jones who will oversee this course. This course is delivered on-line through North Coast Distance Education.

CAREER LIFE EDUCATION 11 (replaces Planning 10)

From Kindergarten to graduation, the Career Education curriculum offers students many opportunities to explore and develop personal interests, passions, and competencies while making connections with learning opportunities, post-graduation options, and career and life path possibilities. Students discover that careers are not simply occupational destinations but a journey that involves lifelong planning and learning.

Career Education facilitates community-based learning by providing opportunities for community connections, real-life contexts, and experiences outside the school environment. The First Peoples Principles of Learning are reflected in the holistic, reflective, and experiential curriculum, in which students are placed at the centre of their learning. Through these experiences, students make meaningful connections that will equip them with the competencies needed to participate and contribute to their communities and beyond

SCIENCE

SCIENCE 9

Science provides opportunities for us to better understand our natural world. Through science, we ask questions and seek answers to grow our collective scientific knowledge. We continually revise and refine our knowledge as we acquire new evidence. While maintaining our respect for evidence, we are aware that our scientific knowledge is provisional and is

influenced by our culture, values, and ethics. Linking traditional and contemporary First Peoples understandings and current scientific knowledge enables us to make meaningful connections to our everyday lives and the world beyond.

The Science curriculum takes a place-based approach to science learning. Students will develop place-based knowledge about the area in which they live, learning about and building on First Peoples knowledge and other traditional knowledge of the area. This provides a basis for an intuitive relationship with and respect for the natural world; connections to their ecosystem and community; and a sense of relatedness that encourages lifelong harmony with nature.

The Science curriculum includes content from biology, chemistry, physics, and earth and space sciences at the K–9 level. In Grades 10–12, the content expands to include anatomy and physiology, environmental science, and geology. The curriculum gives students the opportunity to develop the skills, processes, attitudes, and scientific habits of mind that allow them to pursue their own inquiries using scientific methods. Using critical thinking, creative insight, and their current scientific knowledge, students collaborate, investigate, problem solve, communicate, innovate, discover, and increase their understanding of science through hands-on experience. Students have opportunities to develop personal and social awareness of their roles and responsibilities with respect to the environment. By cultivating an appreciation for the field of science, students can recognize opportunities to apply their knowledge in their everyday lives or contribute to science in their future careers.

SCIENCE 10

Content: Chemicals and reactions, electricity and magnetism; radioactivity; cells; genetics; earth forces.

Course Work: Experiments and demonstrations, labs, discussions, individual and group projects and reports, questions, problems and worksheets, possible field trips, some dissections and model building.

EARTH SCIENCE 11

Content: Earth and its environment, Geography, Oceanography, Astronomy, Atmospheric Science, Earth's History (Geologic Time).

Course Work: Demonstration; labs; lab reports; discussions; individual and group projects/reports; questions, problems and worksheets; possible field trips; and some model building.

BIOLOGY 11

Content: Mandatory units include Adaptation and Evolution, Microbiology and Genetics. Optional units include Mycology, Plant Biology and Animal Biology.

Course Work: Includes experiments; demonstration; labs; lab reports; discussions; individual and group projects/reports; questions, problems and worksheets; possible field trips: some dissections and model building.

BIOLOGY 12

Pre-requisite - Biology 11

Content: Cell biology: Cell processes and applications; Human biology: (homeostasis, digestion, excretion, circulation, respiration, nervous system, endocrine system, reproductive system)

Course Work: Includes experiments; demonstration; labs; lab reports; discussions; individual and group projects/reports; questions; problems and worksheets; possible field trips; some dissections and model building.

CHEMISTRY 11

Content: Introduction to Chemistry, Atoms, Molecules and Ions, Mole concept, Chemical reactions, Atomic theory, Solution Chemistry, Organic Chemistry.

Course Work: Includes experiments; demonstration; labs; lab reports; discussions; individual and group projects/reports; questions, problems and worksheets; possible field trips; some model building.

CHEMISTRY 12

Pre-requisite - Chemistry 11

Content: Reaction kinetics, Dynamic equilibrium, Solubility equilibrium, Acid, bases and salts, Oxidation - reduction.

Course Work: Includes experiments; demonstration; labs; lab reports; discussions; individual and group projects/reports; questions, problems and worksheets; possible field trips: and some model building.

PHYSICS 11

Content: Physics introduction; Wave motion and geometrical optics; Kinematics; Dynamics in one dimension; Energy; Special relativity; Nuclear fission and fusion.

Course Work: Includes experiments; demonstration, labs; lab reports; discussions; individual and group projects/reports; questions, problems and worksheets; possible field trips and some model building.

PHYSICS 12

Pre-requisite - Physics 11

Content: Vector kinematics in two dimensions; Dynamics; Work, energy and power; Momentum; Equilibrium; Circular motion; Gravitation; Electrostatics; Electric circuits; Electromagnetism.

Course Work: Includes: experiments; demonstrations; labs; lab reports; discussions; individual and group projects/reports; questions, problems and worksheets; possible field trips: and model building.

SOCIAL STUDIES

SOCIAL STUDIES 9

An informed citizen understands key historical, geographical, political, economic, and societal concepts, and how these different factors relate to and interact with each other. Students cannot gain this understanding passively through a broad survey of topics and or by receiving knowledge from authoritative sources. Students must build deep understandings and create their own knowledge through investigations into interesting, open-ended questions, debating and discussing historical and contemporary issues, and developing and supporting their own hypotheses, solutions, and conclusions.

Social Studies offers students the opportunities to build those understandings and knowledge. It draws on topics from disciplines within the humanities and social sciences, primarily history, geography, political science, and economics, with contributions from other disciplines such as sociology, psychology, and anthropology. Uniting these disciplines is their focus on human activities, behaviours, and interactions with both other humans and the environment.

While Social Studies draws on topics from many different disciplines, the proposed curriculum places greater emphasis on developing disciplinary thinking skills through six major thinking concepts: significance, evidence, continuity and change, cause and consequence, perspective, and ethical judgment. These thinking concepts were originally developed to outline historical thinking, but have been adapted to include some of the ways that geographers, economists, and political scientists think about topics.

SOCIAL STUDIES 10

Content: Students will examine the history of Canada from the conquest of New France, building up to Confederation. Following the unit of Confederation.

Course Work: The course focuses on the Development of Canada as a Nation, with emphasis on the Development of Western Canada and the Pacific Rim Countries. The Social Studies curriculum assumes that history and geography should be integrated; therefore students will study the details of each region's geography in conjunction with its history.

SOCIAL STUDIES 11

Content: This course focuses on three areas from a Canadian perspective: Government and Law (History of Canadian Government, Function of Governments, Law in Canadian Society), Canadian History (Canada and the 20th Century, Canada in WWI and WWII, the inter war years, Canada in the Post-War Years), Geography (World Population, Food supply, resources, industrialization and urbanization).

LAW 12

Content: Law12 is an overview of the Canadian legal system with a focus on criminal law, rights and freedoms, contracts and family law. **Typical activities:** discussions, case studies, simulations (e.g., negotiating a contract or making a human rights complaint), mock trial, guest speakers (RCMP, lawyers, etc.) and field trips.

Course Work: The course is useful for anyone interested in a career in the law. For example, court personnel (sheriff, clerk), probation officer, corrections officer, police officer, and lawyer.

BC First Nations 12

BC First Nations Studies 12 focusses on the diversity, depth, and integrity of the cultures of British Columbia's Aboriginal peoples. In emphasizing the languages, cultures, and history of First Nations peoples, the course addresses an important part of the history of British Columbia. Designed to introduce authentic Aboriginal content into the senior secondary curriculum with the support of Aboriginal peoples, the course provides an opportunity for BC students to acquire knowledge and understanding of the traditions, history, and present realities of BC Aboriginal peoples, as well as a chance to consider future challenges and opportunities.

History 12

The History 12 curriculum is designed to give students a range of experiences and opportunities to develop skills that will prepare them for further study in history and related disciplines. History 12 requires students to

conduct historical inquiries, to think through cause-effect relationships, and to reach sound historical interpretations. It requires students to use historical evidence and fact to analyse and construct arguments, and to be aware of the subjective nature of historical narrative. The study of history trains students to recognize bias, weigh evidence, and evaluate arguments, thus preparing them to make informed, independent judgments.

Geography 12

Geography is a discipline that encompasses information, concepts, and methods from many fields of study. It addresses both the physical and human-created systems of the world through the study of people, places, and environments. As an ever-increasing world population puts more and more demands on the planet's resources, there is a need for a society that is geographically literate and therefore able to make informed decisions about the sustainability of the Earth's resources and the future of the planet.

Comparative Civilizations 12

Comparative Civilizations 12 focusses on the study of the inter-relationships among values, culture, civilization, and the arts. For the purpose of this curriculum, these terms are defined as follows:

- *art* and *artworks* are used in the broadest sense to include literature, fine arts (e.g., dance, drama, music, visual arts), and applied arts (e.g., architecture, fashion, jewellery)
- *culture* is the way of life of a given group of people
- *civilization* is the synthesis of a characteristic set of artworks, beliefs, institutions, and ways of living of people in a specific place and time
- *values* refers to a set of beliefs that are held in common

TECHNOLOGY EDUCATION

TECHNOLOGY EDUCATION 9/10: METAL WORK

This course *MAY* be combined with Technology 9 (Metalwork) required for: Useful for Metalwork 11 and Mechanics 11.

Students will learn a more advanced study of the processes used in Metalwork 9. Three or four compulsory projects will be assigned with the remainder of the time spent on student directed/teacher assisted projects, (i.e., you get to choose and design our own project). This course is useful for further courses in metalwork or automotive. It is also useful for students interested in engineering careers.

TECHNOLOGY 9 - WOODWORK

Students will learn to think about making and how to use hand and machine tools safely by building four wood projects: an introductory project, two major projects and a turned project. The projects are: cutting board, gumball machine, occasional table, and turned bowl. All of the wood shop's machines, both manual and computer driven, are used in making these projects. This course is useful for students who want to learn how to work with wood and develop general making, safety, and hand skills. *This course MAY be combined with other woodwork courses.*

TECHNOLOGY 10 - WOODWORK

Students will continue to develop thinking about making, hand, and machine tool skills by building three wood projects. The projects are: serving tray, bedside cabinet and turned bowl. All of the wood shop's machines, both manual and computer driven, are used in making these projects. This course is useful for students who want to learn how to work with wood and develop general making, safety, and hand skills. *This course MAY be combined with other woodwork courses.*

CARPENTRY & JOINERY 11

Depending on prior experience, the student will have the opportunity to develop their woodworking thinking and making skills by building a piece of furniture either to commercial plans or self-developed plans. All of the wood shop's machines should be used in making this project. The student and teacher will decide the level of ability of the student and customize the course to the student's abilities. *This course MAY be combined with other woodwork courses.*

CARPENTRY & JOINERY 12

This course will allow students to increase their skills in the woodworking area. Depending on prior experience, students will be challenged to take on more complex projects. Students will have the opportunity to design and build quality furniture. Safe work practices will be taught and emphasized. This course is useful for students who enjoy working with wood as a hobby or who want to gain skills working with tools for future home repairs or for those who are looking for employment in furniture manufacturing or construction trades. This course MAY be combined with other woodwork courses.

CARPENTRY 12: CABINET CONSTRUCTION

Course Work: This is a course in cabinet making and design techniques. The emphasis of the course will be on the construction of kitchen or bathroom cabinets. Safe work habits will continue to be a major component of the course. Woodwork 10, 11, and 12 should be taken before enrolling in this course. *This course MAY be combined with other woodwork courses.*

CARPENTRY/JOINERY 12: Furniture construction

Course Work: This is a course in advanced furniture making and design techniques. The emphasis of the course will be on the quality of furniture construction and design. Safe work habits will continue to be a major component of the course. Woodwork 10, 11, and 12 should be taken before enrolling in this course. *This course MAY be combined with other woodwork courses.*

SKILLS EXPLORATION 10-12

Students will be introduced to the building trades (carpenter, plumber, and electrician) through a combination of classroom and hands-on activities. Examples of activities are: build a floor and wall structure, plumb a faucet, wire an outlet and three-way switched light fixture. Safety is emphasized. This course is useful for those considering a career in the building trades or performing home repairs.

MECHATRONICS 12 (Available to grade 11 & 12 students)

In this course students will use STEM (Science, Technology, Engineering, and Math) skills in a practical and hands-on environment. Working in teams, students will play a variety of roles to research, design, build, program and test robots. Major content areas are: mechanical systems, alternating and direct current electronic systems, drafting, drawing and design, computer control systems, programmable logic controllers, processors, and microcontrollers, displays, interfaces, and instrumentation, hydraulic and pneumatic systems, repeatability and load capacity, industrial applications of mechatronics.

ROBOTICS & ELECTONICS 9

Learning outcomes students will understand:

Mechanical Devices for energy transmission, Basic electrical theory for control and energy transmission, Basic electronic theory for control, Coding for control of motors and actuators, Robotics control using electric and electronic controls, Problem identification and solving using the design process, Prototyping using CAD/CAM and 3D printing, Basic metal and woodworking.

Typical Activities: Theory Lessons, Labs, Projects
Projects: Cyborg, Flashing LEDs, Arduino controlled devices, Hydraulic manipulator, Tethered bot, Sumo Bot, Vex robotics, Vex robot challenge.

AUTOMOTIVE TECHNOLOGY 11

Content: Theory lessons and hands-on activities cover safety, fasteners, tools and basic automotive systems. This course is 30% classroom theory and 70% hands-on in a fully equipped auto shop working on cars and other engine powered equipment.

Course Work: Tire repair and balancing, oil changes, tune-ups, brake jobs and exhaust repair. This course is useful for those students who wish to pursue careers in the automotive industry and those who wish to perform their own car repairs. Coveralls, full coverage footwear and safety glasses are required.

This course MAY be combined with other automotive courses.

AUTOMOTIVE TECHNOLOGY 12

Content: Theory lessons and hands-on activities cover safety, fasteners, tools and basic automotive systems. This course is 30% classroom theory and 70% hands-on in a fully equipped auto shop working on cars and other engine powered equipment.

Course Work: Students receive hands-on practice in an automotive shop putting theory into practice. Examples of activities are: drivability diagnosis, steering repairs and clutch replacement. This course is useful for those students who wish to pursue careers in the automotive industry and those who wish to perform their own car repairs. Coveralls, full coverage footwear and safety glasses required.

This course MAY be combined with other automotive courses.

AUTO TECH 12: BODY REPAIR & FINISH

Course Work: Theory lessons and hands-on activities covering body repair and refinishing. Examples of activities are: inspecting vehicle body condition, repairing sheet metal, replacing panels, preparing and filing and priming and detailing. These courses are useful for students who wish to pursue careers in industry or for those who want to do their own car repairs. Coveralls, full coverage footwear and safety glasses required.

This course MAY be combined with other automotive courses.

AUTO TECH 12: ENGINE& DRIVE TRAIN

Course Work: Theory lessons and hands-on activities cover the drive train in depth. Examples of activities are: adjusting differential, replacing clutch, disassembling and measuring an engine, reassembling an engine and removing and installing a CV axle. These courses are useful for students who wish to pursue careers in industry or for those who want to do their own car repairs. Coveralls, full coverage and safety glasses are required.

AUTO TECH 12: ELECTRICITY & ELECTRONICS

Course Work: Theory lessons and hands-on activities cover the automotive electrical and electronic systems in depth. Examples of activities are: diagnosed and replacing malfunctioning components, diagnosing drivability problems with a scan tool and measuring component outputs with a lab scope and a DVOM. These courses are useful for students who wish to pursue careers in industry or for those who want to do their own car repairs. Coveralls, full coverage and safety glasses are required.

This course MAY be combined with other automotive courses.

DRAFTING & DESIGN 9

This course uses Autodesk Inventor and Revit to create virtual designs and communicate them through formal drawings and renderings. Simple initial assignments lead to an understanding of the software and lead to more complex multi-part projects. The course has both a mechanical and an architectural component.

This course is useful for anyone considering the mechanical and building trades or professions. (Machinist, welder, carpenter, engineer, architect).

This course may be combined with other drafting courses.

DRAFTING & DESIGN 10

This course builds on the concepts learned in Drafting and Design 9 and continues to use the industry standards Autodesk Inventor and Revit to create virtual designs and communicate them through formal drawings and renderings. Simple initial assignments lead to an understanding of the software and lead to more complex multi-part projects. The course has both a mechanical and an architectural component.

This course is useful for anyone considering the mechanical and building trades or professions. (Machinist, welder, carpenter, engineer, architect).

This course may be combined with other drafting courses.

DRAFTING & DESIGN 11

This course uses Autodesk Inventor to create virtual mechanical devices, drawings, renderings, animations, and presentations.

This course is useful for anyone considering the mechanical and building trades or professions. (Machinist, welder, carpenter, engineer, architect).

This course may be combined with other drafting courses.

DRAFTING & DESIGN 12

This course builds on the concepts learned in Drafting and Design 11 using Autodesk Inventor to create virtual mechanical devices, drawings, renderings, animations, and presentations.

This course is useful for anyone considering the mechanical trades or professions. (Machinist, welder, engineer).

This course may be combined with other drafting courses.

DRAFTING/DESIGN 12: ARCHITECTURE/HABITAT

This course uses Autodesk Revit to create a virtual house which will be presented through a complete sets of plans including floor plans, elevations, renderings, and presentations.

This course is useful for anyone considering the building trades or professions. (carpenter, engineer, architect).

This course may be combined with other drafting courses.

METAL FABRICATION AND MACHINING 11

Depending on the number of student requests this course MAY be combined with a Grade 12 Metal Fabrication & Machining course.

Students will learn to safely use all the machines in the metalwork shop. Skills in layout, measurement and project development will be learned through theory lessons and demonstrations. These skills will be practiced while making the following projects: sheet metal scoop, screwdriver, tack hammer, centre punch, chisel, dock cleats and dice. Students will learn to use the arc welder as well as cut and weld metal with oxy-acetylene torch. Self-directed projects may also be made if time permits. Coveralls, full coverage footwear and safety glasses required.

METAL FABRICATION AND MACHINING 12

Depending on the number of student requests this course MAY be combined with other Grade 12 Metal Fabrication & Machining courses.

Students will learn threading, taper turning and reaming on the lathe, fly cutting and cutting keyways on the milling machine, piercing, braze welding and silver soldering with oxy-acetylene, cutting metal with plasma arc and welding with a MIG welder. Only 25% of this project work for this course is teacher directed. The remainder of the mark comes from student directed projects such as: come-a-long, trailer, go-kart, etc. Coveralls, full coverage footwear and safety glasses required.

METAL FAB & MACHINING 12: CNC PROCESSES

Pre-requisite - Metal Fabrication 12

Depending on the number of student requests this course MAY be combined with other Grade 12 Metal Fabrication & Machining courses.

This course expands on the fundamentals taught in Metal Fabrication and Machining 11 and 12 by focusing on metal work performed by computer numeric control (CNC) equipment. Students will draw projects using Autocad or Mastercam. They will then generate a tool path of the design and will machine the part on a CNC milling machine. Students are provided with the opportunity to improve their knowledge and skills in this area through project-based learning. Coveralls, full coverage footwear and safety glasses.

METAL FAB & MACHINING 12: ADV. MACHINING

Pre-requisite - Metal Fabrication 12

Depending on the number of student requests this course MAY be combined with other Grade 12 Metal Fabrication & Machining courses.

This course expands on the fundamentals taught in Metal Fabrication and Machining 11 and 12 by focusing on lathe and milling machine generated parts. Examples of topics covered include: interpreting metal classification and identification systems, interpreting engineering drawings, using vernier micrometers to produce a variety of bearing fits and making specialized tool holders. Students are provided with an opportunity to improve their knowledge and skills in this area through project-based learning. Coveralls, full coverage footwear and safety glasses required.

TRADES & TECHNICAL TRAINING/APPRENTICESHIP PROGRAMS

ACEIT 12A

Content: ACEIT is a dual-credit industry certification program that enables secondary school students (Grade 11 or 12) to earn High School Graduation credits and the opportunity to receive credit for the first level of the technical training in an Industry Training Authority program or apprenticeship. Most of these courses are offered in Terrace at NWCC or the Northwest Trades and Employment Training Centre. Millwright Foundations is offered at Mount Elizabeth Secondary. Please contact the career counselor (Mr. Sluyter in 2017) to discuss this program.

Course Work: Some of the trades offered may include: Automotive Service Technician-Foundation, Carpentry-Foundation, Professional Cook-level 1, Electrical-Foundation,

Heavy Duty Mechanic Equipment Technician/Commercial Transport-Foundation, Industrial Mechanic (Millwright)-Foundation, Welder-level C, Hairdressing. Some of these courses run every 2 years.

SECONDARY SCHOOL APPRENTICESHIP

Content: Earn money while going to school. Sign on with an employer as an apprentice, complete 480 hours of paid work experience and receive credit for your first year of apprenticeship. You must see the career counselor to discuss this program.

Foundation, Welder-level C, Hairdressing. Some of these courses run every 2 years.

VISUAL & PERFORMING ARTS

VISUAL ARTS 10

Content: Explore the elements and principles of design in art.

Course Work: Students will create 2 and 3 dimensional images that demonstrate an understanding of a wide variety of sources, techniques and strategies for image development and design. The course involves Drawing, Painting, Printmaking, Clay and so on. Supplies needed: pencil, eraser, fine liner (black), pencil crayons

ARTS FOUNDATIONS 11

Content: This is a foundation course in which students learn about visual communication by making both two and three dimensional art projects.

Course Work: Students will explore fine art mediums including watercolor and acrylic painting, drawing, sculpting, hand building with clay, printmaking and much more. Supplies: pencil, eraser, fine black pen, pencil crayons.

ARTS FOUNDATION 12

Content: This is a general art course which offers advanced instruction in skills, techniques and allows students to specialize and continue developing ideas and imagery through their projects.

Course Work: Emphasis is on drawing, painting, printmaking, clay and sculpture. Supplies: pencil, art gum eraser, sketchbook, fine black felt pen, pencil crayons.

INDEPENDENT DIRECTED STUDIES 12A VISUAL ARTS

Content: Before selecting this course, you MUST discuss plans with Ms. Atkinson. To be successful in independent

Studies, you must be mature, self-motivated and capable of working with minimal support.

MUSIC 10: CONCERT BAND

Content: This course is co-curricular and is designed for students who have 2 or more years' experience on a band instrument.

Course Work: The content consists of continued development of woodwind, brass or percussion instrument playing and music fundamentals through performance. Note reading and some theory training is also included. There will be several performances throughout the school year and participation in those performances is mandatory. It is a year-long course.

INSTRUMENTAL MUSIC 11: CONCERT BAND

Content: This course is co-curricular and is designed for students who have 2 or more years' experience on a band instrument.

Course Work: The content consists of continued development of woodwind, brass or percussion instrument playing and music fundamentals through performance. Note reading and some theory training is also included. There will be several performances throughout the school year and participation in those performances is mandatory. It is a year-long course.

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STUDIO ARTS 11: PHOTOGRAPHY

Content: Learning to take better photographs and learn digital photography and editing skills.

Course Work: Students will explore the elements of good photography and develop the skills required for producing black and white photographs. Learn about a variety of darkroom techniques and the guidelines for good composition. Later you will learn how good composition. Later you will learn how good compositional skills translate to digital photography and develop editing skills in Photoshop. You will need a digital camera for this course.

STUDIO ARTS 12: PHOTOGRAPHY

Content: This course involves emphasis on intensive skill development and problem solving in the field of photography.

Course Work: Studies as they relate to assigned themes and areas of interest will be the focus. Emphasis will be on developing your skills in digital photography and photo editing. You will need a digital camera, notebook and pens.

DRAMA 10

Content: Creative Drama and Acting skills.

Course Work: This is an introductory course to performance. It involves work on small scripts. Creative drama is still a large focus in this course; students will generate their own scenes from which to work from. Examples of activities: Theatre Sports, Readers theatre, Video work and short script work.

THEATRE PERFORMANCE 11: ACTING

Content: Development of Acting Skills.

Course Work: A variety of activities centering around script-based materials will be introduced. Students will take performance risks, critique their own and other's performances, as well as identify theatre terminology in terms of body and voice, characterization and elements and structure of theatre performances. Examples of activities: reader's theatre, radio plays, improvisation, comedy script work, dramatic script work and final public performance.

MUSICAL THEATRE 11

Content: Training for and participating in a musical.

Course Work: This course will introduce students to the skills needed to perform a musical. Extensive training in acting, singing and dancing will be the focus of the course, leading to a final public performance.

THEATRE PERFORMANCE 12: ACTING

Content: Development of Acting Skills.

Course Work: A variety of activities centering around script-based materials will be introduced. Students will take performance risks, critique their own and other's performances, as well as identify theatre terminology in terms of body and voice, characterization and elements and structure of theatre performances. Examples of activities: reader's theatre, radio plays, improvisation, comedy script work, dramatic script work and final public performance.

MUSICAL THEATRE 12

Content: Training for and participating in a musical.

Course Work: Focus of this course will be extending and polishing singing, dancing and acting skills, leading to a final

THEATRE PRODUCTION 11

Content: An introduction to elements of backstage theatre.

Course Work: Students will help design and build sets, props, lighting plans and sound plot as well as learning to operate sound and light boards for live performance. Examples of activities: lighting design and set construction, theatre history, special effects and back stage management.

THEATRE PRODUCTION 12: THEATRE MANAGEMENT

Content: Students plan and implement pre-production, production and post-production processes required for a live production.

Course Work: Students will learn and become responsible for production management, stage management and house management as well as technical direction. Examples of activities: creating a company, budget, fund-raising, scheduling, market research, publicity, designing and printing programs and tickets, box office, creation and use of prompt book, running cues, running of show during performance. Note: Theatre Production 12: Theatre Management is only open to a maximum of two students per semester and must have Mr. Jones' permission before selecting the course.

THEATRE PRODUCTION 12: TECHNICAL THEATRE

Content: Advance skills in backstage theatre.

Course Week: Students will design and build sets, props, lighting and sound plots as well as operate sound and lighting boards for a live production. Students will also experience elements of costuming and make-up for theatre performance. Examples of activities: set design and construction, sound work, lighting design for a production, costuming, special effects and backstage management.

BA FIRST NATIONS ART & DESIGN 10

Content: Students will learn to do increasingly more complex designs and continue to build on forms studies in First Nations Design 9.

Course Work: Emphasis will be upon developing a personal style that reflects the imagery of the Haisla people. Students will explore a variety of media. Supplies: pencil, eraser.

Public performance. Cost to student: \$30.00 is required for a personal make-up kit. An additional cost for costuming may

arise. Theatre Production 12: Technical Theatre Perquisites: Stagecraft 11 or Theatre Production 11: Advanced skills in backstage theatre.

Students will also experience elements of costuming and make-up for theatre performance. Examples of activities: set design and construction, sound work, lighting design for a production, costuming, special effects and backstage management.


COURSE SELECTION INSTRUCTIONS

STUDENTS MUST CHOOSE **8** SUBJECTS AS FOLLOWS:

MANDATORY COURSES - SHADED IN GREY

MUST CHOOSE 1 OTHER COURSE WITH

MUST CHOOSE 1 OTHER COURSE WITH 

CAN CHOOSE MORE THAN 1 COURSE WITH OR 

CAN CHOOSE ANY ELECTIVES IN BLACK FONT

COURSE SELECTION FORM

MANDATORY COURSE

GRADE 9

1. English
2. Math
3. Social Studies
4. Science
5. P.E.

GRADE 10

1. English
2. Math (choose one)
3. P.E.
4. Career Life Education 11
5. Science
6. Social Studies

GRADE 11

1. English
2. Math (choose one or more in blue below)0
3. Science (choose one in green)
4. Social Studies (choose one or more in blue)
5. Career Life Education 11

GRADE 12

1. English (+ choose one or more in green)
2. Graduation Transitions

NEXT - PUT A CHECK MARK BESIDE 1 OR MORE COURSES BELOW:

GRADE 10

1. English _____
2. Communications _____
3. First Peoples English _____

GRADE 11

1. Communications _____
2. First Peoples English _____
3. Science and Technology _____
4. Earth Science _____
5. Biology _____
6. Chemistry _____
7. Physics _____
8. English _____

GRADE 12

1. Communications _____
2. English _____

NEXT - PUT A CHECK MARK BESIDE 1 OR MORE COURSES BELOW:

GRADE 10

1. Apprenticeship and Work Place Math _____
2. Foundations & Pre-Calc Math _____

GRADE 11

1. Apprenticeship and Work Place Math
2. Foundations of Math
3. Pre-Calculus

GRADE 12

1. Precalculus
2. Calculus

NEXT CHOOSE YOUR ELECTIVES:

GRADE 10

1. Clothing and Textiles (Sewing) _____
2. Food Studies _____
3. French _____
4. Modern Languages _____
5. Metal Work _____
6. Wood Work _____
7. Drafting and Design _____
8. Visual Arts _____
9. Music - Concert Band _____
10. Drama _____

GRADE 11

1. BC First Nations 12 _____
2. History12 _____
3. Geography 12 _____
4. Comparative Civilization 12 _____
5. Clothing and Textiles (Sewing) _____
6. Textiles Arts & Crafts _____
7. Food Studies _____
8. Child Development _____
9. Family Studies 12 _____
10. Tourism _____
11. French _____
12. PE _____
13. Superfit/Basketball _____
14. Superfit/Hockey _____
15. Automotive Technology _____
16. Carpentry & Joinery _____
17. Drafting and Design _____
18. Metal Fabrication and Machining _____
19. Arts Foundations _____
20. Instrumental Music _____
21. Studio Arts _____
22. Theatre Performing _____
23. Earth Science _____

- 24. Biology _____
- 25. Chemistry _____
- 26. Physics _____
- 27. Work Experience _____
- 28. Photography _____
- 29. Theatre Management _____
- 30. Technical Theatre _____

Electives continued...

GRADE 12

- 1. BC First Nations _____
- 2. History _____
- 3. Geography _____
- 4. Comparative Civilizations _____
- 5. Clothing and Textiles (Sewing) _____
- 6. Food Studies _____
- 7. Family Studies _____
- 8. French _____
- Foundations of Math _____
- 9. Pre-Calculus _____
- 10. Calculus _____
- 11. Modern Languages _____
- 12. PE _____
- 13. Superfit/Basketball _____
- 14. Superfit/Ball Hockey _____
- 15. Biology _____
- 16. Chemistry _____
- 17. Physics _____
- 18. Automotive Technology _____
- 19. Body Repair and Finish _____
- 20. Auto Tech - Engine & Drive Train _____
- 21. Auto Tech - Electricity & Electronics _____
- 22. Carpentry and Joinery _____
- 23. Cabinet Construction _____
- 24. Furniture Construction _____
- 25. Drafting and Design _____
- 26. Drafting/Design/Architecture/Habitat _____
- 27. Metal Fab & Machining _____
- 28. Metal Fab & Machining/CNC Process _____
- 29. Metal Fab & Machining/Adv. Machining _____
- 30. Trades & Technical Training Apprent. _____
- (Every 2 years)
- 29. Arts Foundation _____
- 30. Independent Directed Studies V.Arts _____
- 31. Instrumental Music _____
- 32. Studio Arts - Photography _____
- 33. Theatre Performance _____
- 34. Musical Theatre _____
- 35. Theatre Management _____
- 36. Technical Theatre _____
- 37. Mechatronics (*New Course*) _____

REMINDER - CHECK LIST

STUDENTS MUST CHOOSE 8 SUBJECTS! PLEASE REMEMBER TO COUNT YOUR COURSES BY **GRADE**:

MANDATORY COURSES

MUST CHOOSE 1 OTHER COURSE WITH

MUST CHOOSE 1 OTHER COURSE WITH

CAN CHOOSE MORE THAN 1 COURSE WITH OR

CAN CHOOSE ANY ELECTIVES IN BLACK FONT

BAND CAN BE CHOSEN AS A 9th COURSE.