

# **MOUNT ELIZABETH MIDDLE SECONDARY SCHOOL**

2024/2025 COURSE CATALOGUE



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## **Course Selection**

This catalogue contains information regarding course selection at Mount Elizabeth Middle Secondary School. Courses offered for Grades 10-12 are described in detail.

For Grades 10-12: To graduate on the 2018 Graduation Program, students must earn at least 80 credits—the equivalent of 20 courses. Each course is worth 4 credits. To confirm the credits you already have and the credits you still need in order to graduate see your assigned Counsellor.

Most students complete their grad requirements in three years. Some students can finish in 2-1/2 years, while others take an extra semester or year. On occasion students receive permission to come back to Mount Elizabeth to upgrade their mark in a specific course.

Students are advised to check on the secondary school courses expected or recommended as pre-requisites from their desired post-secondary schools. Keep in mind that it's one thing to graduate from secondary school and it's another to have what you need to enter a post-secondary program at a college or university.

We expect each student to take a full load of eight courses within the school year unless their personal education plan and goals do not require this. Some courses involve a separate application; students may see their Counsellors for more information. You may take additional Mount Elizabeth courses outside the regular school day. For example, Band is "an outside the regular day" course.

If you have any questions relating to this Course Planner, contact the Principal at Mount Elizabeth Middle Secondary School. Our school Counsellors complete course selection with Grades 8-11 students in late February/early March. If you have any questions around course selections/student requests, contact Ms. McInnis (A-K) & Ms. Johnsen (L-Z). Counsellors are according to student's last name.

## **Graduation Requirements**

To graduate on the 2018 Graduation Program, students must earn at least 80 credits—the equivalent of 20 courses. Each course is worth 4 credits.

52 credits of courses = 13 courses

12 credits of Grade 12 elective courses = 3 courses

16 credits of Grade 10, 11, or 12 elective courses = 4 courses

To graduate, students must also write the Literacy Assessment 10, Literacy Assessment 12, and the Numeracy Assessment 10.

Students are required to enrol in an Indigenous-focused course to expand their knowledge about Indigenous perspectives, histories, and cultures in order to graduate.

### **CORE Courses**

An Arts Education

and/or Applied Design, Skills, and Technologies 10, 11, or 12 course

Career Life Connections & Capstone

Career Life Education 10

a First People's English Language Arts 10 course

an English Language Arts 11 course

an English Language Arts 12 course

a Mathematics 10 course

a Mathematics 11 or 12 course

Physical & Health Education 10

Science 10

a Science 11 or 12 course

Social Studies 10 a Social Studies 11 or 12 course

### **Electives**

3 x Grade 12 courses

4 x Grade 10, 11, or 12 courses

### **Assessments**

Literacy Assessment

Numeracy Assessment

**APPLIED DESIGN  
SKILLS &  
TECHNOLOGY**

## Course Descriptions

### APPLIED DESIGN SKILLS & TECHNOLOGIES: HOME ECONOMICS

#### **FOOD STUDIES 10**

Students will add to their culinary repertoire and further develop their knowledge of food using the design process. This course will focus on the needs and concerns of the individuals and society when it comes to food. Students will be asked to identify issues as they relate to food and use creative and critical thinking skills to design, develop, and create practical solutions to such issues. Students will be asked to consider various global views, values, and beliefs in the development of innovative solutions. Investigation into and development of culinary techniques will serve to enhance student's understanding and given them an opportunity to create meaningful food products.

#### **TEXTILES 10**

If you like to make things to use or wear, then this course is for you! This course encourages students to interact with the design process through the creation of various sewing. Whether you are a beginner or experienced sewer, develop your sewing skills while making a garment that is uniquely yours. You will finish this course with skills that will last you a lifetime.

#### **FOOD STUDIES 11**

Students will develop skills to prepare and design complex recipes based on themes, needs, and constraints. Students will apply advanced design thinking skills to concepts such as food recalls, food security, food guides, food justice, and food marketing. Through the investigation of personal, social, environmental, and ethical issues, students will develop designs to prototype dishes and explore ingredients, functions, proportions, temperatures, and preparation methods.

#### **TEXTILES 11**

Learn to sew, or improve your skills! This course is designed for everyone from the "never ever" sewer to those students who have had some experience. The course covers the sewing basics that include operation of the sewing machine, pattern and fabric selection and layout, and garment construction techniques. More advanced sewers will be encouraged to choose more difficult projects.

#### **FOOD STUDIES 12**

Prerequisite: Food Studies 11 is recommended

Food Studies I I is expanded upon in this course. More detailed analysis of food and its preparation is emphasized. Products are more advanced.

## **APPLIED DESIGN SKILLS & TECHNOLOGIES: HOME ECONOMICS (continued)**

### **TEXTILES 12**

Gain knowledge and develop skills as you construct unique projects and garments using various fabrics and equipment. Whether you have used a sewing machine or not, but have an interest in learning, this course is for you. Students will be given the opportunity to learn and build on skills in areas that are of particular interest to them while being exposed to new and innovative technologies in textile creation and garment construction.

## **APPLIED DESIGN SKILLS & TECHNOLOGIES: TRADES**

### **DRAFTING 10**

Drafting is essential in all Trades and Engineering careers. This course is designed to introduce students to a drafting lab environment and to the tools that are typically used in drafting fields. 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 multi-part projects. This course has both a mechanical and an architectural component.

### **METALWORK 10**

This course is designed to introduce students to a metalwork shop environment and the hand tools and machines that are typically used there. The emphasis will be on generalized knowledge of procedures, rather than a specialized focus. The course involves both classroom and shop-based work, with emphasis on hands-on work and project-based assessment.

### **WOODWORK 10**

This introductory course is a practical, project-driven course with an emphasis on the safe operation of both machines and hand tools. In this course, the student will design and construct wood projects in the areas of carpentry and joinery.

### **DRAFTING 11**

A good understanding of drafting will be a benefit to any person looking at a career in the trades or engineering. This course develops basic skills in creating and understanding technical drawings. The emphasis will be on careers and trades that require an understanding of drafting and computer-based design.

### **METALWORK 11**

This course will cover basic metalworking theory, machining, sheet metal fabrication, welding, forging, and casting. There will be four mandatory projects in the term, as well as one project that is open to student choice.

## **APPLIED DESIGN SKILLS & TECHNOLOGIES: TRADES (continued)**

### **WOODWORK 11**

This course is designed to develop skill cutting, shaping, fitting, and turning wooden projects. Safety and correct procedures are stressed while students are completing their small projects. Students are encouraged to complete one major project of their own design.

### **DRAFTING 12**

The course develops more advanced skills in creating and understanding technical drawings. Students will be required to solve design and construction problems which are common in the workplace.

### **MACHINING & WELDING 12**

This course is an extension of Metalwork 12, with students increasing their knowledge of metalwork and taking on more intricate projects requiring advanced skills. Students may choose to specialize in either Welding & Fabrication or Machining.

### **METALWORK 12**

This course is a continuation of Metalwork I I as well as more advanced theory of metalwork. Either in a large project or several smaller projects, the assignments completed are to include the techniques that will be laid out for the student.

### **WOODWORK 12**

This course builds on the woodworking skills developed in Carpentry I I with a focus on more advanced design, techniques, and finishing. Students will be asked to do a mandatory review/skill-building project to start the year.

### **MECHATRONICS 12**

This fast-paced, hands on course where students have the opportunity to design, build, and program competition robots. Students will have numerous opportunities to build various versions of robots. Student will build on their block based coding knowledge by advancing to Robot-C language coding. Students will also have the opportunity to program various sensors to allow the robot to move autonomously. Teamwork skills and interpersonal skills are strengthened in this fast-paced team environment!

### **ELECTRONICS & ROBOTICS 10**

This is a fast-paced, hands-on course where students have the opportunity to design, build, and program competition robots. Focus will be on the design process and students will learn the basics of construction. Students will learn various coding skills, starting with block based coding. Teamwork skills and interpersonal skills are strengthened in this fast-paced learning environment!



# **ARTS EDUCATION**

## **ARTS EDUCATION: DRAMA**

### **DRAMA 10**

This course is for students who want to act and to grow in terms of imagination, expression, confidence, teamwork, interpretation, theatre skills, and understanding of drama. Actors will develop skills through drama exercises and improvisation. The second term is dominated by a class play, which will be performed in front of a small audience.

### **MUSICAL THEATRE 10**

This course is for students who want to participate in a Musical Theatre production. The focus is on commitment, self-discipline, teamwork, and theatre skills. Students will complete activities related to the preparation, rehearsal, and performance of a musical. The role in which a student is cast will determine the individual's number of days of rehearsal and amount of acting, singing, and/or dancing.

### **DIRECTING & SCRIPT DEVELOPMENT 11**

This is a course for students who want to venture into the writing and directing of plays. As playwrights and directors, students will learn about the writing process; various script techniques; forms and styles; developing character and themes; working with a cast and crew; and preparing for performance.

### **DRAMA 11**

This course is for students who want to act, and to grow in terms of imagination, expression, confidence, teamwork, interpretation, theatre skills, and understanding of drama. Actors will develop skills through drama exercises and improvisation, work with scripts, analyse characters' goals and motivations, use their bodies and voices to develop characters, rehearse and prepare scenes and plays, perform, and critique their own and fellow students' work.

### **MUSICAL THEATRE 11**

This course is for students who want to participate in a musical theatre production. The focus is on commitment, self-discipline, teamwork, and theatre skills. Students will complete activities related to the preparation, rehearsal, and performance of a musical. The role in which a student is cast will determine the individual's number of days of rehearsal and amount of acting, singing, and/or dancing.

### **THEATRE PRODUCTION 11**

Students develop and apply the skills needed for the design, technical, and management aspects of a theatre production. They work on set, props, lighting, sound, costumes, make-up, promotion, running crew, and front of-house jobs. Fall classes work primarily on the school musical; spring classes work on festival plays and other projects. Some crewmembers are also needed outside the regular school day for the necessary workshop, rehearsal, and performance tasks.

## **ARTS EDUCATION: DRAMA**

## **ARTS EDUCATION: DRAMA (continued)**

### **DIRECTING & SCRIPT DEVELOPMENT 12**

Pre-requisite: Directing & Script Development 11.

Students will refine their skills as playwrights and directors. They will learn more about finding their own voice, establishing an overall vision in their work, working with cast and crewmembers, publishing their work, using scripts as social commentary, and directing as an art form.

### **DRAMA 12**

Students will build on the acting skills they developed in Drama 11. They will refine their ability to convey a message, work with a central image, move in and out of a role, develop and sustain a character, interpret scripts, understand a play's context, and perform. In addition, they will apply different theatre styles; identify the contributions of significant actors, directors, playwrights, and plays; collaborate to solve performance and production problems; and provide leadership.

### **MUSICAL THEATRE 12**

This course is for students who want to participate in a musical theatre production. The focus is on commitment, self-discipline, teamwork, and theatre skills. Students will complete activities related to the preparation, rehearsal, and performance of a musical. The role in which a student is cast will determine the individual's number of days of rehearsals and amount of acting, singing, and/or dancing.

## **ARTS EDUCATION: MUSIC**

### **CONCERT BAND 10 - 12**

Students, by the end of grade 12, will develop competency on the full range of their chosen instrument. This includes tuning, range, technique, and musicality

## **ARTS EDUCATION: DANCE**

### **DANCE 9, 10, 11, 12**

This course will introduce elements of dance in a variety of techniques, genres, and styles of dance and movement. Students will create and perform movement phrases both collaboratively and as an individual. They will learn to receive and apply constructive feedback and reflect on rehearsal and performance experiences. (This course will be offered if the teacher is available.)

## **ARTS EDUCATION: VISUAL ARTS**

### **MEDIA ARTS 9**

This visual arts course is designed to explore and build visual literacy skills as it pertains to camera and video production. Emphasise is on enhancing student visual awareness, and using design concepts to create visual impact in the creation of art works. Students will learn to recognize and make creative choices in the planning, making and analyzing in media artworks. Projects may include taking photos, creating animation, making videos, and exploration of social media platforms.

### **ART STUDIO 10 - 11**

Art 9, 10, and 11 are foundation visual art curriculum that focuses on 2D & 3D works. It is geared towards beginner and intermediate art students. The focus is on how to draw, paint (acrylic, watercolour, mixed-media), and sculpt (assemblage, ceramics) in a variety of media. The fundamentals of design and how to use colour will be applied to projects. This course will teach you how to build on your ideas and personal challenges to be more inventive and creative. Projects vary from semester to semester. Several weeks are devoted to independent, free choice projects.

### **MEDIA ARTS 10**

This course is designed to give you a good foundation in a variety of computer programs and design techniques that will serve you well in the future. We'll explore Adobe Photoshop, InDesign, Premiere and manual operation of DSLR cameras for photography and video. You will create graphics and materials for publication and learn basic photo manipulation. You will also work in groups to produce original films, learning about storyboarding and video production in process. This course, great for all students willing to explore their creativity, includes a mix of group work and independent work.

### **PHOTOGRAPHY 10 - 11**

Get introduced to manual photography with a DSLR camera! Learn the basic principles of digital camera operation, compositional and critiquing skills, photographic history, photo manipulation using Adobe Photoshop, and contemporary uses of photography. This course is a good fit for a creative student who is driven to create art. Students should be able to work independently as activities will frequently require work outside of the classroom.

### **ART STUDIO 12**

This is an Art 12 course that has a 2D & a 3D FOCUS. Students continue to develop creativity in drawing, painting, sculpting, and printmaking. Cultural, personal, and historical contexts are incorporated into art projects. Projects vary from semester to semester. Students can choose to develop independent projects or prepare for a final solo exhibition of their work.

## **ARTS EDUCATION: VISUAL ARTS (continued)**

### **MEDIA ARTS 12**

In this advanced course, students will choose areas to study for the semester. Course projects will be focused on student interests and may include developing a digital/online portfolio, exploring advanced photographic and filmmaking techniques, mastering the creation of unique 3D characters and level design, producing a series of animations, developing original work for a photography exhibit, designing functional and quality websites for personal or professional uses. On a weekly basis, students will share their work with each other as it progresses, inviting feedback and critique. Students are expected to be able to work independently and to be extremely self-motivated.

### **PHOTOGRAPHY 12**

This is an advanced course in digital photography. Students will expand on their understanding of how to both "read" or interpret the visual imagery around them and how to communicate personal ideas through their photographs using strategies of composition, theme, and symbolism, among others. The course may explore photographic subjects such as special effects, photojournalism, landscape, portrait, and advertising with a focus on self-directed projects. Students are expected to be able to work independently and to be extremely self-motivated.

# **CAREER EDUCATION**

## **CAREER EDUCATION**

### **CAREER LIFE EDUCATION 10**

This course launched in the 2018-2019 school year. Its "big ideas" are balance of work and personal life; network of family, friends, and community members; lifelong learning and adaptation; internal and external factors of career planning; the global economy; the cycle of planning, evaluation, and adaptation.

### **TEACHER ASSISTANT 12**

Students must apply for this course, which involves being a Teacher's Assistant. Application is made through the Counsellor and Administrator and requires authorization of a sponsoring teacher and the applicant's parent/guardian. The student will provide assistance and support as directed by the supervising teacher.

### **TOURISM 11**

The theory part of this course is workbook certificate programs in Serving it Right (B.C.'s Responsible /Alcohol Beverage Service Program), Food Safe Level 1, Local Tour Guide, Front Desk Agent, and World Host Fundamentals (Customer Service Training). A few field trips are taken. Other course work includes researching world and B.C. travel destinations. This course is useful for jobs in the food service industry and tourism as a whole, with many skills developed being transferable to several jobs/careers.

### **FORENSIC SCIENCE**

Although the crime scene represents the first step in solving crimes through forensic science, the crime laboratory plays a critical role in the analysis of evidence. This course focuses on the analysis of evidence and testing that takes place within this setting. We will examine some of the basic scientific principles and knowledge that guides forensic laboratory processes, such as those testing DNA, toxicology, and material analysis. Techniques such as microscopy, chromatography, odontology, entomology, mineralogy, and spectroscopy will be examined. Must have Science 10; Chemistry 11 and Life Science 11 are highly recommended.

### **CAREER LIFE CONNECTIONS & CAPSTONE**

Recommended to be taken in Grade 12

In a few short months, you will be released from the school system and set free into the world. Before you go, let's talk about some things that the rest of your schooling didn't teach you! Topics include apartment hunting; school or work; basic budgeting and taxes; buying and owning a car; dating and relationships; people skills; home ownership; choosing a life partner; having a family; investing, saving, and retirement; volunteerism and being a useful citizen; success, happiness, and confidence. You will

complete your Capstone Project required for graduation in this course through Distance Learning. More information will be shared in the new school year.



# **ENGLISH LANGUAGE ARTS**

## **ENGLISH LANGUAGE ARTS**

### **First People's ENGLISH 10**

English First People's 10 has now been broken into two components worth two credits each. Students will have Composition 10 and Literary Studies 10 shown on a report card and a transcript of grades as two separate course credits. The focus of the course is a thematic study of First People's literature, local literature, community-focused text, and writing for advocacy and expression.

### **EFP LITERARY STUDIES & WRITING11**

English First Peoples 11 is an equivalent course to English 11. It covers the same learning outcomes as English 11. What distinguishes it from English 11 is that it is based on the study of modern literature and materials representing authentic First Peoples' voices.

### **LITERARY STUDIES 11**

This course allows students to delve more deeply into literature, and, of all the new course, is the one that mostly closely mirrors the "classic" English class. Depending on the teacher, students may study literary works or a specific genre, a specific time period, a specific style, a specific author, or a combination of all of these! Students will increase their literacy skills, expand their development of educated global citizens, broaden their understanding of themselves and the world, develop their skills of analysis through writing, and further develop their higher-level thinking.

### **ENGLISH FIRST PEOPLES 12**

English First Peoples 12 is an equivalent course to English 12. It covers the same learning outcomes as English 12. What distinguishes it from English 12 is that it is based on the study of modern literature and materials representing authentic First Peoples' voices.

### **ENGLISH STUDIES 12**

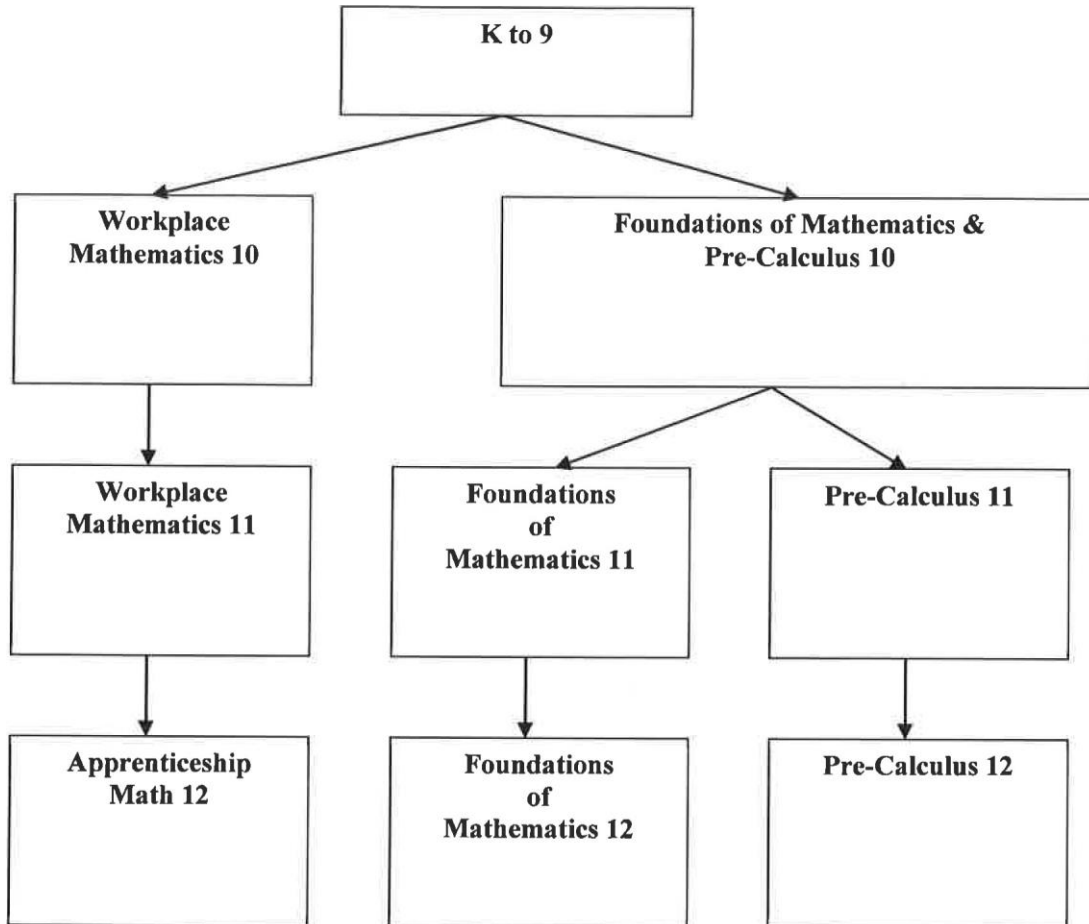
English Studies 12 draws together the learning experiences of 12 years of schooling, it encourages the development of students' confidence, independence, and appreciation in the areas of reading, writing, oral communications, viewing and representing. It continues to develop and enhance students' appreciation of language and literature. Students will read for a variety of purposes, demonstrate interpretive understanding and critically analyse short stories, novels, poetry, drama, and nonfiction. In writing, students will write in a variety of formats employing all stages of the writing process: prewriting, drafting, editing, proofreading, and publishing.

Oral communication skills will develop a critical awareness and appreciation of audience, purpose and context. In viewing, students will identify, analyse, interpret and evaluate. Students will select and create a variety of representational forms to assist in the expression, development and extension of ideas.

# **MATHEMATICS**

## **MATHEMATICS**

There are three different math pathways, each with a different focus. Not all of these courses may be offered so check with your school counsellor.



The Workplace Math pathway is for students intending to enter a trades program at a technical college or enter the work force after graduation. While this pathway is well suited as preparation for many trades, some trades (such as electrician) require a higher academic math.

The Foundations of Math pathway is designed to prepare students for post-secondary programs that do not require the study of Theoretical Calculus. These programs include Humanities and Fine Arts.

The Pre-Calculus pathway is designed to prepare students for post-secondary programs that require the study of Theoretical Calculus. These programs include Commerce, Engineering, Mathematics, Medicine, and Science.

It is important that students research the math requirement for their intended post-secondary education. Some institutions will accept courses from different math

pathways as equivalent; for example, Foundations of Math 12 may be accepted as equivalent to Pre-Calculus 11.

### **FOUNDATIONS OF MATH 10 & PRE-CALCULUS 10**

Topics in this course include arithmetic sequences, exponent laws, radicals, classifying numbers, algebra, linear relations & interpreting graphs, functions, linear equations and systems, trigonometry, and financial literacy. This course leads to Pre-Calculus 11 or Workplace Mathematics 11.

### **WORKPLACE MATH 10**

Topics in this course include measurement, geometry, graphical representations, probability & statistics, trigonometry, and financial literacy. This course leads to Workplace Mathematics 11.

### **PRE-CALCULUS 11**

This course is strongly recommended for students planning to pursue post-secondary studies in the Faculty of Science. Topics in this course include radicals, geometry, trigonometry, relations and functions, linear inequalities, rational expressions & equations, quadratic expressions and functions, and financial literacy. This course leads to Pre-Calculus 12.

### **WORKPLACE MATHEMATICS 11**

This course is recommended for students planning on entering the workforce directly after high school or pursuing a trades career. Topics in this course include reasoning, rates of change, measurement, interpreting graphs, data management and statistics, and financial literacy.

### **CALCULUS 12**

This course is designed to prepare students for a first year post-secondary Calculus class. Topics in this course include limits (determined graphically and algebraically), rules for differentiation (finding derivatives), applications of differential calculus, and an introduction to integral calculus.

### **MATHEMATICS (continued)**

### **PRE-CALCULUS 12**

Topics in this course include graph transformations, extensive trigonometry involving degrees and radians, graphs, and identities, higher order polynomials and their graphs, exponential and logarithmic functions, and combinatorics. This course leads to Calculus 12.

# **PHYSICAL EDUCATION**

## **PHYSICAL EDUCATION**

### **PHYSICAL & HEALTH EDUCATION 9 & 10**

This course offers a wide range of opportunities through sport and recreation activities. The content addresses physical literacy, health and active living, social and community health and mental health well-being. While movement skills and personal fitness are emphasized, health topics are also addressed. Topics include relationships, mental health issues, healthy sexual decision making, substance misuse and protecting oneself in dangerous and uncomfortable situations.

### **OUTDOOR EDUCATION 11/12**

This course is designed to assist the student in discovering how to safely enjoy the leisure world around them. The student will gain a higher awareness of the recreational possibilities in their area. The course provides students with training in a variety of pursuits, including trip planning, hiking, map and compass navigation, winter travel, first aid, Bear Aware, survival skills, and other outdoor skills deemed appropriate by the instructor. There will also be a strong cultural component with students learning about local First Nations cultures, local ecosystems and their associated flora and fauna. All students will be required to be ready to participate in outdoor activities no matter the weather, and to be outfitted for field trips as described by the instructor.

### **ACTIVE LIVING 11/12**

This course is suited for students interested in more intensive physical activity and fitness development. The course covers fitness training principles, planning workouts, and monitoring exertion levels. In addition, students will develop and refine movement skills while safely participating in a variety of activities. Students will develop an awareness and appreciation in healthy choices in nutrition that enhance personal fitness; develop an awareness and appreciation in maintaining healthy relationships; and develop an awareness and appreciation in promoting mental well-being for managing physical. Emotional, and social changes during maturation.

### **SUPER FIT/BALL HOCKEY 11/12**

This is a higher level course suited for students that are not only interested in developing ball hockey skills but also developing and reaching personal health goals. The course will involve developing ball hockey skills, personal nutrition requirements, weight and circuit training. A positive attitude and work ethic are a must. Grade 10 students will only be accepted if recommended by the Physical Education Department.

# **SCIENCE**



## **SCIENCE**

### **SCIENCE 10**

This course covers three topics: Chemical reactions and Radioactivity in which students learn to classify matter, balance and classify chemical reactions, and differentiate between organic and inorganic compounds. They will also learn different radioactive decay processes and how radiation is used in current technologies. DNA and genetics where students will learn about DNA and the way genes are passed on from one generation to the next to determine traits in the offspring. Motion and energy where students learn about the relationships between velocity and acceleration as well as kinetic and potential energy.

### **CHEMISTRY 11**

Chemistry 11 is an interesting and challenging course that builds on concepts and skills developed in Science 8-10. The course begins with an in-depth study of matter, the periodic table, atomic theory, and the structure of atoms and molecules. The mole concept, chemical reactions, stoichiometry, and solutions are then studied in detail. As there is an emphasis on problem solving, students entering Chemistry 11 should have good math skills.

### **EARTH SCIENCE 11**

This course introduces students to skills associated with geology, geography, and environmental science. Hands-on projects and fieldwork are important components of this course. Topics for Earth Science I I are geology, mining, weather, snow science, environmental science, and geographical science (mapping/orienteering). The geography and geology sections of the course will focus on the Northwest.

### **LIFE SCIENCES 11**

Life Sciences 11 is a scientific discipline that studies life. The three big ideas selected for Life Sciences 11 are characteristics of living things, process of evolution, and taxonomy. Topics for Life Sciences 11 are life, evolution, and the great variety of organisms on Earth.

### **PHYSICS 11**

Physics 11 is an introductory course that focuses on the principles and theories of physics, encourages investigation of physical relationships, and illustrates the relationship between theory and application. The application of physics to everyday situations is highlighted. Topics for Physics 11 include kinematics, projectile motion, dynamics in one dimension, momentum, and energy, special relativity, nuclear fission and fusion. Students weak in math will find Physics difficult. Physics is dependant on good math skills.

## **ANATOMY AND PHYSIOLOGY 12**

Anatomy and Physiology 12 focuses on human biology, allowing students to develop an interest in and understanding of science by looking at how the diverse body systems are integrated to maintain homeostasis. Laboratory skills are essential. These skills are developed in lab activities that focus on the hypothetical as well as the practical. An emphasis on the processes of science is integral to the complete study of Anatomy and Physiology 12. The order of learning outcomes follows a sequence from cell structure and simple, biochemical processes to the organ systems themselves. Topics for Anatomy and Physiology 12 are cell biology, cell processes and applications, and human biology.

## **CHEMISTRY 12**

The concepts and principles introduced in Chemistry I I are developed further. The learning outcomes for Chemistry 12 are grouped under five curriculum organizers: reaction kinetics; dynamic equilibrium; solubility equilibria; acids, bases, and salts; and oxidation-reduction.

## **PHYSICS 12**

Physics 12 is the study of classical mechanics and electromagnetism. Designed to help students develop analytical and problem-solving skills, it provides opportunities for students to understand and apply the principles and concepts of physics to practical situations. Topics for Physics 12 are vector kinematics in two dimensions; dynamics; vector dynamics; work, energy and power; momentum; equilibrium; circular motion; gravitation; electrostatics; electric circuits; and electromagnetism.

# **SECOND LANGUAGES**

## **SECOND 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.

### **FRANÇAIS LANGUE 10**

This course is a continuation of the integrated study of all aspects of learning the French language begun in the lower grades. It includes the study of literature.

### **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.

### **FRANÇAIS LANGUE 11**

This is a continuation of the integrated study of all aspects of learning the French language begun in the lower grades. It includes the study of literature.

### **FRENCH 11**

Pre-requisite: French 10

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.

### **FRANÇAIS LANGUE 12**

This course completes the French language requirements for French Immersion students.

### **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.

# **HUMANITIES**

## **HUMANITIES**

### **SCIENCES HUMAINES 10**

This course is the required Social Studies course for French Immersion students. Its content covers the same topics as those covered in Social Studies 10.

### **SOCIAL STUDIES 10**

The Social Studies 10 course integrates the skills, knowledge and attributes that have been developed in earlier Social Studies courses and consolidates the competency of students in the areas of critical thinking, research and referencing, the development of evidence-based argument, and effective communication. Students will focus on Canadian content from the end of WWI to present day in the areas of political, economic, and social developments within Canada in Canada's role in international conflicts, environmental issues, and in the global economy. The knowledge, skills, and competencies that students will use and develop will prepare them to undertake further studies in the Social Studies curriculum and to participate in society as responsible, active and informed citizens.

### **PSYCHOLOGY 11**

This course focuses on individual behaviour. Emphasis will be placed on the history of psychology, stages in childhood and adolescence, how the brain works, psychological testing, and psychological disorders. This course will provide students with a better understanding of human behaviour and will help to improve personal self-awareness through case studies, films, and participatory activities.

### **SOCIAL JUSTICE 12**

Globalization? Terrorism? Disease and war? Environmentalism? Automation? Human rights? Political turmoil? Social media? What do they mean? Why do they matter? The world is changing at a faster pace than during any other period in history. Our values and worldviews are being challenged. Whether or not we realize it, the events that happen across the world affect Canada and have an impact on our day-to-day lives. Social Justice 12 aims to bring understanding of these changes through case studies, current events, and student-chosen topics. Possible themes in the course include global conflicts, artificial intelligence, technology, climate change, food crises, world poverty, sexism, and social movements.

### **COMPARATIVE CULTURES 12**

Comparative Cultures is a project-based learning course. Learners could potentially examine the Mayan bloodletting rituals, the art of Vatican City, and the witch hunts of the 1500's. Topics include belief systems, art, language, myths, agriculture, conflict, and architecture. The main goal of the course is to help students connect with the rich cultures that inhabit this world and explore the unwritten histories discovered by archaeologists.

## **HUMANITIES (continued)**

### **BC FIRST PEOPLES 12**

Come and learn and experience BC First Peoples culture, traditions, struggles, resiliency and strengths. Learn about First Peoples connection to the land, traditional knowledge, traditional ecological knowledge, the impact of colonialism, governance, treaty issues, and today's ongoing challenges. This course will give you a chance to explore, develop an understanding of, and connect Indigenous issues to your interests as well as to your future. The BC First Peoples course provides essential knowledge if you are considering a career in Health Care, Law, Politics, Justice, Social Work, Teaching, Arts, Music, Literature or many other areas.

### **PHYSICAL GEOGRAPHY 12**

While travelling, have you ever viewed a unique landscape or experienced a different climate or storm and wondered how it was formed or what caused it? If so, you will love Physical Geography! It involves learning about the Earth and our dynamic environment. Physical Geography studies land forms, volcanism, rivers, glaciers, climate, weather, plate tectonics, topographical maps, aerial photographs, natural disasters, biomes, and natural resources management. Skills from this course can be applied to the following: careers with the Ministry of the Environment, Environmental Law, Rural/Urban Planning, Aviation, and Navigation, plus many others.

### **LAW STUDIES 12**

Law Studies 12 explores the legal rights and responsibilities that affect all Canadian citizens. Students scrutinize the boundaries of our laws, and examine the roles of different players within the justice system. Through debating real cases, students come to a complex understanding of how the legal process functions. The course involves regular class discussion and critical thinking, primarily through studying current events and issues. Students are expected to consider various viewpoints and make reasoned judgements in order to develop their own positions.

### **PSYCHOLOGY 12**

In a continuation of Psychology I I, this course examines behaviours that fall outside what is considered "normal" behaviour. Examination of society's structures and institutions, groups and group behaviour, roots of aggression, discrimination, and anti-social behaviour are the broader topics that to be studied. Some of the more specific subjects include cults, serial killers, psychopathy, and peer pressure. This course will involve more in depth analysis of well-known people with deviant personality disorders.

## **HUMANITIES (continued)**

### **20<sup>th</sup> CENTURY WORLD HISTORY 12**

The 20<sup>th</sup> Century involves a wide variety of fascinating people and events that are relevant to the world today. From the role of individuals, mass movements, conflicts, cultural and technological changes, to various beliefs and philosophies, students will be exposed to the forces that irrevocably changed the 20<sup>th</sup> century world and created many of the issues unravelling today. This course deals with issues beginning with the Paris Peace Conference at the end of WWI and examines the political, economic, social, individual, religious, technological, geographic, military, and intellectual forces that led to and impacted events from that date forward. Students will use the content from this period of history to expand on and develop their skills in the interpretation, analysis, evaluation and understanding of historical events.