

AZTECS

**Course Planning Booklet
2018-2019**

ÉCOLE ALPHA
SECONDARY SCHOOL
HOME OF THE AZTECS

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COURSE SELECTION 2018 - 2019

This Course Selection book provides students and parents with the necessary information to develop a meaningful educational plan for the graduation program.

EDUCATIONAL PLANNING

Planning for Success

As a student at École Alpha Secondary School the path to future success relies on your active involvement. The key to success is **you!** Good planning takes time and thought. Your course selection is an important decision. Discuss your goals with your parents/guardians and counsellor. In selecting courses, particularly for Grade 10 and 11 students, post-secondary options should be considered.

Many opportunities are available here at Alpha. Make your high school years challenging as well as enjoyable.

- The information that you provide is used to build our timetable and determine staffing
- Every effort will be made to provide you with the courses that you have selected
- Because of various timetable constraints your initial course requests may have to be adjusted
- Students are expected to take at least 8 courses per year
- Students may take a 9th or 10th course that is scheduled before or after the regular school day

CHOOSING COURSES

We encourage students to read course descriptions carefully and consult with their parents/guardians and their counsellor before finalizing course selections for next year.

POST-SECONDARY INFORMATION

Each student is responsible for ensuring that selected courses meet post-secondary requirements in accordance with his/her learning plan. If you have questions, please meet with your counsellor.

ADVANCE PLACEMENT (AP) COURSES

The AP Program gives students the opportunity to take post-secondary level courses while they are still in high school.

AP courses are challenging and demanding. However, the rewards are many: much smaller class size (compared to post-secondary), complimentary use of textbook(s) and advanced credit and/or placement at participating colleges and universities throughout the world are just some of the benefits.

In addition, students who take an AP course and score a 5 or 4 typically perform better in university than students who do not take an AP course

In order to obtain advanced placement and/or credit status at a participating college or university, a student will need to write the AP exam(s). Also, students need to check with the post-secondary institution of their choice to see whether AP exams are accepted and what AP exam grade is needed to gain credit and/or advanced placement for a particular course. It is strongly recommended that students conduct this investigation before ordering AP exams.

If an AP course is not offered, students can write the corresponding AP exam, however the exam mark is not used in admissions calculations.

Information about ordering AP exams will be available to all students in January. Please note that each exam costs approximately \$135 (the price is subject to change with notice due to the fluctuating value of the Canadian dollar) and is payable by the end of February. AP exams are written in May. Full course descriptions can be found at the AP website:

<http://apcentral.collegeboard.com/apc/public/courses/descriptions/index.html>

AP 2D DESIGN PORTFOLIO 12

Students who sign up for this course must have the drive and discipline to create a large body of high-quality work that shows sophisticated development of skills and ideas. Upon completion, students have an opportunity to receive post-secondary credits. Students will work in a variety of 2-D media: graphic design, typography, digital imaging, photography, collage, fabric design, illustration, painting, and printmaking. A variety of approaches such as: representation, abstraction, and expression as well as a focus on the elements and principles of art and design. It is highly recommended that students are enrolled in an art class for both semesters.

AP 3D DESIGN PORTFOLIO 12

Students who sign up for this course must have the drive and discipline to create a large body of high-quality work that shows sophisticated development of skills and ideas. Upon completion, students have an opportunity to receive post-secondary credits. Students will work in a variety of 3-D media such as recycled materials, cardboard, and ceramics. It is highly recommended that students are enrolled in an art class for both semesters.

AP BIOLOGY 12

The key concepts and related content that define the revised AP Biology course are organized around a few underlying principles: the process of evolution drives the diversity and unity of life; biological systems utilize free energy and molecular building blocks to grow, to reproduce and to maintain dynamic homeostasis; living systems store, retrieve, transmit and respond to information essential to life processes; and biological systems interact, and these systems and their interactions possess complex properties

AP CALCULUS 12 AB

A.P. Calculus is a university level calculus course. This course is intended for students who are concurrently taking, or have completed, Mathematics 12. Topics include differentiation, integration and their applications. The pre-requisite is Pre-Calculus 11 and the student must either have already completed Pre-Calculus 12 or be taking it concurrently.

AP CHEMISTRY 12

The AP Chemistry course provides students with a foundation to support future advanced course work in chemistry. Through inquiry based learning, students develop critical thinking and reasoning skills. Students cultivate their understanding of chemistry and science practices as they explore topics such as: atomic structure, intermolecular forces and bonding, chemical reactions, kinetics, thermodynamics, and equilibrium.

AP ENGLISH LITERATURE & COMPOSITION 12

The AP English Literature and Composition course aligns to an introductory college-level literary analysis course. The course engages students in the close reading and critical analysis of imaginative literature to deepen their understanding of the ways writers use language to provide both meaning and pleasure. As they read, students consider a work's structure, style, and themes, as well as its use of figurative language, imagery, symbolism, and tone. Writing assignments include expository, analytical, and argumentative essays that require students to analyze and interpret literary works.

AP ENVIRONMENTAL SCIENCE 12

The AP Environmental Science course is designed to be the equivalent of a one semester introductory college course in environmental science. Topics include earth systems and resources, the living world, population, land and water use, energy resources and consumption, pollution and global change. *Completion of Chemistry 11 and Biology 11 is highly recommended.*

AP FRENCH LANGUAGE & CULTURE 12

This course, open only to French Immersion students, strives to develop a superior level of skills emphasizing the use of the language for communication in a variety of contexts. Students will increase their vocabulary through reading magazines, newspapers, literary works and other nontechnical articles. This course will emphasize oral presentations, development of listening skills and a further appreciation of culture.

AP MICROECONOMICS 12

The purpose of the AP course in microeconomics is to give students a thorough understanding of the principles of economics that apply to the functions of individual decision makers, both consumers and producers, within the economic system. It places primary emphasis on the nature and functions of product markets and includes the study of factor markets and of the role of government in promoting greater efficiency and equity in the economy.

AP PHYSICS 12

This course is an algebra-based, introductory college-level physics course that explores topics such as Newtonian mechanics (including rotational motion); work, energy, and power; mechanical waves and sound; and introductory, simple circuits. Through inquiry based learning, students will develop scientific critical thinking and reasoning skills

AP PSYCHOLOGY 12

The AP Psychology course is designed to introduce students to the systematic and scientific study of behaviour and mental processes of human beings and other animals. This course is recommended for those students who have an interest in a comprehensive study of the breadth and depth of Psychology and may wish to pursue it further at a post-secondary institution. This course focuses on developing student skills that will help them succeed in a post-secondary setting. This will include: critical thinking, essay writing, research and experimental methods, academic reading, and oral presentation skills.

AP STATISTICS 12

In colleges and universities, a large number of students take a statistics course. Courses similar to AP. Statistics are required for study in such fields as business, the social sciences, and health sciences. Knowledge of statistics is required for students intending to do research. A.P. Statistics introduces students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data.

FRENCH IMMERSION PROGRAM

École Alpha Secondary is one of the three schools in Burnaby that offer Secondary French Immersion. This program is a continuation of either Early French Immersion or Late French Immersion. In grades 8, 9 and 10 students will take 4 courses in French. Grade 11 they will take 2 courses in French and in grade 12 they will take 1 course in French, and AP French should they choose. By the end of grade 12, they will have completed their requirements for the Double Dogwood Diploma.



SCIENCES HUMAINES 8

Sciences Humaines course parallels *Social Studies 8*.

Students will explore the rise and fall of several major civilizations while developing their understanding of the diverse world of cultures that surround us. Focus will be on how cultures interacted with one another, and how contact often led to conflict. Themes such as exploration, expansion, and colonization will be used to address political, social and cultural change. Students will also look at how the relationship between humans and the environment helped shaped society. Students will develop their skills at assessing documents (writings, drawings, records) for bias in order to understand history as more than a collection of facts, critical and creative thinking to compare and contrast aspects of the cultures being studied.



MATHÉMATIQUES 8 HONOURS

Mathematics 8 Honours is designed for students who are interested in and capable of pursuing a more challenging course of study. The aim of the course is to provide students with the opportunity to develop the knowledge, skills, and attitudes necessary to be numerate. Students will learn to reason logically, employ quantitative and spatial information, and apply a variety of mathematical methods to solve problems. The focus will be on the conceptual understanding of numeracy concretely, pictorially and symbolically. The course has the same learning outcomes and textbook as Mathematics 8, but contains a significant enrichment component.

Most times, Honours students will receive different assignments from students enrolled in Mathematics 8. The Honours assignments will sometimes have fewer questions, and sometimes include questions that are either at a higher level, or consist of questioning that extend the concepts beyond the basic assignment. Honours students may also be challenged by in-depth study of some concepts beyond that required by the prescribed curriculum, such as those brought in mathematics contests and regional contests. There will be

occasions when Honours students will have the opportunity to meet and work together in mathematics study with guest lecturers from either Simon Fraser University or the University of British Columbia.

Honours students explore non-routine problems, present the solutions to the problems, and participate in Mathematics Contests. Honours students' marks will reflect their understanding of the prescribed learning outcomes for their mathematics course. It is expected that they will maintain high levels of achievement in all their endeavours.

MATHEMATIQUES 8

Mathématiques 8 parallels Math 8 (in English). In addition, the French Immersion teachers will provide second language acquisition strategies to promote learning.

The Grade 8 Mathematics course builds upon skills developed in previous grades. Topics in the course include the study of Numbers, Patterns & Relations, Shape & Space, and Statistics & Probability. This course aims to provide students with the opportunity to develop the knowledge, skills, and attitudes necessary to be numerate. The focus of the standard Mathematics 8 curriculum is on the conceptual understanding of numeracy concretely, pictorially and symbolically. Throughout the year students will be completing many individual assignments/activities, as well as working with partners/ groups. Students will be using math manipulatives such as fraction tiles to help them learn concepts and demonstrates their understanding. They will be drawing representations and writing about concepts.

An individual student's assessment of performance will underscore the student's understanding of the prescribed learning outcomes. It is expected that students will maintain high levels of achievement in all their endeavours.

SCIENCES NATURELLES 8

Sciences Naturelles 8, parallels Science 8 (in English). In addition, the French Immersion teachers will provide second language acquisition strategies to promote learning.

Science 8 focuses on cells, kinetic molecular theory, energy transfer and plate tectonics. Students complete a variety of inquiry based activities and work to connect their learning to real world applications.

FRANÇAIS LANGUE SECONDE 8-11

Français Langue Seconde courses offer a progressive development of linguistic skills: speaking, listening, reading and writing. Students will have opportunity to be creative and exercise their critical thinking and communication skills through a variety of means. These skills are taught together with meta-cognitive strategies that will enable students to become stronger listeners, readers, writers and speakers. Students will learn techniques to enable them to communicate effectively and clearly when writing and speaking in French. Grammatical points will be reviewed and/or introduced as an integral part of the writing and speaking processes. Students also study and experience Francophone cultures around the world. It is to be noted that the oral/aural component of these courses is as important as the written one.

SCIENCES HUMAINES 9

Students will study conflict as an agent of change – rebellions, executions, revolutions and wars mark massive changes to Europe's political and social landscape. Investigation of documents of the time, historical maps and graphic information helps students' critical evaluation skills and brings this time period to life in classroom activities. In part 2 of the course, students look at the early contact between the existing First Nations and European migrants. A critical look at the impact of colonialism and the economic system of mercantilism will be followed up with a look at the early relationship we had with our rebellious American neighbours. Throughout the course tools of geographers will be used to depict our past and evolving world. In addition, the French Immersion teachers will provide second language acquisition strategies to promote learning.

MATHÉMATIQUES 9 HONOURS

This course has the same learning outcomes and texts as the standard Math 9 course but also include a significant enrichment component. Students explore non-routine problems and prepare to participate in Mathematics competitions.

MATHÉMATIQUES 9

This is the standard Mathematics course for entrance into all three of the senior mathematics pathways. The course includes the study of algebra, geometry and graphing, and an introduction to trigonometry. In addition, the French Immersion teachers will provide second language acquisition strategies to promote learning.

SCIENCES NATURELLES 9

New Science 9 curricular components focus on cell growth and reproduction, electron arrangement of the atom, current and static electricity, and energy flow in ecosystems. In addition, the French Immersion teachers will provide second language acquisition strategies to promote learning.

SCIENCES HUMAINES 10

Students focus on Canadian nation building: the rebellions, the marginalized groups of early Canadian society (women, First Nations, immigrants), political union, and the history of B.C. Continuing conflicts between First Nations and colonial Europeans arise as more contact is imposed by westward exploring and trading. Students learn to relate current issues facing all these same groups of Canadians today. Students will also be introduced to the Canadian economy and continue to learn about Canadian geography. Students continue use geographic tools in their analysis of historical events.

MATHS : FONDEMENTS ET PRÉ-CALCUL 10

This course is intended for students who wish to continue their education after graduation in the fields of Science, Engineering, Language Arts, Fine Arts and other courses offered at post-secondary degree and diploma granting institutions. The basis of this course is both theoretical and applied mathematics focussing on algebra, number systems, relations and functions, and measurement. In addition, the French Immersion teachers will provide second language acquisition strategies to promote learning.

SCIENCES NATURELLES 10

Science 10 has four major units: Biology: Genetics, Earth Science: Big Bang Theory and Cosmology. Physical Science: atomic theory, chemical reactions and radioactivity; Physics: velocity acceleration, direction and positioning. In addition, the French Immersion teachers will provide second language acquisition strategies to promote learning.

EDUCATION A LA VIE PROFESSIONNELLE 10

Career Life Education 10 is a French Immersion version of *Planning 10*, a four-credit course that must be completed in order to satisfy provincial graduation requirements. This is a required course for graduation. It is designed to help students develop the skills they need to establish goals and make thoughtful decisions in the following areas: education planning, career development, global economic decisions, healthy decision making and relationships. In addition, the students will have an opportunity to continue to develop and use their French language skills in meaningful real-life situations as well as explore ways in which their French skills can be used to further their post-secondary education and careers.

ART DRAMATIQUE 10

This class will give students the opportunity to express themselves creatively as well as develop their French skills in an authentic, organic setting. Students will continue to utilise their French skills while exploring the dramatic creative process. French Immersion students will be able to create dramatic works while using the essential French skills: reading, writing, speaking and listening.

This course is a creative dramatics course with an emphasis on personal and social development, concentration, trust and cooperation. We will study some of the basic techniques of improvisation and role-playing to create theatre. As well, we will cover the general rules of the stage, such as staging and blocking, voice, gestures and movement. We use a variety of techniques such as theatre games, improvisation, role-playing, storytelling, description, observation and critique. This course will cover the fundamentals of theatre, the elements of basic acting as well as preparing roles through simple character development. We will do some script work but mostly group and ensemble work.

SCIENCES HUMAINES 11

All French immersion students entering Grade 11 must take Sciences Humaines 11. This course is exactly the same as Social Studies 11, except that it is taught entirely in French. Immersion students need this course if they wish to receive full immersion credit upon graduation. For further course information, please see the Social Studies 11 course description in this booklet.

SCIENCES HUMAINES 11: Études Politiques

In this course, students will come to understand how political decisions are made is also critical to being an informed and engaged citizen. They will examine how political institutions and ideology shape both the exercise of power and the nature of political outcomes and how decision making in a democratic system of government is shaped by the unequal distribution of political and social power. Additionally, they will explore how international political agreements require compromises between countries with a wide range of values and priorities. Students will have the opportunity to learn strategies and skills that can help them become more efficient and skillful learners. Various readings, articles, videos and films will be used. Students will also employ inquiry based processes and skills to ask questions; gather, interpret, and analyze ideas; and communicate findings and decisions.

APPLIED DESIGN, SKILLS AND TECHNOLOGY

HOME ECONOMICS

“Teaching skills for LIFE”

ADST 8: FOOD STUDIES & TEXTILES

Home Economics: For the first 20-21 classes. Students will focus on Textiles Design. Students will learn hand-sewing skills and machine skills. They will complete 3 projects and have the opportunity to do a small scale personalized image on their apron and create and design their own pocket. Students will also learn the properties of fibres, the importance of colour and the appreciation of proportion and texture in the Fashion Industry. Upon completion of the Textiles Design component, students will then move into the Foods lab for the remaining 20-21 classes. Here, students will learn the basics of food safety and food preparation. Labs include: cookies, muffins, pizza, French toast, smoothies and quesadillas. Kitchen basics, the role of ingredients and nutrition will be introduced. Total time: ½ semester. For the remaining ½ semester, students will experience design, programming, robotics, woodworking, electronics and more...in the **Technology Education** (see course description in the Technology Education section)



ADST 9: FOOD STUDIES

Students will learn a variety of cooking methods and techniques to prepare tasty and nutritious meals. The major units of study include: baking, breakfast, lunch, and dinner. Students will explore topics such as safety and sanitation, nutrition, kitchen basics, the role of ingredients, and how food production impacts society.



ADST 9: TEXTILES

Students will construct simple garments, crafts, accessories and household items. Possible projects include: pyjamas, simple skirts/pants, t-shirts/shirts, bags and craft items such as knitting, macramé and crocheting. Students will explore and study career opportunities in the Textile and Fashion Industry, cultural influences on fashion and textile choice, basic sewing terminology, and fabric and fibre basics including production, characteristics and care.



FOODS & NUTRITION 10: International Foods Studies

Students will take a culinary journey around the world. We will globe trot from Canada to places such as Italy, Germany, China, Japan, Mexico, India, Greece, Kenya and Thailand. Join us as we prepare nutritious appetizers, soups, salads, sweets, and main dishes. Learn about world cuisine, factors influencing food choices, nutrition, balancing meals, and how what you eat affects you. Bring your appetite and sense of adventure to try new and delicious foods!



TEXTILES 10: TEXTILES DESIGN AND CRAFTING

Students will review basic techniques of garment construction and plan projects to include these new techniques. Possible projects include the use of both knits and woven fabrics. Construction techniques include: fly-front zipper pants, unlined jacket, lined skirt, shirts with a collar stand and cuff. Crafting projects will include up-cycling, stamping and imprinting. Students will also explore and study fashion, design and marketing. Their focus will be learning the Canadian Fashion Market and discovering what influences our designers. Discussions will include the environmental impact of the Textiles industry.

FOODS & NUTRITION 11: Year B

Students will further enhance their knowledge, skills, talents and techniques in Culinary Arts by preparing healthy, nutritious and appetizing items. Preservation techniques such as canning, dehydration, smoking, and salting will be covered. Labs will include flour mixtures, vegetarian options, lentils, salads, grains, pressure cooking, meats & alternatives, smoothies & beverages, and desserts. Course content will also focus on food marketing practices, environmental and health issues related to the production and consumption of food. Come and bring an open mind and an adventurous palate.

Note: Foods 11 Year A - → Food Safe Level 1 BC Certification --will be offered in 2019-2020

TEXTILES 11: TEXTILES DESIGN AND CRAFTING

Students will construct more advanced garments, crafts, accessories and household items. Possible projects include: lined jackets/coats, pants and skirts, evening wear, dresses, knits and craft items. Students will explore and study careers in the design, production and marketing of clothing and textiles, historical influences on fashion and textile choices and an advanced study of the properties, selection and care of natural and manufactured fibres and yarns, advanced fabric and sewing terminology and Canadian Fashion Designers. Discussions will include the ethical and economic issues in the Textiles industry.

FAMILY STUDIES 11: FAMILY LIFE AND RELATIONSHIPS

This course will cover the completion of 2 modules:

1. Child Development and Parenting- topics include decisions to be a parent, pregnancy and childbirth, infant care (1st year of life) and child care and development (years 1-12). Course content will also examine potential occupations and careers related to child development and parenting.
2. Adolescence-transition to the teen years, adolescent development, self-awareness, effective communication skills, issues and challenges in adolescence and how adolescence contribute to society.



FOODS & NUTRITION 12: Year B

Students will further enhance their knowledge, skills, talents and techniques in Culinary Arts by preparing healthy, nutritious and appetizing items. Preservation techniques such as canning, dehydration, smoking, and salting will be covered. Labs will include flour mixtures, vegetarian options, lentils, salads, grains, pressure cooking, meats & alternatives, smoothies & beverages, and desserts. Course content will also focus on food marketing practices, environmental and health issues related to the production and consumption of food. Come and bring an open mind and an adventurous palate.

Note: Foods 12 Year A- → Food Safe Level 1 BC Certification --will be offered in 2019-2020

BAKING 11/12

Baking 11/12 is a practical, hands-on course that enables a student to learn both beginning and advanced techniques in the area of Baking and Pastry. Emphasis on the course will include time management, creative expression, presentation and cost efficiencies. Labs will cover cookies, pastry, muffins, scones, cupcakes, squares, custards, mousse and more. Cake decorating included. ☺



TEXTILES 12: TEXTILES DESIGN AND CRAFTING

Challenging fabrics, challenging techniques and personal design will be emphasized in this course. Students will construct advanced textile items using challenging fabrics and patterns. Possible projects include tailored garments, evening and special occasion wear, personal design and swimwear. Students will explore and study International fashion designers, environmental and global issues in the clothing and textile industry, careers in the production and/or marketing of clothing and textiles, political influences on fashion and textile choices and an advanced fabric study including fibre identification, fabric qualities and the appropriate selection for various garments based on these characteristics.



FAMILY STUDIES 12: LIFE FAMILY AND CAREER DEVELOPMENT

This course will cover the completion of 2 modules:

1. Interpersonal and Family Relationships: topics include reasons and the importance of forming relationships, what is a committed relationship, changes in relationships, effective communication skills in interpersonal relationships, wellness and safety in relationships.
2. Housing and Living Environments: topics include the evolution of housing and the future trends, housing needs and changes as we age, how to establish independent living, the rights and responsibilities of renting, designing our living space, the elements of design, consumerism, house buying and major home purchases.

The course will also examine potential occupations and careers related to interpersonal relationships and careers in housing and design.

(Mentoring is a “way of being”....it’s about being a person that others feel comfortable talking to because they sense that you care, in a non-judgmental way)

PEER MENTORING 11

This course is offered “outside of the timetable”. Students will attain their hours by attending classes at 3:00 on Tuesday afternoons, planning and organizing Collab Wednesdays and supporting many events that are offered during the school year. Course content will cover the following skills: communications, organization, time management and presentation planning. Students will be offered the Red Cross “Beyond The Hurt” course to acquire their Youth Facilitator Certification. This course will entail two full days of training either during the end of June or the end of August.

PEER MENTORING 12

This course is offered “outside of the timetable”. Students in Peer Mentoring 11 will be combined with students in Peer Mentoring 12. Students will also attain their hours by attending classes at 3:00 on Tuesday afternoons, planning and organizing Collab Wednesdays and supporting many events that are offered during the school year. Course content will cover the following skills: communications, organization, time management and presentation planning. Additional topics will include: team building, learning styles, leadership and building your resume for the future. Students will be offered the Red Cross “Beyond The Hurt” course to acquire their Youth Facilitator Certification. This course will entail two full days of training either during the end of June or the end of August.

TECHNOLOGY EDUCATION

ADST 8: TECHNOLOGY EDUCATION

This is a half a semester course which provides the opportunity to learn the safe uses of a variety of hand and machine tools. The course will also cover the processes involved in working with a number of different materials such as wood, plastics, metals, fabrics, etc. In addition, students will build functional electronic components, use computers in the design process and design their own solutions to a variety of technological problems.

ADST 9: DRAFTING & DESIGN

(Technical Design) Students will explore basic drafting that will demonstrate architectural, mechanical and computer aided design (CAD) and model construction.



ADST 9: ELECTRONICS

This course covers basic electronic concepts, including circuits, schematics, electronic test equipment and measurement. Students will construct electronic projects such as strobe lights, electronic games, toys, alarms, timers, motion detectors and amplifiers. Additional costs may be incurred for program options.

ADST 9: WOODWORKING

This course develops a basic knowledge of many aspects of woodworking including design, joinery and finishing. Workplace health and safety will be emphasized. Additional costs may be incurred if students choose to purchase their own wood for individualized projects.

DRAFTING & DESIGN 10

During this introductory year, students will explore how to create basic drawings on the computer using the Vectorworks application programs. Some hand drawings will be required. The curriculum is designed to provide learning opportunities for male and female students with a wide range of abilities. Areas covered are basic shapes, orthographic projection, dimensioning and pictorial views. Students will be given designing and construction problems in these areas. They will be required to work cooperatively and to communicate their ideas to others.

ELECTRONICS 10

This course covers basic electronic concepts in both analog and digital circuits. Students will construct a variety of project designs and will be encouraged to apply circuit design to a chosen application. An introduction to programming micro-controllers and robots using Easy ‘C’ and other programming languages are included. Students will also learn the standards and conventions of electronic engineering and learn acceptable attitudes and ethics required in industry.

WOODWORKING 10

This course provides the opportunity to learn the safe uses of a wide variety of hand and machine woodworking tools. It will also cover some basic knowledge of wood and wood products as well as basic finishing techniques. Students will complete at least three projects during the year. Two will be assigned and one (or more) will be of the student's choice, if appropriate to the course level. Areas covered are: machine tools (stationary and portable), hand tools, project organization and procedures, recognition and characteristics of common wood and wood products (plywood, particle board, etc.), joinery techniques and furniture construction methods, abrasives, fasteners, gluing, clamping and assembly methods.

ROBOTICS, MECHATRONICS & ENGINEERING 10

This course introduces students to the design and construction of robots using the VEX Robotics and Arduino platforms. This course applies science, technology, engineering and math (STEM) and is largely project based. The course will focus on concepts such as torque, gearing and leverage, which are taught throughout. Students will learn about various input methods (analog vs digital), explore the uses of various sensors, and incorporate them into their designs. The annual game for the VEX Robotics competitions drives the design component of this course. Students receive a basic introduction to computer programming (EasyC, as well as Arduino IDE, both C derivatives), and students will have various opportunities to work individually and in groups.

DRAFTING & DESIGN 11

The Drafting and Design curriculum provides students with challenging opportunities to develop their skills through a practical, hands-on learning environment using project-based activities. During this senior year, students will explore how to create basic drawings on the computer using the Vectorworks application programs. Some hand drawings will be required. Areas covered are basic shapes, orthographic projection, dimensioning, pictorial views, developments, sections, architectural, and mechanical drawings. Students will be given designing and construction problems in these areas. Students will be required to work cooperatively and to communicate their ideas to others. The curriculum is designed to provide learning opportunities for male and female students with a wide range of abilities. This course is a pre-requisite to Drafting and Design 12.

ELECTRONICS 11

The first component of this course will focus on the design and function of analog circuits and their application in projects such as amplifiers, power supplies, and frequency filters. Projects will be designed and built using this technology.

CARPENTRY & JOINERY 11

This course provides the opportunity to learn the safe uses of a wide variety of hand and machine woodworking tools. It will also cover some basic knowledge of wood and wood products as well as basic finishing techniques. Students will be expected to finish the following required projects: a bedside table, secret box, curved box, and lamp table with drawer. Once the assigned projects are finished, students may build a project of their choice if it falls within their skill level. Areas covered are: machine tools (stationary and portable), hand tools, measuring and layout tools, project organization and procedures, recognition and characteristics of common wood and engineered wood products (plywood, particle board, etc.), joinery techniques and furniture construction methods, abrasives, fasteners, gluing, clamping and assembly methods.

ROBOTICS, MECHATRONICS & ENGINEERING 11

This course sees an expansion of topics from Robotics 10, with the use of sensory feedback systems considerably more incorporated into their robot designs and computer programming. Students also have the opportunity to learn a new, more versatile programming language, RobotC. They also receive a basic introduction to computer aided drafting/design and prototyping software. Students have various opportunities to work individually and in groups. The VEX annual competition will drive the design component of the course, with a heavy focus on creating efficient, autonomous robots.

DRAFTING & DESIGN 12

The Drafting and Design curriculum provides students with challenging opportunities to develop their ability at a higher level through a practical, hands-on learning environment using project-based activities. During this senior year students will explore how to create basic drawings on the computer using the Vectorworks application programs. Some hand drawings will be required. Areas covered are basic shapes, orthographic projection, dimensioning, pictorial views, developments, sections, auxiliary views, architectural, site plans and mechanical drawings. Students will build on the concepts learned in Drafting 11 and apply these design principles and processes to more advanced situations. Those students that enjoyed Drafting in a previous year can continue working on more challenging activities. Students will continue with computer work, drawing shapes and designing work.

ELECTRONICS 12

The second component of Electronics will focus on a variety of digital electronic concepts, such as logic gates, memory, and counters. Projects will be designed and built using this technology. Employment opportunities in this field will be presented, as well as post-secondary options.

CARPENTRY & JOINERY 12

This course provides the opportunity to learn the safe uses of a wide variety of hand and machine woodworking tools. It is expected that students will produce the following projects: coffee table, Tambour door bread box, and a medicine cabinet. These projects will form the basis upon which student learning will be assessed. The comprehensive nature of the projects will allow students to experience a sense of accomplishment and to demonstrate skills acquired in relation to a range of learning objectives. Areas covered are: machine tools (stationary and portable), measuring and layout tools, project organization and procedures, recognition and characteristics of common wood and engineered wood products (plywood, particle board, etc.), joinery techniques and furniture construction methods, stile and rail door construction, hardware, fasteners (including European style) and adhesives.

CARPENTRY & JOINERY 12: FURNITURE

In this course, students will produce at a minimum an Adirondack chair, and a bathroom cabinet. These projects will form the basis upon which student learning will be assessed. The comprehensive nature of the project will allow the student to experience a sense of accomplishment and to demonstrate skills acquired in relation to a range of learning objectives. Areas covered are: project organization and procedures, recognition and characteristics of common wood and engineered wood products (plywood, particle board, etc.), face frame and flush face cabinet construction, dovetail and mortise and tendon joints, form and function considerations in furniture design, and various edge to edge joins including biscuits, spines and dowels.

ROBOTICS, MECHATRONICS & ENGINEERING 12

This course has students honing their programming skills in the language RobotC and EasyC, while incorporating more advanced programming techniques and structures into their programs. They also learn to use the prototyping programs such as SketchUP, Inventor and QCAD as a design tool, to construct 3D virtual models of their designs before physical construction. Students have various opportunities to work individually and in groups. The annual VEX competition will provide a starting point for student designs. Students will develop an independent directed study style research and development project which will be documented in a design portfolio.

SKILLS EXPLORATION 10-12: CARPENTRY, METALWORK, ELECTRICAL/ PLUMBING

This course provides the opportunity to learn the safe uses of a wide variety of hand and machine tools. It is expected that students will produce the following projects: wall framing including window and door, small dog house, metal puzzles, jewellery, a small metal manufacturing project of choice and several other skill builder tasks. These projects will form the basis upon which student learning will be assessed. The comprehensive nature of the projects will allow students to experience a sense of accomplishment and to demonstrate skills acquired in relation to a range of learning objectives. Areas covered are: machine tools (stationary and portable), measuring and layout tools, project organization and procedures, recognition and characteristics of common wood, metal, and engineered wood products (plywood, particle board, etc.), joinery techniques, soldering and plumbing skills and basic electrical skills. The Skills Exploration 10-12 course provides students with learning experiences that involve the knowledge, skills, and attitudes in a number of trades or technology areas. This course may be particularly useful for students considering, but not sure about, a trades career or further trades training, including SSA and ACE IT.

BUSINESS EDUCATION

ENTREPRENEURSHIP & MARKETING, COMPUTERS & DIGITAL LITERACY 8

This full-semester course allows students to experience, explore and develop the exciting topics of entrepreneurship and marketing, computers, and digital literacy. Students will display their creativity by constructing a business plan for a product that they will prototype, test, make and share. Students will develop computer skills that will benefit them throughout high school, including, Word, PowerPoint, Excel, introduction to computer coding, and keyboarding techniques. Additionally, students will examine the critical topics of Internet safety (cyberbullying), digital self-image, and research techniques.

ADST 9: MARKETING & ENTREPRENEURSHIP

Are you the next Steve Jobs? Do you like hands-on projects? In this course students will have the opportunity to develop and display their entrepreneurial and marketing skills by participating in a school-wide business venture. In the creation of this venture students will:

- Evaluate the risks and benefits of entrepreneurship
- Develop marketing strategies
- Understand consumer needs and wants
- Utilize computer technologies
- Reflect on financial performance and overall business success
- Work effectively both as individuals and collaboratively in a group



ENTREPRENEURSHIP AND MARKETING 10

In this course students will have the opportunity to realize and develop their entrepreneurial skills, by creating their own product/idea. Students will:

- Experience what it's like to be an entrepreneur; whether they are inventing an idea/product from scratch or adding value to an existing idea/product.
- Explore barriers that various groups of entrepreneurs face and the factors that can contribute to their success.

COMPUTER STUDIES 10: NETWORKING, SECURITY AND PROGRAMMING

Computer-literacy is a necessary skill for success in today's digital world. This course allows for students to explore and develop their understanding of computers and build a foundation of digital literacy skills.

Students will:

- Learn how to manage a computer by studying its hardware components, operating system, software selection, networking, and security.
- Learn basic algorithms used in processes for problem solving, an essential first step in writing computer programs.

DIGITAL COMMUNICATIONS 11: BUSINESS

In this course students will develop transferable skills that they will use in high school, post-secondary, and career pursuits. Students will learn how to use digital communication effectively in a variety of environments.

Students will explore:

- Communication using digital tools- word processing, social media, and blogs
- Impact of social media and language- text based, instant messaging, emojis and memes
- Risks, ethics and legalities in digital communication
- Persuasive writing and critical evaluation of resources
- How to maintain a positive public (professional) profile

ACCOUNTING 11

Accounting 11 is a valuable course that will benefit students in learning how to manage and account for their personal finances. This introductory course is fundamental for any student wanting to pursue business after graduation. In Accounting 11 students will explore:

- The role of accounting in business
- Accounting principles and practice
- Accounting equation, debit and credit, accounting cycle
- Preparation process of financial documents
- Financial decision making
- Explore the variety of career paths in accounting, and hear from guest speakers

ACCOUNTING 12

In Accounting 12 students will build upon the concepts developed in Accounting 11 (although it is not a prerequisite). Topics include:

- Using real business case studies to read and analyze financial statements
- Increasing your opportunity to work in banks and accounting firms
- Financial reporting for different types of businesses
- Inventory systems
- Internal controls to protect assets and ensure accuracy

MARKETING AND PROMOTION 11

In this course students will have the opportunity to create and participate in a real business. Potential business ideas include; food items, Alpha clothing and merchandise, promotion of school events/performances, and more! This is a fun, collaborative, hands-on course that will allow students to see what marketing is all about.

Course topics include:

- Create marketing and promotion strategies to persuade consumers to purchase
- Learn how to build and maintain both an online and physical store
- Target market and segmentation
- Evaluate existing company marketing strategies/campaigns
- Design different forms of advertising, including print ads & commercials
- Understand the risks associated with marketing a product: environmental, financial, and emotional

E-COMMERCE 12: MARKETING

This course introduces students to owning and operating an e-commerce business, while applying marketing fundamentals. Students will gain valuable future employability skills such as managing staff, communication and leadership, marketing goods and services, developing and implementing new and innovative ideas. Some of the main activities/topics include:

- Conduct market research and evaluate existing local and global competition
- Design and implement inventory, marketing, accounting, and personnel plans
- Gain hands-on experience with the evolution and nature of e-commerce
- Learn cyber-marketing strategies to direct traffic to websites
- Explore distribution channels for a digital business
- Create advertisements for print, radio, television and e-commerce

TOURISM 12

This is an excellent course for students who are interested in event planning, hospitality, and tourism. Course topics include:

- Explore the evolving sectors of the tourism industry in a changing marketplace
- Visit some of the main tourist attractions in the lower mainland
- Examine Aboriginal tourism and the local/provincial market and economy
- Plan an itinerary for both a Canadian and International destination
- Explore adventure tourism and outdoor recreation in BC
- Research jobs available in the tourism industry
- Develop marketing strategies
- Develop techniques for communicating and interacting with diverse individuals and groups

COMPUTER PROGRAMMING 11

Coding is becoming one of the most important skills for 21st century job seekers. In this introductory programming course, students will explore different types of computer languages. Students will:

- Learn to code in JavaScript, HTML, and CSS to build their own interactive webpages.
- Learn to code in Python, a widely used programming language in web development and app building, to create their own programs.

This course does not require a prerequisite and is suitable for both beginner and intermediate computer users.

COMPUTER PROGRAMMING 12

This course introduces students to Java, one of the most popular programming languages today. Students will:

- Learn how to analyze and solve problems using the principles of effective programming practices.
- Participate in inquiry based learning, in which they identify a problem or a need and develop solutions.
- Develop their own programs and create games.
- Computer Programming 11 is a recommended prerequisite for this course.

ICT: DIGITAL MEDIA DEVELOPMENT 12

This course provides practical, hands-on experience that encourages students to pursue the technical side of digital media development. Students will be able to create multimedia rich projects including 2D, 3D, audio, and video graphics. The theme in this course will be storytelling and will focus on the communication aspect of computer technology. Students will:

- Create and edit digital videos and animations
- Record and edit sound and music
- Write and produce their own movie
- Collaborate with other courses to develop promotional materials

LEADERSHIP COURSES

LEADERSHIP 9/10

This course is designed for students interested in developing leadership and team building skills. Students will receive instruction in areas such as group process, communication skills, organization skills, problem solving and decision making. Students will apply what they have learned by organizing, implementing and evaluating student-oriented activities.



LEADERSHIP 11/12

This course will focus on a comparison of leadership styles through group activities and event planning with the school in the community. Emphasis will be on improving and developing decision-making skills, communication and organizational skills. The class will be responsible for the planning and implementation of school activities related to school culture, school spirit and community service as well as mentoring younger students.

FIRST AID 11/12

This course is geared toward promoting and learning first aid techniques and providing a first aid service for the school. Components of the program include belonging to St. John Ambulance Division, participating in a 20-hour course and receiving a standard certificate. Students will be expected to attend a class session outside of the regular timetable as well as being available during class time for first aid response.

COMMUNICATION & LEARNING MANAGEMENT 11

This leadership course provides self-motivated students with an opportunity to learn and develop the interpersonal skills required to work as a modern administrative assistant. Individuals should be organized, reliable, and efficient. The knowledge you gain here will provide you with a foundation for entry into a wide variety of office careers.

PEER TUTORING 11/12

The Peer Tutoring Program is an integral component of the supportive learning services provided at Alpha Secondary School. This course prepares and motivates students to provide assistance to individuals with a variety of academic needs. Peer tutors are matched with a student or group of students to facilitate academic support. Students will develop social responsibility while acquiring skills in communication and interpersonal relations. This course is suitable for mature, responsible students who are interested in working with students with various learning needs.

PEER MENTORING 11/12

Students in Alpha's peer mentoring program will learn skills in working with other students through guided instruction as well as through application of skill development. Peer mentors will work with new students to Alpha; particularly in mentorship with grade 8 students. Further, peer mentors will be assigned to students within a classroom during collaboration sessions where they will interact with younger students in a leadership role.

APPLICATIONS OF LEADERSHIP 11/12: MUSIC

This course is for the mature, dedicated music student who wishes to expand their own leadership skills while working with younger musicians to improve their instrumental, vocal, and music composition abilities. Students must get permission from their music teacher before registering for this class, and they *must* be registered in at least one other music course.

ENGLISH LANGUAGE LEARNING

ELL LEVEL 1: LANGUAGE & LITERACY

Students will develop basic skills in reading, writing, listening and speaking through conversation, classroom expression, and with words and structures needed for communication. Initially students focus on familiar, concrete themes and connections to family and communities. This is a non-credit course.



ELL LEVEL 1: CULTURAL STUDIES

Cultural Studies explores the interaction of students and their communities. Students focus on familiar, concrete environments of family and communities. Emphasis is placed on scaffolding language to support critical thinking. Exploration of current events plays a key role in connecting immigrant students to their community. This is a non-credit course.

ELL LEVEL 1: SCIENCE APPLICATIONS

Students focus on topics that are concrete and familiar. Emphasis is placed on scaffolding language to support critical thinking. The major streams of life science, physical science, earth and space science are explored through essential questions: What is science? What is life and how is it sustained? What is energy and how is it transferred? What is matter and how does it behave? How are landforms created and how do they change? What is Earth's relationship to the universe? This is a non-credit course.

ELL LEVEL 1: TECHNICAL & APPLIED LANGUAGE

This course supports students in their curricular areas through the acquisition of the cultural and linguistic knowledge. Teachers use real life materials and situations to provide adequate context for students. Students will understand text features, comprehend basic content vocabulary, make predictions from text, and use words and phrases in social routines.

ELL LEVEL 2: LANGUAGE & LITERACY

As students' linguistic abilities increase, topics extend to more abstract concepts that apply in both local and global communities. Emphasis is placed on scaffolding language to support critical thinking. A wide range of literary and factual genres including short stories, novels, poems and plays, biographies and expository writing are included to develop an understanding of how authors use language to communicate effectively with their intended audience. This is a non-credit course.

ELL LEVEL 2: CULTURAL STUDIES

Topics in level 2 cultural studies extend to less familiar national and international communities. The major themes of society, politics and law, economy and technology and environment are explored through essential questions: What makes a good citizen? How does physical location affect what you can and cannot do? How do we get power? What is culture? This is a non-credit course.

ELL LEVEL 2: SCIENCE APPLICATIONS

The purpose of level 2 science applications is to support literacy development for ELL students enrolled in regular science courses. Emphasis is placed on the development of all four language strands—listening, speaking, reading and writing. Teachers introduce or reinforce a literacy strategy or skill to inform practice and application to content. This is a non-credit course.

ENGLISH 10: LANGUAGE ADAPTED

While continuing to develop their proficiency in English, students will work towards meeting the outcomes of the English 10 curriculum. Students will develop a large vocabulary with which to express their ideas effectively and will be expected to write about and discuss literature in an increasingly critical and sophisticated manner.

SOCIALS 10: LANGUAGE ADAPTED

While developing their proficiency in English, this course acquaints students with Canadian geography, history, government, law, culture, customs and current events. In addition, it allows students to explore Canada's role in the global community. A wide range of strategies will be used to teach students how to access, comprehend and process information and communicate their understanding through writing and oral presentations.

ENGLISH 8

Students will study short stories, poetry, novel(s), drama, and essays. Assignments will require that students write in a variety of formats and for a variety of purposes, and study skills will be addressed. Coherent paragraph development will also be emphasized.

ENGLISH 9

English 9 will provide students with a wide range of reading experiences. Students will study short stories, poetry, novel(s), drama, and essays. Assignments will require that students write in a variety of formats and for a variety of purposes. Coherent essay development will also be emphasized.

ENGLISH 9: ENRICHED

This course is for the student who is interested in probing more deeply into Language and Literature. This course is particularly helpful if you wish to remain in the Enrichment stream during English 10, 11, or 12. While the skills (reading, writing, speaking, listening, presenting, working in groups, etc.) and the genres (stories, drama, poetry, novels, media education) are the same as the regular English 9 course, the literature studied is more challenging, as are some of the assignments. The criteria for grading are also the same as for the regular course.

All Grade 10 students will take:**FOCUSED LITERARY STUDIES 10 (2 credits)**

This course is designed for students who are interested in the literature of a particular era, geographical area, or theme, or in the study of literature in general. The course allows students to delve more deeply into literature as they explore specific themes, periods, authors, or areas of the world through literary works in a variety of media.

Giving students the choice of a range of literary topics allows them to follow their passion and at the same time:

- increase their literacy skills through close reading of appropriately challenging texts
- enhance their development of the English Language Arts curricular competencies, both expressive and receptive
- expand their development as educated global citizens
- develop balance and broaden their understanding of themselves and the world
- develop higher-level thinking and learning skills.

This two-credit course is designed to provide an introduction to Focused Literary Studies 11 (four credits). The following are possible areas of focus in Focused Literary Studies 10:

- genre-specific studies — poetry, short stories, novels, drama, graphic novels, children’s literature
- Canadian literature • First Peoples texts • thematic studies • specific author studies

In addition to FOCUSED LITERARY STUDIES 10, students will choose ONE of the following options:

NEW MEDIA: LAB 10 (2 credits)

The New Media Lab is a hands-on, real-world exploration of media in the online age. We run an actual media website, producing engaging content for a general audience. We learn vital skills for the fast-paced digital world.

Highlights:

- Studying and imitating actual media websites online

- Self-selected topics including sports, gaming, beauty, music, style, technology etc. in a writing workshop to produce high quality work for publication
- Selecting work roles within our organization including
- Social media strategy
- Graphic design and illustration
- Editorial leadership
- Using blogging and wiki sites
- Keeping up-to-date on topics of current interest

NEW MEDIA: LITERATURE & FILM 10 (2 credits)

This course will combine the traditional study of literature with a relatively new art form: film. Students will be introduced to texts, both literary and visual, from a variety of genres, time periods, styles, and writers/directors. As movies are visual narratives, students will learn to consider, interpret, and discuss film as they would a short story, novel, play or poem. Like all English Language Arts courses, this class will help to develop reading/viewing comprehension and communication skills.

SPOKEN LANGUAGE: THE POWER OF VOICE 10 (2 credits)

Students will individually and collaboratively study, create and use language to produce original pieces in a variety of ways to explore how “Voice is powerful and Evocative”. The course will be taught in a Socratic seminar format

Highlights:

- Oral story telling in an Audio Book
- Becoming the Teacher
- T.E.D. talks (Alpha talks)
- Poetry Café or Poetry Slam
- Reader’s Theatre Production

This course may be of particular interest to:

- students with strong verbal communication skills
- ELL students who want to develop their oral language skills
- students going into professions in which presentation skills are an asset
- students who may wish to help maintain oral traditions

COMPOSITION 10 (2 credits)

This course will provide students with opportunities to think critically as they explore, extend, and refine their writing. Students will develop their craft through processes of drafting, reflecting, and revising to build a body of work that demonstrates breadth, depth, and evidence of writing for a range of situations.

Highlights:

- Note-taking strategies
- Effective use of quotation, paraphrase and summary
- Paragraph and essay structure

The following are possible areas of focus within Composition 10:

- narrative, expository, descriptive, persuasive, and opinion pieces
- planning, drafting, and editing processes
- writing for specific audiences and specific disciplines
- learning how to cite sources, consider the credibility of evidence, and evaluate the quality and reliability of the source

CREATIVE WRITING 10 (2 credits)

In creative writing, students will sharpen their skills as literary artists. Through the study of key texts in specific genres, students will explore universal topics including love, death, and technology's impact on humanity.

Highlights:

- "The year was 2081, and everybody was finally equal": Science Fiction Short Stories, Technology and the Modern World
- "dying is fine)but Death": Poetry and Death
- "Did my heart love till now?": Love, War and Script Writing

Creative Writing 10 is designed for students who have an interest in creative expression through language. The course provides students with in-depth opportunities to become better writers through the exploration of personal and cultural identities, memories, and stories in a wide range of genres. Within a supportive community of writers, students will collaborate and develop their skills through writing and design processes. This course is intentionally grounded in the exploration and application of writing processes, inviting students to express themselves creatively as they experiment with, reflect on, extend, and refine their writing.

The following are possible areas of focus within Creative Writing 10:

- contemporary creative forms such as slam poetry, oratory, rap, drama, song, graphic novels
- creative non-fiction, historical fiction
- poetry, song lyrics
- multimodal creative forms that combine visual, written, and oral texts

ENGLISH ENRICHMENT SEMINAR 10

This course was formerly known as English 10 Honours. Students in Enrichment 10 Seminar will work in a collaborative environment. Their learning and summative assessments will be individually focused according to their choice of one the following four English Language Arts strands: Composition, Creative Writing, New Media or Spoken Language. Students will need to determine their focus by mid-September.

Enrichment Seminar 10 provides a setting for students to:

- Develop their experience and appreciation of literature through close reading of texts
- Develop their ability to think critically and independently
- Expand their development as educated global citizens
- Develop their ability to write with clarity, style, and purpose

NEW MEDIA: LAB 11/12

The New Media Lab is a hands-on, real-world exploration of media in the online age. We run an actual media website, producing engaging content for a general audience. We learn vital skills for the fast-paced digital world.

Highlights:

- Studying and imitating actual media websites online
- Self-selected topics including sports, gaming, beauty, music, style, technology etc. in a writing workshop to produce high quality work for publication
- Selecting work roles within our organization including
- Social media strategy
- Graphic design and illustration
- Editorial leadership
- Using blogging and wiki sites
- Keeping up-to-date on topics of current interest

NEW MEDIA: LITERATURE & FILM 11/12

Film is a young but undeniably spectacular and popular storytelling tool. Good films, like all good stories, give us the ability to transcend time and place and explore different worlds and points of view. Visual literacy is an essential characteristic of today's educated citizen. In this course, students will study film in conjunction with literary texts to hone their critical thinking and analytical skills and develop their ability to express themselves with words and images. Students will be introduced to films and texts from a variety of genres, time periods, styles and writers/directors. The course will move thematically and consider BIG QUESTIONS like

- Why do good people do bad things?
- What are the sources of lasting human happiness?
- What are the benefits and pitfalls of having dreams?
- How has the use of technology impacted human life?
- What is a utopia? Is a utopian society possible? Is it desirable?

SPOKEN LANGUAGE: THE POWER OF VOICE 11/12

Students will individually and collaboratively study, create and use language to produce original pieces in a variety of ways to explore how "Voice is powerful and Evocative." This course will be taught in a Socratic seminar format.

Highlights:

- Oral story telling in an Audio Book
- Becoming the Teacher
- T.E.D. talks (Alpha talks)
- Poetry Café or Poetry Slam
- Reader's Theatre Production

COMPOSITION 11

This course provides grade 11 students with opportunities to think critically as they explore, extend, and refine their writing skills. Students will develop their writing through processes of drafting, reflecting, and revising to build a body of work that demonstrates breadth, depth, and evidence of writing for a range of situations.

Highlights:

- Non-Fiction writing for a variety of purposes: compare/contrast, persuasion, expository/argumentative, process analysis, cause and effect, etc.
- Academic reading strategies

CREATIVE WRITING 11/12

The course provides students with in-depth opportunities to become better creative writers through the exploration of personal and cultural identities, memories, and stories in a wide range of genres.

Students will collaborate and develop their skills through writing and design processes, inviting students to express themselves creatively as they experiment with and refine their writing.

Highlights:

- Journaling
- Memoir
- Short stories
- Poetry
- Script writing

LITERARY STUDIES: ENGLISH 11 ENRICHED

This course is for lovers of literature and for students in the enriched English stream. It offers students the opportunity to read inside the “Western Canon,” that is some of the most beautiful, witty, wise, and insightful texts written in English over the past 2000 years. In this course, literary texts are studied both as works of art for close reading and as reflections of social, political, and historical forces. Therefore, students will develop a sense of literature’s breadth and expansion over time, as well as an understanding of how literature both reflects and shapes culture. Reading widely is an important factor for an educated mind, and by reading works that are sophisticated in thought and style, students will strengthen their aesthetic appreciation and critical judgement. Students who wish to challenge themselves in the enrichment stream will take this course in their Grade 11 year in order to prepare them for English 12 Honours or AP English Literature and Composition 12. The learning standards and levels of assessment for this course are the same as for a regular English 11 course.

FILM STUDIES 11

NOTE: This is an elective course and would be taken in addition to one of the above mentioned English 11 course options.

Film Studies 11 is for students who wish to learn more about the art of film. In this introduction to visual storytelling, students will explore a variety of film genres and styles. As movies are visual narratives, they can be “read” or interpreted like a novel or poem. When analyzing and discussing movies, students will consider how filmmakers use techniques like lighting, framing, editing, and sound to create meaning and convey theme. Film 11 seeks to help students develop an appreciation for film and artistic expression, hone analytical and critical thinking skills, and develop powers of expression in both written, visual, and oral form.

ENGLISH LITERATURE 12

NOTE: This is an elective course and would be taken in addition to one of the following English 12 courses.

This course is for lovers of literature. It offers students the opportunity to read inside the “Western Canon,” that is some of the most beautiful, witty, wise, and insightful texts written in English over the past 2000 years. In this course, literary texts are studied both as works of art for close reading and as reflections of social, political, and historical forces. Therefore, students will develop a sense of literature’s breadth and expansion over time, as well as an understanding of how literature both reflects and shapes culture.

ACADEMIC READING AND WRITING 12

NOTE: This is an elective course and would be taken in addition to one of the following English 12 courses. This course is recommended as an elective addition to English 12 for students who wish to prepare for university in their graduating year. This elective course provides senior students with opportunities to think critically as they explore, extend, and refine their academic reading and writing skills. Students will develop their writing through processes of drafting, reflecting, and revising to build a body of work that demonstrates breadth, depth, and evidence of writing for a range of situations.

Highlights:

- Non-Fiction writing for a variety of purposes: compare/contrast, persuasion, expository/argumentative, process analysis, cause and effect, etc.
- Research paper (MLA and APA citation styles)
- Academic reading strategies

ENGLISH 12

In English 12, students will develop a critical vocabulary with which to respond to literature, both in writing and in discussion. The principal materials studied will be short stories, poetry, novels, essays, and plays. Students should leave this course with the ability to write an insightful and well-organized essay and use

descriptive or narrative techniques effectively. *This course has a compulsory provincial exam worth 40% of the mark.*

AP ENGLISH LITERATURE AND COMPOSITION 12

This course is a rigorous, college-level program similar in content and expectations to a first-year university course. Students will read challenging, stimulating literary texts, will hone their analytical skills, and they will learn to write with sufficient richness and complexity to communicate effectively with mature readers of literature. This course prepares students for both the AP English Literature and Composition exam and the English 12 Provincial exam. This course is equivalent to 8 credits – 4 credits for English Studies 12 and 4 credits for Advanced Placement English. *This course has a compulsory provincial exam that is worth 40% of the mark.*

COMMUNICATIONS 12

This is a practical course focusing on the use of English in everyday life. It is designed for students who would have difficulty being successful in the regular English courses. This course has a compulsory provincial exam worth 40% of the mark. *This course has a compulsory provincial exam that is worth 40% of the mark.*

SOCIAL STUDIES

SOCIAL STUDIES 8

Students will explore the rise and fall of several major civilizations while developing their understanding of the diverse world of cultures that surround us. Focus will be on how cultures interacted with one another, and how contact often led to conflict. Themes such as exploration, expansion, and colonization will be used to address political, social and cultural change. Students will also look at how the relationship between humans and the environment helped shaped society. Students will develop their skills at assessing documents (writings, drawings, records) for bias in order to understand history as more than a collection of facts, critical and creative thinking to compare and contrast aspects of the cultures being studied.



SOCIAL STUDIES 8 ENRICHED

Students in Enriched Alpha Social Studies courses will be integrated into the regular Social Studies 8 classroom, and will have the opportunity to express their interest and ability while being guided by their teacher. Regular classroom instruction and assessment will be augmented with extension projects or enrichment components that students choose to complete if they want an enriched designation. Students may also be required to demonstrate a deeper understand of course material through self-directed learning opportunities including field trips and fairs. Curiosity and inquiry will be the primary drivers for students who wish to receive an enriched designation.

SOCIAL STUDIES 9

Students will study how emerging ideas and ideologies changed the landscape of Europe, North America and around the globe, impacting political, social and economic landscapes. Revolutions and rebellions are a major topic of interest, including events in Europe and North America, and the impact these had on migrating peoples and indigenous peoples. Along with the physiographic regions of Canada, the other major component is the development of Canada as a nation, how its identity was created in the first fifty years after Confederation, and how that impacted our relationship with First Peoples, our American neighbours, and European contacts. This historical context will be compared to modern-day conflicts and challenges that face Canada today, such as immigration and trying to come to terms with historical wrongs. This content is interwoven with the key skills students will need to look critically at our changing world, such as document analysis, map interpretation, synthesizing ideas and defending opinions.

SOCIAL STUDIES 9 ENRICHED

Students in Enriched Alpha Social Studies courses will be integrated into the regular Social Studies 9 classroom, and will have the opportunity to express their interest and ability while being guided by their teacher. Regular classroom instruction and assessment will be augmented with extension projects or enrichment components that students choose to complete if they want an enriched designation. Students may also be required to demonstrate a deeper understand of course material through self-directed learning opportunities including field trips and fairs. Curiosity and inquiry will be the primary drivers for students who wish to receive an enriched designation.

SOCIAL STUDIES 10

Social Studies 10 covers much of the same material as Social Studies 11 used to, as that course is being phased out. Student will build on skills learned in grade 8 and 9 to develop a greater understanding of more difficult and abstract ideas that have impacted Canada over the last one hundred years. Many of the problems of the modern world, such as climate change, economic disparity, and political and social turmoil are a result of or can be compared to events in the 20th Century. Key issues concerning political institutions and ideologies, First Peoples self-governance, and discriminatory policies will be examined, in conjunction with Canada's role in global affairs as they look at economic inequality and development, the human-environment interaction, and other population pressures.

SOCIAL STUDIES 10 ENRICHED

Students in Enriched Alpha Social Studies courses will be integrated into the regular Social Studies 10 classroom, and will have the opportunity to express their interest and ability while being guided by their teacher. Regular classroom instruction and assessment will be augmented with extension projects or enrichment components that students choose to complete if they want an enriched designation. Students may also be required to demonstrate a deeper understand of course material through self-directed learning opportunities including field trips and fairs. Curiosity and inquiry will be the primary drivers for students who wish to receive an enriched designation.

SOCIAL STUDIES 11: Explorations

Social Studies 11: Explorations will allow students to get some exposure and introduction into the other senior social studies courses. There are a total of fourteen Big Ideas that teachers can choose from to build a framework for their classes, choosing several different ones to fit the needs of the class. There could be a variety of content amongst teachers, and some teachers may choose to team teach if scheduling permits, allowing a maximum amount of flexibility to provide content to students. Regardless of content being covered, all students who take this course will have the same expectations when it comes to curricular competencies, such as using inquiry methods, comparing cultural phenomena across time and space, making ethical judgements about decisions and information and understanding trends and patterns in human development.

20th CENTURY WORLD HISTORY 12

This course looks at the major events of the 20th century, with a focus on the growth of Nationalist movements and political changes that occurred in the century, and the resulting local and global conflicts that arose. Students will use inquiry and critical thinking skills to compare and contrast the different impacts on religion, culture, and society that arose as a result of these conflicts, and how human rights, social inequity, and religious persecution resulted from many of the authoritarian regimes that arose in the last 100 years. Students will also look at the impact technology and globalization has had on the world and its people. Students will have the opportunity to analyze information from a variety of sources, and assess the validity and accuracy of data, and how that data shapes our view of the past.

COMPARATIVE CULTURES 12

This course will look at elements of culture and cultural expression and how those aspects of a civilization change over time. Students will use different perspectives and an inquiry model to examine things like conflict, governance, systems of power and authority, and value and belief structures. Students will assess the impact to cultures things like technology and art have had over generations, and evaluate how cultures share, dictate to, and develop with one another. The course looks at both European and non-European civilizations over a wide range of countries and periods in history.

COMPARATIVE WORLD RELIGIONS 12 (NEW)

Comparative world religions begins by looking at the basis and origins of religion, mythology and spirituality in a variety of contexts and locations throughout history, including the growth and decline in popularity over the centuries. Specific world and First Peoples belief systems will be studied, including institutional and social structures, sacred texts and traditions, and how religion is expressed in daily life through things like art and architecture. Students will examine at how artifacts have influenced culture and assess the representation of religion through mass media.

ECONOMICS 12 (NEW)

Economics offers a blend of current economic policies and practices with historical theory and the background of how, what, and why economic theories exist today. Students will look at traditional ideas of money, banking, value growth and distribution, and how they have adapted and changed to meet a different market in today's society. Students will explore concepts relating to both macroeconomics and microeconomics, and assess the justification for competing economic theories and approaches.

HUMAN GEOGRAPHY 12 (NEW)

Human Geography will look at demographic patterns and the factors that influence changes to global and local demography. Relationships between cultures, physical space, and the environment will be compared and contrasted by region and time period to see what trends have developed and the forces that have caused those changes. Agriculture, economies, urbanization, and political organization will all be addressed according to their spatial relationships and their impact on humans. Historical changes and the forces driving modern day decisions and implications for the future, round out the course of study.

LAW STUDIES 12

The course will provide a comprehensive introduction to law and the legal process, particularly as they relate to the Canadian justice system. In addition to discussing the basic components of the law, the course will explore some of the major legal issues facing Canadians, including the parole system, young offenders and juvenile justice, and constitutional rights under the Charter. Field trips, guest speakers, films, and documentaries all add to the course. Students will analyze actual legal cases utilizing decision making techniques with their legal knowledge to determine case outcomes. Students will also look at the correctional system, and will analyze the history of law in Canada as it pertains to such things as past social injustices, and ethical decision making.

PHYSICAL GEOGRAPHY 12

Students understand the topics of resources and resource management through studying people's interaction with an ever-changing environment. Humans affect their world through agricultural systems, biotechnology, mining and forestry and are in turn impacted by those environments through environmental degradation and natural disasters. The physical processes that affect the earth form the basis of students' understanding. Topics include plate tectonics, volcanism, earth-quakes, landscapes of the world, climate, weather, map skills, vegetation, and soils. Students will make ethical judgements of actions that have impacted our environment in the past, interpret historical and modern day evidence on topics like climate change, and analyze the human-environment interaction that has been occurring for millions of years.

POLITICAL STUDIES 12 (NEW)

This course will focus on major political systems here and abroad including First Peoples' governance. Students will look at different electoral systems, the relationships created between people and governments, and international systems that attempt to control global issues. Local, regional, and national politics in Canada will be looked at, as well as issues arising from things like regional disparity and the role of mass media in the democratic process. Students will assess the impact of political data and propaganda, what factors influence political decision making, and critically analyze past and present political decisions that had unintended consequences.

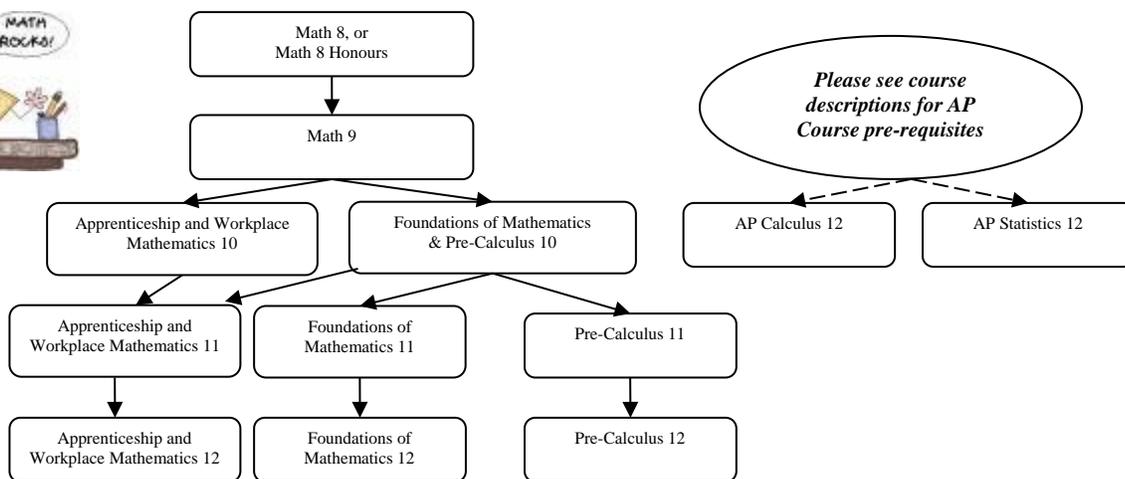
PSYCHOLOGY 12

Psychology 12 is a course on human behaviour and basic concepts in modern psychology. This course covers the five major psychological domains: methods, bio-psychological, cognitive, developmental, and socio-economic domain. This course is recommended for those students who have an interest in Psychology and wish to pursue it further at a post-secondary institution. The focus of this course is to develop students' abilities with critical thinking, essay writing, research and experimental methods, academic reading, and oral presentations.

SOCIAL JUSTICE 12

The course has three focus areas: defining social justice, recognizing, confronting and overcoming injustice, and moving toward a socially just world. Students will be active participants in class discussions, will use inquiry and critical and creative thought to examine issues of injustice, and will develop an action plan to address a selected issue. Students will examine the connectedness of social justice issues both locally and abroad, while using inference and the assessment of different points of view to reach a deeper understanding of past and present issues. This will be a stimulating course for students interested in taking the initiative to direct their own learning and to use their acquired knowledge and skills to help create a socially just world.

MATHEMATICS



MATHEMATICS 8

The Grade 8 Mathematics course builds upon skills developed in previous grades. Topics in the course include the study of Numbers, Patterns & Relations, Shape & Space, and Statistics & Probability. This course aims to provide students with the opportunity to develop the knowledge, skills, and attitudes necessary to be numerate. The focus of the standard Mathematics 8 curriculum is on the conceptual understanding of numeracy concretely, pictorially and symbolically. Throughout the year students will be completing many individual assignments/activities, as well as working with partners/groups. Students will be using math manipulatives such as fraction tiles to help them learn concepts and demonstrate their understanding. They will be drawing representations and writing about concepts. Students are encouraged to share their strategies with other students in the class. An individual student's assessment of performance will underscore the student's understanding of the prescribed learning outcomes. It is expected that students will maintain high levels of achievement in all their endeavours.

MATHEMATICS 8 HONOURS

Mathematics 8 Honours is designed for students who are interested in and capable of pursuing a more challenging course of study. The aim of the course is to provide students with the opportunity to develop the knowledge, skills, and attitudes necessary to be numerate. Students will learn to reason logically, employ quantitative and spatial information, and apply a variety of mathematical methods to solve problems. The focus will be on the conceptual understanding of numeracy concretely, pictorially and symbolically. The course has the same learning outcomes and textbook as Mathematics 8, but contains a significant enrichment component.

Most times, Honours students will receive different assignments from students enrolled in Mathematics 8. The Honours assignments will sometimes have fewer questions, and sometimes include questions that are either at a higher level, or consist of questioning that extend the concepts beyond the basic assignment. Honours students may also be challenged by in-depth study of some concepts beyond that required by the prescribed curriculum, such as those brought in mathematics contests and regional contests. There will be occasions when Honours students will have the opportunity to meet and work together in mathematics study with guest lecturers from either Simon Fraser University or the University of British Columbia.

Honours students explore non-routine problems, present the solutions to the problems, and participate in Mathematics Contests. Honours students' marks will reflect their understanding of the prescribed learning outcomes for their mathematics course. It is expected that they will maintain high levels of achievement in all their endeavours.

MATHEMATICS 9

This is the standard Mathematics course for entrance into all three of the senior mathematics pathways. The course includes the study of algebra, geometry and graphing, and an introduction to trigonometry.

MATHEMATICS 9: HONOURS

This course has the same learning outcomes and texts as the standard Math 9 course but also include a significant enrichment component. Students explore non-routine problems and prepare to participate in Mathematics competitions.

FOUNDATIONS OF MATH & PRE-CALCULUS 10

This course is intended for students who wish to continue their education after graduation in the fields of Science, Engineering, Language Arts, Fine Arts and other courses offered at post-secondary degree and diploma granting institutions. The basis of this course is both theoretical and applied mathematics focussing on algebra, number systems, relations and functions, and measurement. (The Honours course includes an enrichment component).

FOUNDATIONS OF MATH & PRE-CALCULUS 10: HONOURS

This course is intended for students who wish to continue their education after graduation in the fields of Science, Engineering, Language Arts, Fine Arts and other courses offered at post-secondary degree and diploma granting institutions. The basis of this course is both theoretical and applied mathematics focussing on algebra, number systems, relations and functions, and measurement. (The Honours course includes an enrichment component).

APPRENTICESHIP & WORKPLACE MATHEMATICS 10

Through more exploratory and real-world applications, this pathway introduces concepts of measurement systems, number systems and algebra. The intent for this course is to provide a strong basis of numerical knowledge for those wishing to continue their post-secondary education in apprenticeship and trade institutions. Apprenticeship and Workplace Mathematics 11 meets the graduation requirements as set out in Ministry of Education documents.

FOUNDATIONS OF MATHEMATICS 11

Foundations of Mathematics is intended for students who wish to continue their post-secondary education in Language Arts or Fine Arts. It has a focus on measurement, relations and functions, algebra and number systems. Foundations of Mathematics 11 completes the graduation requirements for Mathematics.

PRE-CALCULUS 11

Pre-calculus 11 provides students with opportunities to explore the concepts introduced in Foundations and Pre-Calculus Math 10 in more depth. This course is intended for students who are interested in enrolling in such programs as business, science, engineering and human kinetics. Students studying this course experience a rigorous analysis of all the elementary functions, number systems, curve-sketching and algebra and those who successfully master the course content may register to take Pre-Calculus 12.

APPRENTICESHIP & WORKPLACE MATHEMATICS 11

This pathway is strongly recommended for students who are planning on entering the workforce directly after high school, or who are planning on pursuing a career in the trades industries. It provides a practical, contextual focus that encourages students to develop their mathematical knowledge, skills, and attitudes in the context of their lives and possible careers. Topics covered include trigonometry, rate of change, graphical analysis, geometry, measurement, banking and budgets. This course satisfies the Ministry of Education's mathematics graduation requirement

FOUNDATIONS OF MATHEMATICS 12

This course is designed to provide students with the mathematical understandings and critical-thinking skills identified for post-secondary studies in the arts or the humanities. Topics in this course involve the study of puzzles, compound interest and investment portfolios, set theory, probability, polynomial exponential logarithmic and sinusoidal functions, current events in math.

PRE-CALCULUS 12

This course is for students who will study calculus in a post-secondary institution in such areas as Mathematics, Business, Sciences, or Engineering. This course includes the following topics: combinatorics, binomial expansion, composite functions, transformations of graphs, exponential and logarithmic functions, polynomial factoring, radical and rational functions, trigonometry, equations and identities.

APPRENTICESHIP & WORKPLACE MATHEMATICS 12

This course is specifically designed to provide students with the mathematical understandings and critical-thinking skills identified for a career in the trades industries, or for direct entry into the work force. Topics include the following: purchasing vehicles, small business liability, polygons, geometric transformations,

number puzzles, precision and accuracy of instruments, probability, linear relations, central tendency, sine and cosine law.

CALCULUS 12

Calculus 12 will introduce the student to the fundamentals of differentiation and integration along with applications. Topics include graphing, maxima and minima, related rates, areas, volumes and exponential functions. This course is an excellent introduction to university level Calculus. Students interested in post-secondary studies in Math, Business, Science, or Engineering should consider Calculus in preparation for post-secondary studies in these areas.

SCIENCE

SCIENCE 8

Science 8 focuses on cells, kinetic molecular theory, energy transfer and plate tectonics. Students complete a variety of inquiry based activities and work to connect their learning to real world applications.

DISCOVERY SCIENCE 8/9 HONOURS - ACCELERATED

Admission to Alpha's Discovery program is based on a recommendation from the student's elementary teacher. The course is an accelerated delivery of both Science 8 and 9 curriculum. This course is designed for students who are interested in and capable of pursuing a more challenging course load at an accelerated pace.

SCIENCE 9

Science 9 focuses on cell growth and reproduction, electron arrangement of the atom, current and static electricity, and energy flow in ecosystems. Students complete a variety of inquiry based activities and work to connect their learning to real world applications.

SCIENCE ENRICHMENT 8, 9, 10

Students in Science Enrichment are integrated with the regular class. The students complete the same curriculum but with added independent research topics completed through further scientific study. Students are expected to complete one major project for each unit of study, as well as one additional inquiry project of the student's choice. Students will consult with their teacher and discuss an individual plan to enrich their own learning. After successful completion of the criteria, students may be eligible to receive an Enriched designation on their report cards. Success in Science Enrichment means completing requirements independently, meeting deadlines, and checking in regularly with their teacher.

SCIENCE 10

Science 10 has four major units: Genetics, Chemical Processes, Energy Transfer and the Big Bang Theory. Students complete a variety of inquiry based activities and work to connect their learning to real world applications.

SCIENCE FOR CITIZENS 11

This course explore topics relating to nutrition and health, applying science to the home, automation, work place and industry, sustainability and climate change, and chemical reactions and forensics. Students will learn how science informs our decisions and impacts our daily lives

ENVIRONMENTAL SCIENCE 11

This course explores the diversity of Earth's ecosystems, with a focus on environmental conservation. Major units of study will include biodiversity & terrestrial ecosystems, atmospheric science & climate change, hydrology & marine ecosystems, and sustainable land use. This course takes a holistic approach to environmental sustainability, and students have opportunities to connect their learning to hands-on projects and their communities.

BIOLOGY 11

Biology 11 is designed to introduce students to the diverse adaptations and ecological relationships in a variety of living organisms. This course covers microbiology, mycology (fungus), plant biology, animal biology and ecology with themes of evolutionary change throughout the course.

BIOLOGY 11 HONOURS and AP BIOLOGY 12 (*students must choose both*)

This program is designed to cover both semesters so students must request both courses. The two courses cover the objectives of Biology 11 and 12 as well as additional material for Advanced Placement. The AP Biology course is designed to be the equivalent of a college introductory biology course and is open to any students who are prepared to do extensive inquiry based research and labs. More than 25% of the course is practical laboratory work. *Upon completion, students will receive a total of 12 credits. The AP Biology exam is written in May.*

CHEMISTRY 11

Chemistry 11 includes the study atoms, molecules, chemical reactions, solution chemistry and organic chemistry. These concepts are reinforced through laboratory work.

CHEMISTRY 11 HONOURS and AP CHEMISTRY 12 (*students must choose both*)

This program is designed to cover both semesters so students must request both courses. The two courses cover the objectives of Chemistry 11 and 12 as well as additional material for Advanced Placement. The AP Chemistry course is designed to be the equivalent of a college introductory chemistry course. College Board guidelines are followed in the design of the course. Many topics in Chemistry 11 and 12 are covered in more detail than in the regular course. In addition, topics such as thermodynamics and thermo chemistry are studied. *Upon completion, students will receive a total of 12 credits. The AP Chemistry exam will be written in May.*

PHYSICS 11

Welcome to the world of Galileo, Isaac Newton and Albert Einstein! These giants of physics teach us how to see the invisible forces and energies that govern movement of cars and spaceships alike. This course includes the study of motion, forces, momentum and energy, the properties of mirrors, lenses, waves and light, nuclear power and Einstein's special theory of relativity. As part of course requirements, students will contribute by making connections to real physical situations, and inquiry lab experiences.

PHYSICS 11 Honours and AP PHYSICS 1 (*students must choose both*)

This program is designed to cover both semesters so students must request both courses. Are you up for the challenge of a first-semester college/university level course that is mathematically rigorous, requiring problem-solving at a Physics 12 level? This college/university course preparation is faster-paced than Physics 11 and individual study of 1 to 2 hours daily will be necessary to successfully complete the requirements. Upon course completion students get physics 11, 12 and AP

Physics 1 credits. Students will be accepted on the recommendation of their teachers, and an application process. The course is also suitable for grade 12's who only need one physics course.

BIOLOGY 12

Biology 12 encompasses two major topics of study: Cellular Biology: cell structure/function, biological molecules DNA, protein synthesis and enzymes; and Human Anatomy and Physiology: digestive, circulatory, respiratory, nervous, endocrine, excretory and reproductive systems.

CHEMISTRY 12

Chemistry 12 builds on concepts covered in Chemistry 11 and emphasizes the interaction of atoms, molecules, and ions. The course covers the study of reaction kinetics, chemical equilibrium, and oxidation-reduction. The concepts are reinforced through laboratory work. Through this investigation, students will gain an increased understanding of the importance of chemistry in the modern world.

PHYSICS 12

Physics 12 is an enrichment of physics 11 course with the addition of the study of classical mechanics in 2D such as projectile motion, forces in 2D, circular motion, torque, as well as units such as static electricity, current electricity, and electromagnetism. Are you up for a challenge? Problem-solving is mathematically much more rigorous than in Physics 11, and takes much more time every night to get the same good grades.

AP Environmental Science 12

The AP Environmental Science course is designed to be the equivalent of a one semester introductory college course in environmental science. Topics include Earth Systems and Resources, The Living World, Population, Land and Water Use, Energy Resources and Consumption, Pollution and Global Change. Completion of Chemistry 11 and Biology 11 is recommended.

LANGUAGES

FRENCH 8

This course builds upon the background students have acquired at elementary school. Basic vocabulary and grammar structures are reviewed and reinforced as a basis for communication in situations drawn from real-life. Students are taught to use language learning strategies to help them understand spoken and written French. They will be expected to participate in short conversations, give presentations and exchange information about their interests and activities. Language is taught within the context of age appropriate themes, with a large emphasis on listening and speaking.

FRENCH 9

This course builds upon the knowledge, skills and language learning strategies acquired in French 8. There is an increased emphasis on listening, speaking, reading and writing. In this course, students will use French to participate in short conversations, ask for and share information about activities and interests, listen to French audio scripts, read various texts and express themselves in the written language. Communication is centered on age-appropriate themes. Students will discover aspects of Francophone culture around the world.

SPANISH 9

This course is an introduction to the Spanish language. Emphasis is on listening, speaking, reading and writing. Opportunities are provided for students to participate in short conversations, ask for and share information about activities and interests, listen to authentic audio scripts, watch films, read various texts and express themselves in the written language. Communication is centered on age-appropriate themes. Students will discover aspects of the Spanish-speaking world and its culture.

FRENCH 10

This course reviews and builds upon the French 9 program. By the end of this course, students will have increased confidence in understanding and communicating in French. Grammar and vocabulary are taught within the context of engaging themes, allowing for individual expression, through a variety of written and performance based tasks. Students will also explore Francophone culture around the world.

SPANISH 10

This course builds upon the knowledge, skills and language learning strategies acquired in Spanish 9. There is an increased emphasis on listening, speaking, reading and writing. By the end of this course, students will have greater confidence in understanding and communicating in Spanish. Grammar and vocabulary are taught within the context of engaging themes, allowing for individual expression, through a variety of written and performance based tasks. Students will explore the Spanish-speaking world and its culture.

FRENCH 11

This course reviews and builds upon the French 10 program, with an emphasis on written communication and reading comprehension. By the end of this course, students will be able to use French to complete a variety of written and performance based tasks. Grammar and vocabulary are taught more extensively, in order to clarify and enhance communication skills. Students will continue to explore Francophone culture around the world. This course satisfies university entrance requirements.

SPANISH 11

This course provides further development in listening, speaking, reading and writing. It builds upon the knowledge, skills and language learning strategies acquired in Spanish 10 or Intro. Spanish 11. By the end of this course, students will be able to use Spanish to complete a variety of written and performance based tasks. Grammar and vocabulary are taught more extensively, in order to clarify and enhance communication skills. Students will examine Spanish-speaking culture around the world. This course satisfies university entrance requirements.

INTRODUCTORY SPANISH 11

This course is open to students looking for a challenging introductory language course; curriculum is presented at an accelerated pace. Language and culture is explored through engaging themes aimed at meeting the needs of all learners. Learning outcomes are taught within the context of real life situations, allowing for individual expression through a variety of written and performance based tasks. This course satisfies some university entrance requirements and is a prerequisite for Spanish 11.

FRENCH 12

This course will provide increased opportunity to develop all four skills in listening, speaking, reading and writing. Grammar and vocabulary are taught within motivating themes that promote critical thinking and creative expression. Instruction will often be in French, and students will be encouraged to use French as the routine language of communication. Students will examine Francophone culture around the world. This course has an optional provincial exam.

SPANISH 12

This course will provide increased opportunity to develop all four skills in listening, speaking, reading and writing. Grammar and vocabulary are taught within motivating themes that promote critical thinking and creative expression. Instruction will often be in Spanish, and students will be encouraged to use Spanish as the routine language of communication. Students will examine Spanish-speaking culture around the world. This course has an optional provincial exam.

If student interest is sufficient, the following languages may be offered:

Mandarin, Japanese, Croatian, Italian, Korean and Punjabi.

PHYSICAL EDUCATION

PHYSICAL AND HEALTH EDUCATION 8

This course will introduce students to a wide variety of sporting, recreational, and fitness activities enabling them to further develop their fundamental movement skills and contribute to their physical growth and development. Students will also have the opportunity to participate in alternative environment activities to build their understanding and appreciation for the components of active living such as skating, bowling and a year-end trip to Cultus Lake Waterpark. In addition, students will be introduced to health literacy units such that promote healthy eating choices, will learn about the anatomy of bones and muscles and will read/discuss case studies about bullying and cyberbullying. These educational experiences will allow each student to learn and understand the importance of fundamental movement skills that may transfer to different activities, and concepts of being healthy, and the importance of mental health.

PHYSICAL AND HEALTH EDUCATION 9

The course is a continuation and progression of Physical and Health Education 8 with more attention given to healthy relationships with one another and an extension to the nutrition unit. In addition, students are provided opportunities to participate in alternative environment activities which may include skating, bowling, traditional Kung-Fu, self defense, yoga, and table tennis. This course will continue to build on transfer of fundamental skills to activities done in PHE and further enhance the understanding of being healthy and the importance of mental health.

PHYSICAL AND HEALTH EDUCATION 10

The Physical and Health Education 10 course builds upon PHE 9, enabling students to explore many alternative activities, yet still developing their fundamental movement skills. In this course, they will be given the opportunity to explore activities such as skating, bowling, golf, hip-hop dance classes and a CPR/First Aid certification course lead by Firefighters in Burnaby. In addition, students will have discussions about making healthy living choices through the active health units. Students will explore, learn and understand the concepts of physical and health literacy and emphasize the importance of self-awareness and mental health.

PHYSICAL EDUCATION 11

This course progresses from the PE 10 program and offers students the chance to participate in a wider variety of sporting and recreational activities. The senior PE program combines aspects of the junior program with an increasing focus on lifelong recreational pursuits. This course is a good choice for those who enjoy actively participating in individual or team sports, recreational and/or competitive activities. Field trips in this course could include bowling, laser tagging, bubble soccer, kayaking, indoor/beach archery and the Grouse Grind. Students are provided with leadership opportunities throughout this course such as planning and running an activity, visiting a junior PHE class to lead activities or with approval, visit a local elementary

school to run low organized activities/games with elementary students. This course emphasizes healthy lifestyles and teaches students to stay active after they graduate from Alpha Secondary.

PHYSICAL AND HEALTH EDUCATION 11 – KEEP FIT

This course focuses on fitness, recreational activities, and health related topics of specific interest to students in grade 11. This course aims to teach students the tools necessary to develop and maintain a healthy lifestyle into their adult years. The course approaches health and wellness from a holistic perspective exploring not only the physical aspect of health, but the mental and emotional areas as well. Students will participate in a wide variety of activities including weight-training, Pilates, yoga, Zumba, kayaking, hiking and more. This course focuses on being healthy and having fun.

WEIGHT TRAINING 11

This course is a good choice for students wanting to learn how to train and improve their physical fitness levels including muscular strength/endurance, flexibility, cardiovascular endurance, speed, balance, power and agility. The majority of the course will take place in the weight room with periodic classroom sessions covering a number of topics that include physiology of exercise, nutrition, performance supplements, goal setting (FITT principle) and the basics of individual program design. Students will learn the basics of the different types of training equipment, weight room etiquette, training techniques and safety in the weight room. This course will emphasize students to maintain the importance of personal fitness for students when they graduate from Alpha Secondary.

PHYSICAL EDUCATION 12

This course progresses from the PE 10 program and offers students the chance to participate in a wider variety of sporting and recreational activities. The senior PE program combines aspects of the junior program with an increasing focus on lifelong recreational pursuits. This course is a good choice for those who enjoy actively participating in individual or team sports, recreational and/or competitive activities. Field trips in this course could include bowling, laser tagging, bubble soccer, kayaking, indoor/beach archery and the Grouse Grind. Students are provided with leadership opportunities throughout this course such as planning and running an activity, visiting a junior PHE class to lead activities or with approval, visit a local elementary school to run low organized activities/games with elementary students. This course emphasizes the ability to maintain a healthy lifestyle and teaching students to stay active after they graduate from Alpha Secondary.

PHYSICAL AND HEALTH EDUCATION 12 – KEEP FIT

This course focuses on fitness, recreational activities, and health related topics of specific interest to students in grade 12. This course aims to teach students the tools necessary to develop and maintain a healthy lifestyle into their adult years. The course approaches health and wellness from a holistic perspective exploring not only the physical aspect of health, but the mental and emotional areas as well. Students will participate in a wide variety of activities including weight-training, Pilates, yoga, Zumba, kayaking, hiking and more. This course focuses on being healthy and having fun.

WEIGHT TRAINING 12

This course is a good choice for students wanting to learn how to train and improve their physical fitness levels including muscular strength/endurance, flexibility, cardiovascular endurance, speed, balance, power and agility. The majority of the course will take place in the weight room with periodic classroom sessions covering a number of topics that include physiology of exercise, nutrition, performance supplements, goal setting (FITT principle) and the basics of individual program design. Students will learn the basics of the different types of training equipment, weight room etiquette, training techniques and safety in the weight room. This course will emphasize students to maintain the importance of personal fitness for students when they graduate from Alpha Secondary.

VPA Certification/Diploma Program

École Alpha Secondary School is now offering a VPA Certificate/Diploma Program for students that have shown dedication to the Arts. Specific requirements are available from your VPA teacher.

DANCE COURSES

DANCE 9

Students of all ability levels will come to understand how dance concepts add depth, variety and complexity to movement. Students will progressively learn physical skills, technique and principles of movement in order to increase the variety of combinations that the movements may be performed in. There will be opportunities for students to apply imagination and inventiveness to their movement as they work cooperatively to create and perform short pieces in class



DANCE 10: PERFORMANCE

This course continues to develop the technique and skills as a dancer. With a solid foundation of dance techniques, students will be able to explore and enjoy a variety of dance styles and genres. Students will also work on performance skills such as focus, precision, and stage presence. This course will involve students in the creative process of exploration, refinement and reflection on movement elements and require them to present and perform students and teacher developed choreographies.

DANCE COMPANY 10 (*Offered outside the timetable*)

This performance based class is considered an honours class for students who are highly motivated and dedicated to train in Dance. Students will explore and perform different genres of dance, such as Hip Hop, Tap, Flamenco, Jazz, Lyrical, Contemporary and Ballet. Emphasis will be placed on performance skills and technique.

DANCE 11: PERFORMANCE

This course will focus on Choreography and Performance by providing students with an opportunity to create dance pieces for formal and informal stages. Students are expected to be committed and work hard as dance is demanding, but very rewarding. Students will continue to sharpen their technical skills, study various styles and explore the history of dance.

DANCE COMPANY 11 (*Offered outside the timetable*)

This performance based class is considered an honours class for students who are highly motivated and have also had previous experience with Dance classes or Dance Team. This class will explore and perform different genres of dance, such as Hip Hop, Tap, Flamenco, Jazz, Lyrical, Contemporary and Ballet. Emphasis is placed on performance skills, technique, terminology, understanding of theory and context of dance performance. It is strongly recommended that students take an additional dance class, either Dance Performance 11 or Choreography 12 to help with their overall learning.

DANCE 12: PERFORMANCE

This course will focus on Choreography and Performance by providing students with an opportunity to create dance pieces for formal and informal stages. Students are expected to be committed and work hard as dance is demanding, but very rewarding. Students will continue to sharpen their technical skills, study various styles and explore the history of dance

DANCE 12: CHOREOGRAPHY

Intermediate to advanced dancers will thrive in this progressive class that includes many elements of technique, group composition and individual choreography work. Ample opportunity for performance will be provided. Students will improve technical skills/knowledge and awareness of composition. Through problem, solving, critiquing and performance students will increase their understanding of creative and artistic development.

DANCE COMPANY 12 (*Offered outside the timetable*)

This performance based class is considered a master class for students who are highly motivated and have also had previous experience with Dance classes or Dance Team. This class will explore and perform different genres of dance, such as Hip Hop, Tap, Flamenco, Jazz, Lyrical, Contemporary and Ballet. Emphasis is placed on performance skills, technique, terminology, understanding of theory and context of dance performance. This class explores skills necessary to participate as a dance performer.



DRAMA COURSES

DRAMA 8

This introductory course provides students with opportunities to experience, understand, and value the language and art of both drama and dance. The Drama portion of the course will encourage students to trust themselves and others while learning the fundamentals of theatre and the elements of basic acting. Students will explore the elements of drama through warm up games, improvisation, and role-playing. As well, students will learn the general rules of the stage, such as staging, blocking, voice, gestures and movement. In the Dance portion of the course, students will explore movement; build rhythm, strength, co-ordination and flexibility through daily warm-ups, exercises and combinations. Through dance, students will reflect on experiences and explore creative expression while being introduced to dance vocabulary, as well as techniques from different styles of dance, such as hip-hop, jazz, tap, etc.

DRAMA 9

Drama 9 develops student's knowledge, skills and experiences in drama with projects, group activities and games and script work. Through performance opportunities and basic script work, students increase personal development and communication skills. This fun class is open for both new and returning drama students.

DRAMA 10

This course is a creative dramatics course with an emphasis on personal and social development, concentration, trust and cooperation. We will study some of the basic techniques of improvisation and role-playing to create theatre. As well, we will cover the general rules of the stage, such as staging and blocking, voice, gestures and movement. We use a variety of techniques such as theatre games, improvisation, role-playing, storytelling, description, observation and critique. This course will cover the fundamentals of theatre, the elements of basic acting as well as preparing roles through simple character development. We will do some script work but mostly group and ensemble work.

THEATRE PRODUCTION 10/11/12 (*Offered outside the timetable*)

This course will be offered outside the regular timetable. Students enrolled in this course will take part in major productions at Alpha Secondary, which will be performed for students and public audiences. Students will also study stagecraft and production skills, attaining knowledge in lights, costumes, sound, and set. No experience or prerequisite necessary: hard work and commitment is all it takes. Classes will run 2 or 3 days after school, involve show rehearsals, and performance evenings.

THEATRE PERFORMANCE 11/12: ACTING

This course continues with improvisation and learning stage blocking, voice projection, movement etc., but also shifts from role playing and improvisational exploration to a greater emphasis on the art of acting and tools and techniques of basic technical theatre. You will work with scripts and study some technical aspects of theatre. Personal awareness and self-discipline play an important role in this course.

THEATRE PERFORMANCE 11/12: DIRECTING & SCRIPT DEVELOPMENT

Students enrolled in this class will be responsible for the selection and direction of scenes and short one act plays. They will participate in an acting class in a performance capacity. Students will also take a leadership role in devising and editing scripts, auditioning, casting and rehearsing actors, and contributing to the design of sound, costume, lights and sets for class productions.

IMPROV 12

The emphasis of this course is to provide and elaborate on the basic improvisation skills: listening, clarity, confidence, cooperation and performing instinctively and spontaneously. Students will build on skills learned in Drama in character, story, and environment, while working to perform improvisation scenes, creating work alone, in pairs, and within ensembles.

Requirements: Drama 8-10 or grade 10s can sign up with instructor permission

MUSIC COURSES



MUSIC 8: BEGINNER BAND

This course is an introduction course in which students are introduced to the technique, rudiments, and maintenance of a selected band instrument. Concepts such as articulation, embouchure, blend, balance, tone and style are introduced to form a foundation of musical awareness that encourages expression, reflections and performance. Students should choose Beginner Band 8 if they have no previous experience with an instrument.

MUSIC 8: CONCERT BAND

This course is intended for students who have already taken Elementary Grade 7 Band course. The course will involve instrumental technique, performance, theory, music history and music appreciation as they relate to the repertoire studied. Students will be required to attend all scheduled extra-curricular rehearsals and performances as part of the course expectations.

CHORAL 8: CHOIR (*Offered outside the timetable*)

Choir 8 is intended as an introductory choral experience. While no prior experience is required for this course, previous participation in choir would be an asset. Students will develop music-reading skills, knowledge of music and vocal technique through the performance in choir. Choir is at 7:20 a.m. on alternate days throughout the school year.

MUSIC 9: CONCERT BAND

This course is intended for students who have taken Junior Band course in Grade 8. The course will involve instrumental technique, performance, theory, music history and music appreciation as they relate to the repertoire studied. Students will be required to attend all scheduled extra-curricular rehearsals and performances as part of the course expectations.

CHORAL 9: CHOIR (*Offered outside the timetable*)

The course will cover basic singing technique, music reading, repertoire understanding, performance and the responsibilities, which go along with working in a group situation. As with all music activities, members of this class should expect that part of their learning situation will involve a commitment to regular home practice and extra-curricular activities. Students will be required to attend all scheduled extra-curricular rehearsals and performances as part of the course expectations. Choir is at 7:20 a.m. on alternate days throughout the school year.

MUSIC 9: JAZZ BAND *(Offered outside the timetable)*

Students will gain a general knowledge of jazz styles and interpretation, as well as the techniques and rhythms unique to jazz. Students will learn fundamental jazz improvisation skills. Instruments are: trumpet, trombone, saxophone (alto, tenor, bari) and rhythm section (piano, bass, drums, and guitar). All Jazz Band students must be registered in Concert Band as well. Please see your music teacher if you are interested in this course.

MUSIC TECHNOLOGY 10

This course is a unique music composition class at Alpha, with a focus on technology. This course is intended for students who have some background in a band program or private piano study for at least two years. Students will learn to explore and arrange sound to form compositions for both live instruments and computer generated sounds. Programs in the music lab include Cubase, Sibelius, and Band in a Box, used with synthesizer workstations. Students will also learn to create recordings of their performances and compositions. Music written by students will be performed for the class or in the program's Fall and Spring concerts. Students who enjoy a challenge, a sense of accomplishment and are self-motivated will find this course fun and rewarding.

MUSIC 10: GUITAR (Acoustic)

Students will learn basic chord patterns in folk, pop and rock styles, rudimentary music theory, note-reading, tablature, rhythmic skills, basic finger-picking patterns, various left-hand techniques, and some forms of melodic/harmonic styles of guitar playing. Guitars will not be provided for classroom use, details on rental or purchase will be discussed in the first week of the program. *No previous musical experience is required*

CHORAL 10: CONCERT CHOIR *(Offered outside the timetable)*

This course will be a continuation of Choir 9, with increased emphasis on performance and the development of musical skills. Repertoire will be more challenging and will provide the opportunity for students to work in small ensembles and in solo activities. As with all music activities, members of this class should expect that part of their learning situation will involve a commitment to regular home practice and extra-curricular activities. Students will be required to attend all scheduled rehearsals and performances as part of the course expectations.

CHORAL 10: CHAMBER CHOIR *(Offered outside the timetable)*

Students enrolling in this course should have completed or are currently enrolled in Junior Concert Choir. Students should consult with the choir teacher at their school for specific admission requirements.

MUSIC 10: CONCERT BAND *(Offered outside the timetable)*

This course is a continuation of Band 9 with appropriate changes in level of repertoire, knowledge and skills. Students will begin to do work in small ensemble format as well as solo work, if desired. Students will be required to attend all scheduled extra-curricular rehearsals and performances as part of the course expectations.

MUSIC 10: JAZZ BAND *(Offered outside the timetable)*

Students will gain a general knowledge of jazz styles and interpretation, as well as the techniques and rhythms unique to jazz. Students will learn fundamental jazz improvisation skills. Instruments are: trumpet, trombone, saxophone (alto, tenor, bari) and rhythm section (piano, bass, drums, and guitar). All Jazz Band students must be registered in Concert Band as well. Please see your music teacher if you are interested in this course.

MUSIC 11: GUITAR (Acoustic)

Students will learn basic chord patterns in folk, pop and rock styles, rudimentary music theory, note-reading, tablature, rhythmic skills, basic finger-picking patterns, various left-hand techniques, and some forms of melodic/harmonic styles of guitar playing. The emphasis in the course is on ensemble playing. By the end of the course, students should be reading and playing at approximately the level of Grade One Royal Conservatory guitar. Guitars will not be provided for classroom use but details about renting or purchasing will be discussed

in the first week of classes. Some students who wish to can spend some of their class time learning about the compositional process for different styles of electronic music. This portion of the course will utilize computer/synthesizer equipment and appropriate software. Student compositions may be performed in public concerts.

CHORAL 11/12: CONCERT CHOIR (*Offered outside the timetable*)

Students in this course will explore very challenging and sophisticated vocal material. Small ensemble work will be made available to anyone who wishes to pursue this option more fully and solo opportunities will be readily available. As with all music activities, members of this class should expect that part of their learning situation would involve a commitment to regular home practice and extra-curricular activities. Students will be required to attend all scheduled extra-curricular rehearsals and performances as part of the course expectations.

CHORAL 11/12: CHAMBER CHOIR (*Offered outside the timetable*)

Students enrolling in this course should have completed or are currently enrolled in Junior Concert Choir. Students should consult with the choir teacher at their school for specific admission requirements.

MUSIC 11: CONCERT BAND (*Offered outside the timetable*)

In this course, students will continue their exploration of music repertoire, instrumental performance technique and small ensemble/solo work in addition to more advanced studies in theory and music history related to the repertoire studied. Students will be required to attend all scheduled extra-curricular rehearsals and performances as part of the course expectations.

MUSIC 11: JAZZ BAND (*Offered outside the timetable*)

This course will be an extension of Jazz Band 10 with students continuing to develop improvisational skills, learning basic arranging skills, and providing leadership within the ensemble. There will also be opportunity for students to do small jazz ensemble groups (duos, trios, quartets, etc.) within the structure of this course. This is a performance-oriented course and all students will be required to attend all scheduled extra-curricular rehearsals and performances as part of the course expectations. All Jazz Band students must be registered in Concert Band as well.

MUSIC 12: GUITAR 12 (Acoustic)

Students will explore an increasingly difficult repertoire of pieces, various finger picking patterns, alternate tunings, scales, modes, and styles of playing. The emphasis in this course is on individual and small-group practice and instruction. By the end of the course, students should be reading and playing at approximately the level of Grade Two Royal Conservatory Guitar. Guitars will not be provided for classroom use. Students will have the option of either beginning or continuing their study of electronic music. Continuing students will have the option of composing and/or arranging music for any of the performing ensembles in the school.

MUSIC 12: CONCERT BAND (*Offered outside the timetable*)

Band 12 students will continue the course of studies outlined in Band 11 and will be expected to provide a leadership role within the ensembles. As with all other Band classes, students will be required to attend all scheduled extra-curricular rehearsals and performances as part of the course expectations.

MUSIC 12: JAZZ BAND (*Offered outside the timetable*)

Jazz Band 12 provides an opportunity to develop jazz soloing techniques and to play in small ensembles. Students will be expected to take on a leadership role both musically and as group members. As with all music ensembles, students will be required to take part in all extra-curricular rehearsals and performances. All Jazz Band students must be registered in Concert Band as well.

MUSIC COMPOSITION & TECHNOLOGY 11/12

This course is a unique music composition class at Alpha, with a focus on traditional methods of composition, as well as the use of technology. This course is intended for students who have some background in a band program or private piano study for at least three years. Students will learn to explore and arrange sound to form compositions for both live instruments and computer generated sounds. Programs in the music lab include Cubase, Sibelius, and Band in a Box, used with synthesizer workstations. Students will also learn to create recordings of their performances and compositions. Music written by students will be performed for the class or in the program's Fall and Spring concerts. Students who enjoy a challenge, a sense of accomplishment and are self-motivated will find this course fun and rewarding.

ART COURSES



ART 8

Students explore a variety of materials in 2-D and 3-D image making, develop basic drawing skills and study the work of selected artists.

ART 9/10

Students explore a variety of materials, processes and techniques in 2-D and 3-D, and study artists who have worked in these areas. Emphasis will be placed on the development of personal imagery and a basic understanding of the elements and principles of design. A sketchbook is recommended.

STUDIO ART 11/12: DRAWING & PAINTING

Students explore a range of 2-D materials, technologies and processes as well as the influence of social, cultural, historical, political and personal context on artistic works. A sketchbook is recommended.

STUDIO ART 11/12: CERAMICS & SCULPTURE

Students explore a range of 3-D materials, technologies and processes such as clay, wire, papier-mâché, plaster and cardboard. The influence of social, cultural, historical, political and personal context on artistic works will also be investigated. It is highly recommended that students planning to take AP 3-D Studio Art 12 take this course. A sketchbook is recommended.

STUDIO ARTS 11/12: PRINTMAKING & GRAPHICS

Students work in a range of printmaking and graphic materials, technologies and processes. Students work in both the art studio and computer lab using technologies such as block-printing, mono-printing, Photoshop and Illustrator. Students will develop design skills through an understanding of the elements and principles. It is highly recommended that students planning to take AP 2-D Studio Art 12 take this course.

STUDIO ART 11/12: DRAWING & PAINTING – ENRICHED

This course is intended as an introduction to the course content and requirements for Advanced Placement 2D Design. Drawing and Painting Enriched is strongly recommended for those students looking to pursue a career in art/design/graphics/ and are planning to take Advanced Placement 2D Design in Grade 12. In this course, students will begin building their portfolios for submission to the AP board or for submission to post secondary institutions.

YEARBOOK 11/12

The Yearbook is a book whose average lifespan will be 40 years. Teamwork and responsibility are a must in this course. Each student must be prepared to dedicate more than just class time to the production of this historical document. In return, this course offers students valuable work skills and training in desktop publishing and design. Students will use Photoshop and InDesign, and learn about journalism, photography, photo editing, layouts, typography and colour theory. Highly motivated and organized students will have the opportunity to take on various leadership roles on the Yearbook Executive, including Co-Editor, Photo Archivist, Events Coordinator and Sales Manager. Because of the demands of meeting publishing deadlines, both attendance and punctuality are a must.

PHOTOGRAPHY 11

Students use photography to explore the elements and principles, as well as image development strategies. The influence of social, cultural, historical, political and personal context on photographic works will also be investigated. Basic Photoshop CC skills are developed. Students take regular walking field trips. It is highly recommended that students planning to take AP 2-D Studio Art 12 take this course.

PHOTOGRAPHY 12

Students build on knowledge and skills begun in Photography 11.

AP 2D DESIGN PORTFOLIO 12

Students who sign up for this course must have the drive and discipline to create a large body of high-quality work that shows sophisticated development of skills and ideas. Upon completion, students have an opportunity to receive post-secondary credits. Students will work in a variety of 2-D media: graphic design, typography, digital imaging, photography, collage, fabric design, illustration, painting, and printmaking. A variety of approaches such as: representation, abstraction, and expression as well as a focus on the elements and principles of art and design. It is highly recommended that students are enrolled in an art class for both semesters.

AP 3D DESIGN PORTFOLIO 12

Students who sign up for this course must have the drive and discipline to create a large body of high-quality work that shows sophisticated development of skills and ideas. Upon completion, students have an opportunity to receive post-secondary credits. Students will work in a variety of 3-D media such as recycled materials, cardboard, and ceramics. It is highly recommended that students are enrolled in an art class for both semesters.

ADVANCED PLACEMENT ART COURSES

AP courses are for both college bound and career oriented students. Students may choose from 2D or 3D Studio AP Courses. Students will be expected to work intensively with personal imagery developing 24 original quality images. These courses are for committed art students who wish to submit a portfolio for the Advanced Placement Exam. At the end of the year approximately 24 pieces of artwork will be submitted to the College Board Testing Center for college advanced placement credit. Cost: AP Exam, approximately \$120. Students should expect to take at least two years to create a portfolio.

CAREER PREPARATION PROGRAMS

CAREER & HEALTH EDUCATION 8/9

This is an unscheduled course offered through a series of topics integrated into curricular areas.

CAREER LIFE EDUCATION 10

This is a required course for graduation. It is designed to help students develop the skills they need to establish goals and make thoughtful decisions in the following areas: education planning, career development, global economic decisions, healthy decision making and relationships.

GRADUATION TRANSITIONS 12

This is a required course for graduation. All students will be enrolled in Graduation Transitions in their graduation year. Full details can be found at www.alphagradtran.wordpress.com. There are three (3) components to completing the graduation transitions requirement:

1. **PERSONAL HEALTH – Healthy Living Plan & Daily Physical Activity (DPA) Requirement**
All students in grades 10, 11, and 12 are expected to participate in a minimum of 150 minutes each week of moderate to vigorous physical activity. Students are responsible for tracking their DPA using one of the following tools: calendar, cellphone app (MyFitness Pal, etc.), or fitness monitor. Grade 12 students complete a personal healthy living plan which requires students to examine nutritional habits, exercise routines, and emotional wellness
2. **COMMUNITY CONNECTIONS - 30 Hours: Paid Work or Volunteer Experience**
Students must complete and submit paperwork documenting a minimum of 30 hours of work experience and/or community volunteer experience between grades 11 and 12.
3. **CAREER AND LIFE - Graduation Transition Portfolio and Interview**
Each graduating student must complete and submit a graduation transition portfolio assignment which requires students to research post-secondary schools, suitable careers, finances, health and wellness, and provide a current resume. In addition, each graduating student must participate in a Graduation Transitions Interview where students will reflect on their life so far and explain their future plans.

CAREER PREPARATION 11

Grade 11 students interested in taking the elective course Work Experience 12A the following year will select a Career Preparation (CP) focus area for grade 11, i.e. “CP Business & Applied Business.” Students can begin work experience in grade 11 to then complete in Grade 12.

WORK EXPERIENCE 12A

This elective course is designed to give students a real-life introduction to career exploration through individual student’s interests, passions and goals. In addition to career exploration, students review post-secondary options that can provide a more elevated work experience, resume writing, job search skills, and interview skills. As a requirement of this course, all students must complete 90 hours of work experience that begins in their grade 11 year, as well as completing a Career portfolio assignment. Students must be aware that work experience scheduling is flexible but may extend beyond regular school hours and/or days. Grade 12 students may choose to select a Work experience as an eighth course or in addition to their eight courses.

Youth Train in Trades

Burnaby School District's Industry Training programs provide Grade 11 and 12 students with the opportunity to develop entry level skills, theory, and industry standard training. While earning graduation credits, students are working toward level 1 technical training certification. In all the program options, students receive in-class training and work experience. Students can then choose to pursue work in the industry or a post-secondary education in their chosen career.

Program	Location	Total Elective credits
Auto Collision Repair Tech.	VCC	28
Auto Refinishing and Prep Tech.	VCC	20
Auto Service Technician	Cariboo Hill (Day 1)	20
Baker (Pastry Arts)	VCC (downtown campus)	24
Carpenter	Cariboo Hill (Day 1)	20
Construction Electrician	Burnaby Mountain (Day 1)	20
Hairstylist (2 years)	Alpha (Day 1)	40
Metal Fabricator	BCIT	20
Painter and Decorator	Finishing Trades Institute	4
Pipefitter	Piping Industry College of BC on Annacis island	TBA
Plumber	Piping Industry College of BC on Annacis island	4
Professional Cook	Burnaby Central (M-T afternoons)	28

Industry Connect

Burnaby schools offers **5** unique Industry Connect programs that prepares students for post-secondary programs and entry level work. Student learn hands on skills and develop a portfolio of skills that are entry level and industry-related. Each program includes 120 hours of work experience.

Program	Location	Total Elective credits
Film and Broadcast	Burnaby North (Day 1 afternoon)	16
Graphics/Media Arts	Byrne Creek (3 afternoons a week)	16
Health Sciences	Moscrop (3 afternoons a week)	16
Music Production and Technology	Burnaby North (Day 1 afternoon)	16
Robotics (Mechatronics)	Alpha (Day 1 afternoon)	16

Industry Certification

Burnaby schools offers 6 unique programs that provide students the opportunity to earn graduation credits, post-secondary credits and industry certification. These programs prepare students with hands on skills and entry level industry training. Some of these programs include 120 hours of work experience.

Program	Location	Total elective credits
CISCO Networking Academy	Burnaby South (Day 1)	20
DigiPen Gaming Academy- new	Cariboo Hill (enrolled at Cariboo)	TBA
Fitness Instructor	Burnaby South (every mornings)	20
Hotel and Event Management	Burnaby Mountain (3 afternoons a week)	16
Microsoft Office Specialist- new	Cariboo Hill (enrolled at Cariboo)	TBA
Palo Alto Cyber Security Academy- new	Cariboo Hill (Times TBA)	TBA

Youth Work In Trades

The Youth Work in Trades provides Grade 10, 11, and 12 students with a tremendous opportunity to receive a minimum of 480 hours of paid, on-the-job training while still in school. An apprenticeship involves a formal agreement between a student, the Industry Training Authority (ITA) and an employer/union whereby the student learns current skills and knowledge associated with a trade or occupation under the supervision of a qualified journey person.

District Programs Hosted at Alpha

Burnaby School District Hairdressing Program



The Burnaby School District Hairdressing Program is a two (2) year program. It offers an exclusive opportunity for secondary students to earn graduation credits and work toward apprenticeship level one technical training certification in the professional career of Hairdressing

Units of study include:

- Draping, shampooing, massaging
- Haircutting
- Hairstyling
- Hair colouring
- Salon business
- Professionalism
- Job skills
- Client relations
- Sciences related to the profession (anatomy, chemistry, hair and scalp disorders and diseases)
- Learn about professional products

- Support an apprentice pathway into the industry through work experience

Requirements:

- Grade 11 or 12 student
- Accumulation of 990 classroom hours over two years
- Minimum of 300 work experience hours in a salon

Upon successful completion of this program students will be eligible to continue on to Hair level 2, continuing to attain the ITA Standardized Red Seal recommendation for certification.

Robotics (Mechatronics)

The Robotics and Automation program offers students who aspire to become programmers, designers and/or engineers the opportunity to participate in a project-based technology program in mechatronics and manufacturing. It enables students to acquire up to 16 graduation credits. This program allows students to continue their focus and studies into a post-secondary institution. As part of the industry training program requirements, students will complete 120 hours of workplace experience in a related setting. This program is suited for students in grades 11 or 12, enrolled in Math, have a knowledge of physics, and exhibit a strong interest in designing and building robots, as well as an aptitude for working with computer hardware, software, and electronics.