



# GRADES 9 - 12 COURSE DESCRIPTION GUIDE

YALE SECONDARY SCHOOL

# GRADE 9 PROGRAM:

## **Career Education 9**

This course is a required course. You will not choose this course as one of your requests, it will be assigned to you. It will show on your grade 9 timetable as outside of the ordinary day but will not need to be attended during out of school hours. Career Education will be incorporated into the regular school day and is not offered as a separate course.

# ***ENGLISH LANGUAGE ARTS***

## **English 9**

Language is fundamental to thinking, learning, and communicating in all cultures. As students come to understand and use language more fully, they are able to enjoy the benefits and pleasures of language in all its forms. The English Language Arts program (9-12) provides students with opportunities for personal and intellectual growth through speaking, listening, reading, viewing, writing, and representing to make meaning of the world and to prepare them to participate effectively in all aspects of society. Students will experience the power of language by dealing with a range of texts. As they progress through the levels of English, students will encounter more complex texts, and should become more critical, creative and articulate in their own use of language.

\*\*\*At the end of the semester, English 9 students complete a school-based final assessment as well as a District Writing Assessment.

# ***SOCIAL STUDIES***

## **Social Studies 9**

(1750 to 1900)

The goal of Social Studies is to give students the knowledge and skills to be active, informed citizens who are able to think critically and communicate ideas effectively. Through their study of history, geography, economics, and culture, students will gain an understanding of the people, issues, and events that shape our world. The Social Studies curriculum also provides opportunities for students to learn about Canadian society, our democratic institutions, and the rights and responsibilities of Canadian citizens.

*Specifics in Social Studies 9*

- political, social, economic, and technological revolutions

- the continuing effects of imperialism and colonialism on indigenous peoples in Canada and around the world
- global demographic shifts, including patterns of migration and population growth
- nationalism and the development of modern nation-states, including Canada
- local, regional, and global conflicts
- discriminatory policies, attitudes, and historical wrongs
- physiographic features of Canada and geological processes

# ***MATHEMATICS***

## **Workplace Mathematics 9**

Prerequisite : Teacher recommendation. A scientific calculator (with a fraction key ) is required.

This course is best suited to students who have had challenges in understanding Mathematics. The purpose of this course is to fill in gaps of learning that have taken place, and to provide a safe environment to build the confidence of these struggling students. These students may then return to the foundations stream by taking Foundations of Mathematics 9 or they may continue to Apprenticeship and Mathematics 10.

Topics covered in this course include basic number operations, integers, fractions, proportions, conversions, percents, basic algebra and measurement.

## **Mathematics 9**

**Prerequisite :** At least a Developing grade in Math 8 OR teacher recommendation. A scientific calculator is required.

Topics covered in this course are Rational Operations, Polynomial Operations, Factoring, Algebraic Solving, Co-ordinate Geometry, 2D Measurement and Financial Literacy.

# ***SCIENCE***

## **Science 9**

Science 9 reinforces and extends the core concepts of Science 8. Chemistry 9 extends students' knowledge of the periodic table, chemical changes, and writing chemical formulas. Biology 9 focuses on the cell, including units on cell structure and processes, and reproduction. Physics 9 includes a laboratory study of electrical charge, current, and circuitry. In addition, Earth Systems 9 focuses on how the biosphere, geosphere, hydrosphere and atmosphere are interconnected.

# ***PHYSICAL EDUCATION***

Classes are held in the main gym, small gym, weight room and classroom. All students are expected to wear suitable clothing for all activities. Gym strip is available at nominal cost. All students are expected to participate on a regular basis, the only exceptions being those who have significant injuries and/or medical excuses provided by a physician. Assessment will be based upon participation, fair play, completion of assignments and leadership.

## **Physical Education 9 – boys, girls, or co-ed**

Yale's Physical Education program utilizes carefully selected activities to provide students the opportunities to develop:

- a) knowledge and understanding of principles of movement, and the relationship of exercise to personal well-being
- b) physical skills
- c) physical fitness
- d) social skills
- e) attitudes and appreciation that will encourage participation and enjoyment of physical activity, fitness, quality performance and a positive self-concept and respect for others.

# ***APPLIED SKILLS***

## **Food Studies 9**

Foods 9 is designed to spark an interest in food studies and develop the knowledge, skills and attitude necessary to prepare nutritious, tasty and attractive foods in a cost and time effective manner. The units covered include foundational cooking skills, baking basics, nutrition & health, additives & local eating, seasonal cooking and international cuisines.

## **Introduction to Computers 9**

Students will be introduced to a variety of topics in this fun and flexible course. The course will cover the following:

- basic web page design
- operating systems such as Windows and Linux
- installing software
- creating a virtual computer using 'open source' software
- introduction to JavaScript
- basics in creating interactive websites

You should take this course if you are interested in careers that focus on computer and technology use, such as the information technology sector, or engineering. This course will also help develop your analytical skills which would be very helpful for Science and Math.

## **Metalwork 9**

This course covers basic metalwork skills. Students will use a wide variety of tools and machines to cut, weld, grind, braze, and form metal. Students will explore hand tools as well as ARC welding, MIG welding, gas welding, flame cutting, CNC plasma cutting, forging, abrasive cutting, sterling silver jewelry casting, drilling, and lathe work. Students will work toward the creation of a project of their own design.

## **Textiles 9**

If you are just learning to sew or already have a foundation in sewing this course is for you! This newly designed course is offered to those students interested in designing and making apparel and accessories. Students are encouraged to explore a variety of techniques, basic hemming to more advanced alterations, using a pattern and fabric choice. You will learn about design and how to make it work for you, then apply it as you create and sew your own design. You will have choice in all projects that will suit you, your lifestyle, and skill level.

## **Woodwork 9**

This course offers experience in the wood shop and is an introduction to wood product design and manufacturing. Skills will be developed in hand and machine tool operation. Students will complete assigned projects as well as an individually developed project. Projects may include wood turnings, cutting boards, mantle clock, side tables, jewelry boxes, and other student designed projects

## **Women in Tech 9**

This course is open to grade 9-12 students. This is an introductory course that will introduce students to metal work, carpentry, electrical, plumbing, automotive maintenance and computer-controlled machines (CNC). Being a project centered course, students will get to make a variety of projects. Some project examples are jewelry, candle holders, picture frames, bowls, goblets, jewelry boxes, CNC made signs, vehicle oil change and basic maintenance.

\*\*Students will learn about BC's apprenticeship system and trades related careers.

# ***FINE ARTS***

## **Art 9**

Are you creative? Do you like to get your hands dirty? Do you like to have fun? Then Art 9 is for you. In Art 9, you will learn to express yourself using a wide variety of materials from drawing to painting, from graphic design to clay. If you are considering a career that involves any kind of creativity, then Art 9 is the place to start.

## **Drama 9**

This is a course that focuses on developing self-confidence, self-awareness, and the ability to work and communicate with others through a variety of acting techniques. Activities in this course will help to strengthen the student's powers of concentration and observation. Students will develop their skills in tableau, voice, physical comedy, improvisation, script work, and playwriting. Enthusiasm and self-discipline are necessary for success in this course. Evaluation is based on class participation, written assignments and performance. No prior acting experience is required.

## **Guitar 9-11** \*\*Students may only take Guitar once.\*\*

For students with little or no previous guitar experience. This is a beginner guitar course designed for students who wish to learn to play guitar. The course content will include basic note reading, chord construction and chording patterns.

**\*Students must bring their own acoustic or classical guitar.**

## **Musical Theatre 9 -12**

Yale Musical Theatre is a course dedicated to building well rounded performers and technicians with a passion for the stage. Our performances include acting, singing, dancing, and professional level production elements such as sets, lighting, sound, and costumes. Members in this class will be a part of both the cast and crew. All lead roles will require auditions. There will be a public performance at the end.

# ***MODERN LANGUAGES***

## **French 9**

Recommendation: French 8

*This is an introductory course, so students with French Immersion or Francophone backgrounds should enroll in a more advanced course (ask your counsellor)*

French is a beautiful and romantic language as well as an official language of Canada. In French 9, we offer students the opportunity to begin learning the basic language skills (reading, writing, speaking, and listening), while being introduced to unique Francophone cultures across the globe. French is not just spoken in France and in Quebec, it is also a national language in many African countries as well as other locations in Europe and across the world. Students will be able to introduce and describe themselves, their family, their friends, and their preferences. They will be able to ask and answer various questions as well as simply support their answers. Students in this course will take an active role in learning the French language.

## **Spanish 9**

Did you know that Spanish is the second- most widely spoken language in the world with 400 million native speakers?

Spanish 9 is an exciting course for beginners looking to expand their language abilities and broaden their future career and travel opportunities. In this course, we offer students the opportunity to learn basic grammar and develop the four language skills of speaking, listening, basic reading and writing as well as an appreciation of Latino culture. Students in this course will take an active role in learning the Spanish language as it is a communicative course.

## ***OTHER ELECTIVES***

### **Student Leadership 9**

The purpose of this course is to introduce theories of leadership and practice leadership skills. Students will be involved in planning school-wide events as well as becoming involved with community service. This course will focus on developing student's communication skills, organizational skills, critical thinking skills as well as becoming more socially and globally aware.

## ***EXTENDED DAY OPTIONS***

**\*\*THESE CLASSES ARE OFFERED BEFORE OR AFTER SCHOOL AND ARE CHOSEN IN ADDITION TO THE 8 INSIDE THE TIMETABLE CLASSES.**

### **Concert Band 9**

Open to students who have completed Band 8 or contact Ms. Sargent. Band 9 further develops technical skills as they relate to more challenging music from the band repertoire. There will be many opportunities for performances at concerts, festivals and trips. Attendance at all rehearsals and performances is mandatory.

### **Jazz Band 9**

Co-requisite: Concert Band 9

Further development of technical skills in the area of Big Band Jazz. Instrumentation is the same as in Grade 8. This is an extended day class. Attendance at all rehearsals and performances is mandatory.

### **Concert Choir 9**

Open to all students who wish to sing. Students do not need previous singing experience of any kind. Students will further their understanding of the vocal mechanism and basic music theory skills. The emphasis of this course is the performance of music in a variety of styles. Attendance at all rehearsals and performances is mandatory.

## **Chamber Choir 9** \*BY INVITATION ONLY\*

This is an advanced choir for auditioned singers performing as a select ensemble. Students will rehearse and perform regularly. There may be rehearsals outside of class time that, with prior notice, you may be required to attend. There will be mandatory performances (ex: Christmas Concert, Kiwanis Festival, Choral Day) and there may also be opportunities for travel and optional fundraising. Students must be enrolled in Yale Concert Choir. Chamber Choir is open to exceptionally strong singers by audition. The ability to read music and to part-sing is a prerequisite. Auditions are approximately 10 minutes. You will be asked to sing "O Canada" in the key of your choice. You will also be asked to sing a series of vocal exercises and to sight-read an excerpt.

# ***REQUIRED COURSES FOR GRADE 10***

## ***ENGLISH Language Arts – choose 1***

### **Literary Studies & Composition 10**

(Divided into two modules)

English 10 builds on the key concepts learned in English 9. Language is fundamental to thinking, learning, and communicating in all cultures, in a wide range of forms. Students will be provided with opportunities to experience the power of language through a variety of texts of increasing complexity, and for personal and intellectual growth through speaking, listening, reading, viewing, writing, and representing to make meaning of the world and to prepare them to participate effectively in all aspects of society. All students will complete Literary Studies 10 (2credits) and Composition 10 (2 credits) for a total of 4 credits.

### **Literary Studies and Composition 10 Honours**

(Divided into two modules)

By Teacher Recommendation

English 10 Honours builds on the key concepts learned in English 9 and offers a combination of enriched English 10 content. With a focus on classical and mediaeval literature, students will explore a range of texts, and engage in wide variety of activities, including literary writing, discussions, presentations, visual responses, and creative work. While this course is fast paced, dedicated and interested students will have a lot of fun. In completing this course, students will receive credit for Literary Studies 10 and Composition 10. This course is designed as a steppingstone into 11 honours and AP 12.

### **English First Peoples Literary Studies & Composition 10**

\*\*This course meets the Indigenous-Focused Course Graduation Requirement.

English First Peoples 10 builds on the key concepts learned in English 9. The English First Peoples 10 course provides students with an opportunity to explore literature and stories of North American Indigenous peoples and engage more deeply with the First Peoples Principles of Learning. The course will combine elements from



at least two modules: Literary Studies and Composition. English Language Arts courses (9-12) provide students with opportunities for personal and intellectual growth through speaking, listening, reading, viewing, writing and representing to make meaning of the world and to prepare them to participate in society as engaged citizens.

## ***SOCIAL STUDIES***

### **Social Studies 10**

The goal of Social Studies is to give students the knowledge and skills to be active, informed citizens who are able to think critically and communicate ideas effectively. Through their study of history, geography, economics, and culture, students will gain an understanding of the people, issues, and events that shape our world. The Social Studies curriculum also provides opportunities for students to learn about Canadian society, our democratic institutions, and the rights and responsibilities of Canadian citizens.

#### *Specifics in Social Studies 10*

- Development and function of Canadian and other political institutions, including First Peoples governance
- Changing conceptions of identity in Canada and Canadian autonomy
- Domestic conflict and co-operation
- Discriminatory policies and injustices in Canada and the world
- International conflicts and co-operation
- Human–environment interaction
- Economic development and Canada’s role in a global economy

## ***MATHEMATICS – choose 1***

### **Foundations of Math & Pre-Calculus 10**

Prerequisite : An Extending grade in MA 9 OR teacher recommendation. Scientific calculators TI-83PLUS or TI-84 are needed for this class. (note: for further honours courses a graphing calculator is required.)

This pathway is designed to provide students with the mathematical understandings and critical-thinking skills identified for post-secondary studies in programs that DO NOT require the study of theoretical calculus. Topics covered in this course include: Exponent Rules, Polynomial Operations, Factoring, Co-ordinate Geometry, Relations and Functions, Solving Systems of Linear Equations, Real Number Systems, Trigonometric Ratios and Financial Literacy.

### **Foundations of Math & Pre-Calculus 10 Honours**

Recommendation: At least a Proficient grade in MA 9 OR teacher recommendation. A scientific calculator is required.

This pathway is designed to provide students with the mathematical understandings and critical-thinking skills identified for entry into post-secondary programs that require the study of theoretical calculus. Topics covered

in this course include: Exponent Rules, Polynomial Operations, Factoring, Co-ordinate Geometry, Relations and Functions, Solving Systems of Linear Equations, , Real Number Systems, Trigonometric Ratios and Financial Literacy.

## **Workplace Math 10**

Recommendation: any Math 9 or teacher recommendation. A scientific calculator (with fraction key) is required.

This pathway is designed to provide students with the mathematical understandings and critical-thinking skills identified for entry into the majority of trades and for direct entry into the work force.

Topics covered in this course include: Measurement, Conversions, 2D and 3D Measurements, Similarity, Trigonometry, Angle Geometry and Constructions, Consumer Decisions, Wages, and the Algebraic Manipulation of Formulas.

## ***SCIENCE***

### **Science 10**

The four core units of Science 10 are Biology, Chemistry, Physics and Earth & Space Science. In Biology, students learn about DNA structure, DNA mutations, genetics and evolution, while addressing the big idea that genes are the foundation for the diversity of living things. In Chemistry students expand on the basic ideas learned in grade 8 and 9 and apply their Science 9 knowledge to chemical equations and chemical reactions. The big idea for Chemistry is that chemical processes require energy change as atoms are rearranged. In Physics, the focus will be on the big idea of how energy is conserved and how its transformation can affect living things and the environment. The Earth and Space Science section will focus on the big idea of how the formation of the universe can be explained by the Big Bang Theory.

### **Science 10 Honours**

This course emphasizes independent inquiry for academic students with a strong foundation in math and science. There is a focus on developing critical thinking and reasoning skills and promoting social responsibility. The honours course is similar to the regular science program but moves at a faster pace with a stronger emphasis on Inquiry-based laboratory work. Enrichment areas include quantum models of the atom, periodic trends, mole conversions, and other advanced chemistry concepts, as well as additional curricular content in biology and physics. Five unit inquiry projects are part of the assessment in this course.

## ***PHYSICAL EDUCATION***

Classes are held in the main gym, small gym, weight room and classroom. All students are expected to wear suitable clothing for all activities. Gym strip is available at nominal cost. All students are expected to participate on a regular basis, the only exceptions being those who have significant injuries and/or medical excuses provided by a physician. Assessment will be based upon participation, fair play, completion of assignments and leadership.

## **Physical Education 10 – choose 1**

Yale's Physical Education program utilizes carefully selected activities to provide students the opportunities to develop: a) knowledge and understanding of physical and social skills, physical fitness, principles of movement and the relationship of exercise to personal well-being b) physical skills c) physical fitness d) social skills and e) attitudes and appreciations that will encourage participation in AND enjoyment of physical activity, fitness, quality performance, a positive self-concept and respect for others. Students will choose from the following options: Girls, Boys or Co-Ed

## ***CAREER PLANNING***

### **Career Life Education 10**

During this class students will complete a series of online self-assessments, which will help identify skills, personal attitudes, values and interests. Guidelines to help with essential employability and career skills and abilities will also be covered. Students will learn how to identify post-graduation opportunities such as schools, programs, tuition costs, residency options and scholarships etc. We will look at the different labour laws and safety protocols using guides like the Employment Standards Act, WorkBC, WHMS and WorkSafeBC.

## ***ELECTIVES***

**(One Fine Art OR an Applied Skills course (4 credits) must be taken in grades 10-12 as part of the graduation program in BC)**

### ***FINE ARTS***

#### **Art Studio 10 or Art Studio 10 Honours**

Similar to Art 9, students will have the opportunity to begin or continue to develop their skills in the following areas: drawing, painting, printmaking, sculpture and design. Honours 10 is designed for students who wish to develop their skills in art at an accelerated level. The course will parallel Art 10 with an addition of extra expectations. A minimum average of 75% must be maintained in order to remain in Honours Art 10.

Career and Life Links for Art classes: Art teaches the valuable skill of creative problem solving. More than ever, employers are looking for innovative, creative thinkers. Artists find careers in film, television, video gaming, web-design, fashion, commercial design, graphics and many other industries. Making art is a wonderful outlet for self-expression and a lot of fun.

## Drama 10

This course builds on many of the skills learned in Drama 9. It reviews the rules of theatre and explores vocal recording, acting for the camera, stage combat, improvisation, script work and social issues through the development of a documentary. There will be a focus on acquiring some basic knowledge about technical theatre as a performing art. We will explore lighting, set design, sound and costumes. Evaluation is based on class participation, written assignments and performance. Prior acting experience is helpful but not necessary.

Career and Life Links for Drama: You should take Drama and Theatre Performance if you are interested in any of the following careers – radio or TV announcing, acting and/or directing on film, stage or television, public speaking or politics, sales and marketing, video game voiceovers, teaching drama, storytelling and playwriting, audiobook narrator, theatre lighting or sound technician.

## Guitar 9-11

For students with little or no previous guitar experience. This is a beginner guitar course designed for students who wish to learn to play guitar. The course content will include basic note reading, chord construction and chording patterns.

**\*Students must bring their own acoustic or classical guitar.**

Career and Life Links for Music: Students wishing to pursue careers and higher education in music are encouraged to take these courses. Students learn to analyze complex ideas, work within a group cooperatively, and learn practice skills necessary for both academic and musical success. Careers related to music include, but are not limited to entertainment law, music education, performance, composition, music history, library studies, and recording arts.

## Musical Theatre 10

Yale Musical Theatre is a course dedicated to building well rounded performers and technicians with a passion for the stage. Our performances include acting, singing, dancing, and professional level production elements such as sets, lighting, sound, and costumes. Members in this class will be a part of both the cast and crew. All lead roles will require auditions. There will be a public performance at the end.

Career and Life Links for Drama: You should take Drama and Theatre Performance if you are interested in any of the following careers – radio or TV announcing, acting and/or directing on film, stage or television, public speaking or politics, sales and marketing, video game voiceovers, teaching drama, storytelling and playwriting, audiobook narrator, theatre lighting or sound technician.

## Photography 10

In this course students will learn the fundamentals of digital photography. They will learn how to operate their camera's functions and settings. Students will utilize exposure, lighting and lenses. They will practice different photography compositions and techniques as they develop their eye to see the world like a photographer.

Career and Life Links: Students who enjoy or are considering a career in Photography, Digital Art, or Broadcasting will benefit from this course.

## **Studio Arts 3D 10 (Ceramics)**

3D Art 10 is a hands-on ceramics course. In this course students will learn the basics of hand building functional and sculptural pottery. Students will learn and develop their skills with the slab, coil and pinching techniques. Students will also practice making forms on the potters' wheels. This is the course for students that are adventurous and like to try new things. There is no prerequisite to take this course.

## ***APPLIED SKILLS***

### **Computer Programming 11**

*(Introduction to Programming in JavaScript)*

Pre-requisite: None (Students do not need to have any previous computing experience)

This is an introductory level course in computer programming. We will investigate and learn about the very popular JavaScript programming language, which powers the internet. No previous computer experience is necessary, and students will find this course to be quite flexible. The course will cover the following:

- create basic web pages
- JavaScript basics
- develop interactive websites
- variables and loops
- programming logic, structure, and functions
- basic Object-Oriented Programming concepts

Career and Life Links: You should take this course if you are interested in careers that focus on computer and technology use, such as the information technology sector, or engineering. This course will also help develop your analytical skills which would be very helpful for Science and Math.

### **Entrepreneurship & Marketing10**

Entrepreneurship & Marketing 10 is an introductory business course. These include business ethics, economics, finance, marketing, and entrepreneurship. Entrepreneurship & Marketing 10 introduces students to the world of business within the local and global community and the various opportunities within it. While taking this course, students will learn basic marketing & entrepreneurial concepts that will help them engage in today's constantly evolving business world.

Career and Life Links: This course is one to consider if you are interested in being your own boss one day, if you have always wanted to open up your own business, or if you are just curious about exploring the world of Business.

### **Food Studies 11**

This course is open to grade 10 & 11 students. The intent of Foods 11 is to help students develop self-reliance and independence, while teaching skills necessary for a hearty and healthy life. Exploring food, an essential part of life, also allows you to develop creativity. Plus, an understanding of nutrition will help develop skills to

improve your quality of life and sense of well-being. Units of study will cover breakfast, lunch, and international dinners from Greece, Italy, Mexico, and more.

Career and Life Links: If you are interested in studying nutrition, doing cook/chef training or working in the restaurant industry after high school, this is a course to consider. Above all, Foods 11 will develop your personal cooking skills for life after you leave home.

## **Metalwork 11**

This course is open to students in grade 10, 11, or 12. Students will explore fabricating, machining and welding. Student projects could include lathe work, milling machine work, and welding and fabricated projects. In addition to foundation fabricating and machining skills, students will have an opportunity to explore CNC plasma cutting and lost wax casting.

Career and Life Links: This is a great course for anyone who wants to continue on to Automotive 12 or Metalwork 12. Many skills can prepare students for an entry level labour job in industry and for basic metalwork at home. Those interested in the creative nature of metal art may also find this course valuable. This course also prepares students for the Abbotsford School District welding career program.

## **Nutrition and Cooking for Athletes 11**

Students in this course will explore the types of nutrition that support an athletic lifestyle and the physical needs of an athlete engaging in performance training. They will evaluate their current diets, assess their dietary needs based on their training/game schedules, and research foods/recipes that support athletes in single—and multi-sport contexts. As part of their coursework, students will research recipes, source ingredients, and prepare dishes.

## **Power Mechanics 10**

Power Mechanics 10 is a course for grade 10 students hoping to enroll in mechanics classes in their grade 11 and 12 years. This course introduces students to fundamentals of the internal combustion engine, basic automobile theory and maintenance and current trends in alternate energy theory. Students will gain experience that will help them in understanding expectations and the work ethic required for participation in Automotive Technology 11 and 12 and in trade schools.

Career and Life Links: This is a great course for anyone thinking of taking other mechanics courses. If you want to learn to make your lawnmower start on one pull, this course is for you!

## **Textiles 10**

If you are just learning to sew or already have a foundation in sewing this course is for you! This course is offered to those students interested in designing and making apparel and accessories. Students are encouraged to explore a variety of techniques, basic hemming to more advanced alterations, using a pattern and fabric choice. You will learn about design and how to make it work for you, then apply it as you create and sew your own design. You will have choice in all projects that will suit you, your lifestyle, and skill level.

Career and Life Links: Interested in a career in fashion or art? Consider this course!

## Women in Tech 10

This course is open to grade 9-12 students. This is an introductory course that will introduce female students to metal work, carpentry, electrical, plumbing, automotive maintenance and computer-controlled machines (CNC). Being a project centered course, students will get to make a variety of projects. Some project examples are jewelry, candle holders, picture frames, bowls, goblets, jewelry boxes, CNC made signs, vehicle oil change and basic maintenance.

\*\*Students will learn about BC's apprenticeship system and trades related careers.

## Woodwork 10

This course gives grade 10 students a more in- depth study of woodworking techniques and practices. Students will be involved in the planning, design and production of woodworking projects. Effective planning and problem solving will be emphasized.

In addition to skill development and project work, students will cover units in materials technology, mass production techniques and a woodworking career survey.

Career and Life Links: This is a great course to prepare for further courses in woodwork as well as anyone wishing to gain the skills and confidence to build basic woodwork projects. Some of the skills learned could be used at home to perform home repair.

## OTHER ELECTIVES

\*\*this class does not meet the graduation requirement for a Fine Arts or Applied Skills credit but is still a 4 credit class\*\*

### Student Leadership 10

Recommendation: Teacher Permission

The purpose of this course is to introduce theories of leadership and to practice leadership skills. The course will be divided each term into lessons of theory and classes of practical application. The Leadership Program at Yale will reflect the belief that students want to become meaningfully involved in the school and the community.

Career and Life Links for **Student Leadership**: The leadership program develops communication, problem solving, public speaking and team building skills. All are essential for the world of work and further study.

## MODERN LANGUAGES

### French 10

Recommendation: A "Proficient" or higher in French 9

*This is a second-year course for beginners in French. Students with recent French Immersion or Francophone backgrounds could enroll in a more advanced course, depending on the situation (ask your counsellor)*

This course builds on the key concepts and language skills (reading, writing, speaking, and listening) learned in French 9. In this course, various themes and stories are used to introduce vocabulary, grammar, verbs, and

francophone cultures. Students will learn to better communicate about various topics using the past, present, and future tenses.

## **Spanish 10**

Recommendation: A “Proficient” or higher in Spanish 9

Spanish 10 is a continuation of Spanish 9, and it allows students to build on their language skills in order to participate in a variety of communicative activities. The course is based on a series of stories that will teach the language. Students will apply vocabulary from the stories to answer personalized questions and to read/respond to the texts. The four elements of a language (listening, speaking, reading and writing) will be practiced throughout the course. Exposure to elements of Hispanic culture (music, geography, customs, etc.) may also occur at various times during the course. Most of the instruction will be in Spanish, and students are expected to communicate with the teacher and classmates “en español.”

Career & Life Links for Languages: Taking language classes helps develop effective communication skills and encourages an awareness of cultural differences, which is invaluable in our multicultural world. Also, for an advantage in the global job market, having learned any additional language is a benefit. In addition to English, the head of a company who knows French, or a salesperson who knows Spanish can work successfully with many more people and in many more places than someone who knows only one language.

## ***EXTENDED DAY OPTIONS***

\*\*THESE CLASSES ARE OFFERED BEFORE OR AFTER SCHOOL AND ARE CHOSEN IN ADDITION TO THE 8 INSIDE THE TIMETABLE CLASSES.

### **Concert Band 10** \*counts as a Fine Arts elective

Recommendation: minimum two years of instrumental experience or see Ms. Sargent

The main emphasis is on playing and developing technical skills on your instrument and enjoying more challenging repertoire from the band literature. Many performance opportunities will be offered at concerts, festivals and trips. Attendance at all rehearsals and performances is mandatory.

### **Concert Choir 10** \*counts as a Fine Arts elective

Open to all students who wish to sing. Students do not need previous singing experience of any kind. Students will further their understanding of the vocal mechanism and basic music theory skills. The emphasis of this course is the performance of music in a variety of styles. Attendance at all rehearsals and performances is mandatory.

### **Jazz Band 10** \*counts as a Fine Arts elective

Co-requisite: must be enrolled in Concert Band

Emphasis will be on developing technical skills in the area of Big Band Jazz. All kinds of jazz music will be explored. The instrumentation for this class is saxophone, trumpet, trombone, drums, piano, electric guitar, bass guitar,



and double bass. Students must have a minimum of two years playing experience. Attendance at all rehearsals and performances is mandatory. So, if you enjoy listening to music and are interested in the roots of it this course is for you!

## **PE Leadership Intramurals 10**

\*\*This class takes place at lunch time and is not part of the regular day.

This is a course in which students can earn 4 credits for helping run lunchtime intramurals. Students are expected to help in the promotion, organization, set-up, take-down, scorekeeping and refereeing of the various sporting events. Events may include volleyball, soccer, basketball, badminton, pickleball, handball and floor hockey.

# ***REQUIRED COURSES***

GRADUATION REQUIREMENT: GRADE 11: ONE LANGUAGE ARTS 11

GRADE 12: ONE LANGUAGE ARTS 12

## ***ENGLISH LANGUAGE ARTS***

### **English 11**

Career and Life Links: This course will help you develop your ability to think critically and organize and communicate your thoughts in a variety of written formats; it will help you build skills to write with a more professional focus. Take this course to further develop your professional and academic writing abilities.

Literary Studies allows you to delve deeply into literature. You can explore specific themes, periods, authors, or areas of the world through in a variety of genres (fiction, non-fiction, film, documentaries). You will increase your literacy skills through close reading of appropriately challenging texts and further develop higher-level thinking and learning skills.

Composition is designed to support you as you refine, clarify, and develop confidence in your written communication. You will read and study compositions by other writers and be exposed to a variety of styles and genres as models for the development of their writing: narrative, expository, descriptive, persuasive, and opinion pieces. You will create, write, and publish original and authentic pieces for a range of purposes and real-world audiences, following the writing process - drafting, reflecting, editing, and revising. You will also learn how to cite sources, consider the credibility of evidence, and evaluate the quality and reliability of the source. Throughout the course, you will build a body of work that demonstrates your writing skills.

## **English First Peoples Literary Studies & New Media 11** (EFP Literary Studies & New Media 11)

\*This course meets the Indigenous-Focused Course grad requirement

Career and Life Links: English First Peoples Literary Studies and New Media will help you develop communication skills while focusing on a variety of genres in modern and emerging formats. You will also develop inquiry skills that will help you develop goals, set and follow schedules, and produce large projects you can be proud of. If you want to explore a variety of different techniques and genres including, and beyond, the standard prose and poetry formats, this may be the course for you.

This course is a program of studies designed to teach critical thinking and reading, and communication skills, with a focus on Indigenous texts, perspectives and knowledge. Genres to be studied include conventional forms like novels, poetry, and short stories, as well as graphic novels, films and video games. At the end of the semester, students will have the opportunity to create a major product based on their interests. Coursework is aimed at providing students with a set of skills vital for success in an increasingly complex digital world by affording numerous opportunities to demonstrate understanding and communicate increasingly sophisticated ideas through a wide variety of digital and print media.

## **English First Peoples (EFP) Literary Studies 11 Honours**

\* this course meets the indigenous focused course grad recommendations

Career and Life Links: English First Peoples Literary Studies and New Media will help you develop communication skills while focusing on a variety of genres in modern and emerging formats. You will also develop inquiry skills that will help you develop goals, set and follow schedules, and produce large projects you can be proud of. If you want to explore a variety of different techniques and genres including, and beyond, the standard prose and poetry formats, this may be the course for you.

Recommendation: English 10 H or teacher recommendation

English First Peoples Literary Studies 11 allows you to delve deeply into literature through Indigenous texts from around the world, focusing on memoir and personal writing, poetry, and short stories. You will increase your literacy skills through close reading of challenging Indigenous texts, develop higher-level thinking and writing skills, and explore Indigenous themes and literary traditions. By the end of this course, you will understand the deep links between storytelling and identity. Earn your Indigenous course credit while preparing for English Studies 12 AP!

## **English First People's 12** \*\*This course meets the Indigenous-Focused Course Graduation

Career and Life Links: The ability to effectively communicate in a variety of ways and to process and critically assess the information you encounter will be useful in every aspect of your life; this course will help you develop these competencies.

First People's 12 is a grade 12 English course that looks at the literature and stories of local Indigenous peoples and Indigenous peoples around the world; texts studied will include graphic novels, films, poetry, short stories, and non-fiction. Using the First People's Principles of Learning we will look at a variety of storytelling genres to understand the varied ways Indigenous peoples represent their pasts, presents, and futures, the common themes addressed by Indigenous creators from around the world, and the importance of storytelling to our identities. Students will be provided with opportunities for personal and intellectual growth through speaking, listening, reading, viewing, writing, and representing to make meaning of the word and to prepare them to

participate effectively in all aspects of society. Students will leave this course with an appreciation for the richness of Indigenous literary traditions.

## English Studies 12

Career and Life Links: The ability to effectively communicate in a variety of ways and to process and critically assess the information you encounter will be useful in every aspect of your life; this course will help you develop these competencies.

Language is fundamental to thinking, learning, and communicating in all cultures. As students come to understand and use language more fully, they can enjoy the benefits and pleasures of language in all its forms. Students will be provided with opportunities for personal and intellectual growth through speaking, listening, reading, viewing, writing, and representing to make meaning of the word and to prepare them to participate effectively in all aspects of society. Students will experience the power of language by dealing with a range of texts. In English Studies 12, students will encounter more complex texts and become more critical and analytical of how others use language, as well as being more creative and articulate in their own use of language. All students are required to take an English Studies 12 or First Peoples English 12 for graduation.

## AP Literature & Composition 12 - 8 credits (AP Lit 12 + English Studies 12)

Recommendation: Honours Literary Studies 11

Entrance to this course is by permission of the instructor, based on English 10 and 11 marks and teachers' recommendations.

Career and Life Links: AP English offers students critical thinking skills for life. Many colleges and universities grant first year credit to students receiving an acceptable score on the advanced placement exam, which is written in May. Students will also be encouraged to challenge the AP Language and Composition Exam. The AP exam score does not count toward the final course mark.

AP English Studies 12 is a challenging and ambitious program offered to highly motivated and successful students. It encompasses both the requirements of English Studies 12 and Advanced Placement Literature and Composition. This course provides students with reading and writing experiences that equal those of a first-year university course and engages students in the careful reading and critical analysis of a broad range of literature. Students develop critical standards for interpreting the effects writers create by means of the artful manipulation of language.

## CAREER LIFE CONNECTIONS 12 and “CAPSTONE”

GRADUATION REQUIREMENT FOR ALL GRADE 12s

All Grade 12 students need to choose the Career Life Connections 12 class. This course is a mandatory requirement for High School Graduation in the province of BC. Career Life Connections 12 will use “myblueprint” to create a transition plan that will help students set goals for post-high school education and career pursuits.

In addition, all grade 12 students will be expected to create and present a culminating “Capstone” project that demonstrates the student’s learning using an area(s) of interest as the basis of the project.

# **SOCIAL STUDIES**

GRADUATION REQUIREMENTS FOR GRADES 11 & 12: ONE SOCIALS 11 OR 12

## **20th Century World History 12**

Career and Life Links: This course is recommended for students interested in research-oriented careers such as journalism, international relations, law, and the civil service. Also relevant for those considering teaching.

20<sup>th</sup> Century World History 12 studies significant events of the 20th Century. Students will use historical thinking skills to study history of the 20th century including conflict and its aftermath, ideological movements, revolutions and independence movements, as well as social, political, economic, and cultural change. Strong reading and writing skills are required; students will be expected to complete a major research paper in the course. It is strongly recommended that students wishing to enroll in this course obtain at least a C+ in Social Studies 11 and English 11.

## **AP European History 12**

8 credits (AP Euro 12 + 20th Century History 12) Recommendation: Literary Studies 11 Honours strongly recommended

\*\*\*Entrance to this course is by permission of the instructor, based on performance on previous Social Studies courses, and teachers' recommendations.

This course is designed to be equivalent to a first-year university/college European history course. The course will cover European history from 1450 to the current time. Students cultivate their understanding of European history through analyzing historical sources and learning to make connections and craft historical arguments as they explore course concepts such as interaction of Europe and the world; economic and commercial developments; cultural and intellectual developments; states and other institutions of power; social organization and development; national and European identity; and technological and scientific innovation. Students who take this course will develop higher-level thinking and writing skills that are at a university level. If students score well on the American College Board examination in early May, most universities will provide credit for an equivalent first year history course. Students will receive credit for AP Euro 12 and 20th Century History 12 (8 credits).

## **BC First Peoples 12** \*\*This course meets the Indigenous-Focused Course Graduation Requirement.

BC First Peoples 12 focuses on the diversity of the cultures of British Columbia's Indigenous peoples emphasizing the languages, cultures, and history of First Nations and Métis peoples. Students study First Nations people of British Columbia in four main areas: Relationships to the Land, the Historical Journey (contact, colonialism, and resistance), Leadership and Self-Determination, and Cultural Expressions.

## **Contemporary Indigenous Studies 12** \*\*This course meets the Indigenous-Focused Course

Graduation Requirement.

This course will have the students looking at contemporary issues facing Indigenous people locally, nationally and globally. Students will not only develop a deeper understanding of these issues but also create a voice to enhance education for others. The student should have completed BC 1st Nations 12 prior to taking this course. Exceptions may be made at the discretion of the teacher.

## **Genocide Studies 12**

Career and Life Links: This course is recommended for students interested in careers such as journalism, international relations, law, teaching, and politics **\*\*This course is only open to students in grades 11 or 12\*\***

This course will focus on the origin and development of the term 'genocide' and the economic, political, social, and cultural conditions of genocide. Students will study the characteristics, stages, and actions of genocide by focusing on atrocities around the world in the 20th and 21st centuries. While genocides are caused by and carried out for different reasons, all genocides share similarities in progression and scope. Students will study the Holocaust, Armenian Genocide, Cambodian Genocide, Bosnian Genocide, and Rwandan Genocide. We will also study genocide remembrance and denial. Students will have the opportunity to pursue independent study of a genocide of their choice. In addition, students will examine international responses to genocide. Course content will be delivered through research, primary source document analysis, film studies, lecture, and discussion. This course will require strong reading and writing skills.

## **Law Studies 12**

Career and Life Links: This course is recommended for students interested in careers in policing or law. It is also relevant to teaching careers.

This course is designed to allow students to become familiar with both criminal and civil law in Canada. It is an introductory course and is taught by the "casebook" method in which students read details of an actual legal case and attempt to answer questions following that case, based on research and textbook information. Students will also visit the Provincial Court and gain firsthand experience into the workings of the Canadian legal system. Law 12 is not designed to train lawyers but will give students a broad general concept of the realities of the Canadian legal system as well as an understanding of the terms and rules that govern it.

## **Philosophy 12**

Career and Life Links: This course is recommended for students interested in careers such as journalism, business, international relations, law, teaching, and politics.

This course will require strong reading and writing skills. Recommendation: Explorations in Social Studies 11. Philosophy 12 is a course designed to introduce the basic ideas and methods of major world philosophies. Students will focus on topics such as the Nature of Reality (materialism, personal identity, postmodernism), Limits of Knowledge (rationalism, empiricism, skepticism), Morality (aesthetics, ethics,

egoism), Social and Political Philosophy (justice, feminism, individual/group rights), and World Religions. Students will be challenged to question their assumptions and better understand their own beliefs. Emphasis is placed on well-informed thinking and intelligent, capable discussion (both written and oral) of the topics. Students can expect to participate in classic forms such as debates, argumentation, and other forms of dialogue.

## **Social Justice 12**

Social Justice 12 will change the way you see the world. Students will have the opportunity to study the legal, political, ethical, and economic perspectives that form Canadian concepts of justice and equality by examining issues like ethnicity, race, gender, socio-economic status, sexual orientation, marital and family status, poverty, and privilege. Students will grapple with both local and global issues for the purpose of developing global citizenship practices that promote social justice. Students will develop skills in recognizing injustice, fair-mindedness, embracing diversity, empathy, and taking action.

# ***Mathematics***

GRADUATION REQUIREMENTS FOR GRADES 11 & 12: ONE MATH 11 OR 12

## **Foundations of Mathematics 11**

Recommendation: C (60%) or better in Foundations of Math & Pre-Calculus 10

Units of Study

- Measurement Geometry
- Logical Reasoning Statistics
- Relations and Functions Research Project Finance

## **Pre-Calculus Math 11**

Recommendation: B (73%) or better in Foundations of Math & Pre-Calculus 10

Units of Study

- Exponents and Radicals Factoring
- Functions and Equations Parabolas
- Trigonometry Systems of Equations Rationals
- Finance

## **Pre-Calculus Math 11 Honours**

Recommendation: A (86% or better) in Foundations of Math & Pre-Calculus 10 or C+ (67% or better) in Math 10 Honours.

Pre-Calculus 11 Honours covers the same concepts of Pre-Calculus 11 but focuses on enrichment by adding Pre-Calculus 12 material. Students taking Pre-Calculus 11H will have the option to also gain a Pre-Calculus 12 credit.

## Workplace Math 11

Recommendation: C- (50%) or better in Foundations of Math & Pre-Calculus 10 or Workplace Math 10.

Units of Study

- Measurement
- Geometry
- Personal Finance Algebra
- Statistics

## Foundations of Mathematics 12

Recommendation: C+ (67% or better) in Foundations of Math 11 or C (60% or better) in Pre-Calculus 11

Career and Life Links: This course is designed to provide students with the mathematical and critical thinking skills required for entry into post-secondary programs that require the study of Math without the full rigor of Pre-Calculus 12.

This academic course is designed to provide students with the mathematical and critical thinking skills required for post-secondary programs (excluding engineering or sciences) that require the study of Math.

Units of Study

- Finances Set Theory
- Counting Methods Probability
- Exponential and Logarithmic Functions Polynomials
- Sinusoidal Functions

## Pre-Calculus 12

Recommendation: C+ (67%) or better in Pre-Calculus 11

Career and Life Links: This course is designed to provide students with the mathematical understanding and critical thinking skills identified for entry into post-secondary programs that require the study of theoretical calculus

Pre-Calculus 12 is an elective course intended for Grade 12 students who have shown an interest and an aptitude in Mathematics. The curriculum was developed, and lessons are planned with a focus on developing a student's algebraic, graphical and numeric reasoning in four broad areas: Trigonometry, Relations and Functions, Logarithms, and Transformations.

## Calculus 12

Recommendation: B (73%) or better in Pre-Calculus 12.

Career and Life Links: This course will be of interest to all students whose post-secondary studies will include at least one Calculus course. Students who take Calculus in high school are much more likely to succeed in their first-year university Calculus class.

It is beneficial to have completed Pre-Calculus 12 before beginning this course, but it may be taken simultaneously. Traditionally, first year Calculus courses have been extremely challenging, especially to students with little Calculus background. This course is only offered in 2nd semester and will provide students with a basic understanding of limits, derivatives, and integrals. Applications and problem solving

will be emphasized throughout the course. Strong math skills, good work habits, and an ability to deal with abstract concepts are essential.

## **AP Calculus 12**

AP Calculus 12 runs as a linear class over 2 semesters. Recommendation: B (73% or better) in Pre-Calculus 12. It is beneficial to have completed Pre-Calculus 12 before beginning this course, but it may be taken simultaneously, preferably in first semester.

Career and Life Links: This course gives students the opportunity to study university-level math topics while still in high school. It is expected that students who take this course will write the AP Calculus exam in May and then seek university credit and/or university placement. This course will be of interest to students planning further education in such areas as Science, Engineering, Technology and Business.

Advanced Placement Calculus AB is typically equivalent to one semester of post-secondary calculus. This course is primarily theoretical with a focus on properties of functions, limits, and differential and integral components of Calculus. Interested students should have demonstrated mastery of material from math courses that covered algebra, coordinate and analytic geometry, trigonometry, and elementary functions. Graphing calculators will be used regularly to reinforce the relationships among the multiple representations of functions, to confirm written work, to implement experimentation, and to assist in interpreting results. Classes are held every other day for the full year. Highly skilled and motivated students may choose to independently study extra topics and write the more comprehensive AP Calculus BC exam.

# **SCIENCE**

GRADUATION REQUIREMENTS FOR GRADES 11 & 12: one Science 11 or 12

Career & Life Links for **Chemistry**: Chemistry is often called the “central science”. It is appropriate for students interested in the bio-sciences (such as medicine) and physical sciences (such as engineering). Chemistry is a wonderful course for developing your problem-solving skills in the mathematical and conceptual realms.

## **Chemistry 11**

Chemistry 11 is an inquiry-based lab-oriented course concerned with the identification, characterization, and transformation of matter. The course has a strong mathematical emphasis. Specific units dealt with include: the scientific method, classification and description of matter, atomic theory, including introductory quantum mechanics, the mole concept, including stoichiometric applications, chemistry of solutions, and an introduction to organic chemistry. Students taking Chemistry 11 can expect a variety of laboratory activities.



## **Chemistry 11 Honours**

Chemistry 11 Honours is similar to the regular Chemistry 11 course, but proceeds at a faster pace, adding units on gases and nuclear Chemistry. Inquiry-based laboratory work is emphasized to a greater extent. This course is open to all grade 11 and 12 students with a keen interest and above average ability in math and science.

## **Earth Science 11**

Earth Science is a course designed to investigate the earth and its structure. This includes the study of the lithosphere, space science and how the earth fits into the realm of space. The basic units are geological science and space science. Earth Science 11 satisfies the university entrance requirements for a grade 11 Science course. This course includes lab activities.

## **Environmental Science 11**

Recommendation: Science 10

A hands-on, lab-based course that uses an interdisciplinary approach to look at current problems facing humans and the planet. This course focuses on climate change, ecosystems, acidification of the oceans, pollution, waste management and human illnesses caused by environmental disasters. Use your knowledge of Chemistry, Biology and Earth Science to problem solve issues that are changing how we interact with the Earth.

## **Life Science 11**

Life Science 11 introduces the student to the study of life in all its forms. The course begins with an introduction to the methods and principles of biological science. This includes the scientific method, evolution, classification and taxonomy, and levels of organization. A significant portion of the course involves examination of the four biological fields.

- 1) Microbiology
- 2) Zoology (Animal Biology)
- 3) Botany (Plant Biology)
- 4) Evolution

## **Life Science 11 Honours**

It is strongly recommended that students enrolling in Life Science 11 Honours have an "A" or high "B" standing in Science 10 Honours.

Life Science 11 Honours includes all topics covered in regular Life Science 11. The honours course examines these topics in greater depth and includes a number of additional ones (eg. biochemistry).

## Physics 11

Physics is the science that deals with applying mathematics to explain everyday physical phenomena. We use your knowledge of MA 10 and SC 8-10 to predict and explain motion, forces, energy, waves and nuclear physics. Note: Laboratory activities will be required. Mathematical ability is essential; a C+ in MA 10 is recommended. Non-programmable calculators are recommended. Trigonometry and algebra will be used.

## AP Physics 11 (Honours)

Recommendation: "B" or better in Science 10 or 10H and Math 10 or Math 10H. Trigonometry and algebra will be used.

Following the restructuring of the Advanced Placement Physics curriculum, AP Physics is now a two-year course. Physics 11 Honours is now Physics AP1. Topics covered in this course will be similar to those taught in regular Physics 11, but at a faster pace and at a greater depth. In addition, extra topics such as circular motion, rotation, and electricity will be discussed. This course is highly recommended for those students wishing to explore physics in greater depth, and for those considering pursuing physics and/or engineering in university. Students successfully completing the course and passing the AP exam (in May) will qualify for university credits equivalent to first semester of a first-year university Physics course.

## Anatomy & Physiology 12

Recommendation: "B" in Biology 11 (Due to the detailed study of cell biochemistry, Chemistry 11 is recommended)

Anatomy & Physiology 12 continues the study of life with a greater emphasis on the human being. Like Life Science 11, it begins with a review of the methods and principles of biological science. Biochemistry and Physiology are heavily emphasized in Anatomy & Physiology 12. The majority of the course is composed of three major units.

- 1) Cell Biology
- 2) Biochemistry
- 3) Human Biology

## AP Biology 12 - 8 credits (Biology 12 AP + Anatomy & Physiology 12)

It is strongly recommended that students have a high "B" or "A" in Biology 11 Honours and Chemistry 11 before attempting Biology 12AP.

Advanced Placement Biology is designed to be the equivalent of a first-year college or university biology course. It is a survey of most of the major topics in biology including biochemistry, physiology, cytology, genetics, evolution, and ecology. Although students are expected to be familiar with the anatomy of those organisms that are studied, the course concentrates on the description and analysis of biological processes and on problem solving. The recent AP Biology revisions place a major emphasis on lab work.

## Chemistry 12

Recommendation: "B" in Chemistry 11 & at least a C+ in Math 11

Chemistry 12 is intended for Grade 12 students who have shown an aptitude for the subject and plan to take Chemistry and related courses at the post-secondary level. Problem solving and lab work is much more prevalent than in Chemistry 11 and a good understanding of mathematics is essential. The course contains extensive inquiry-based laboratory investigation of five topic areas including reaction kinetics, solubility principles, chemical equilibrium, acids and bases, and oxidation-reduction reactions. Due to a large number of mathematical calculations in the course, students should have a C+ standing in Math 11 before attempting Chemistry 12.

### **AP Chemistry 12** - 8 credits (Chemistry 12 AP + Chemistry 12)

It is strongly recommended that students have an "A" or a high "B" in Chemistry 11 Honours before attempting Chemistry 12AP.

Advanced Placement Chemistry is a first-year college course in general chemistry offered at the high school level. The course differs qualitatively from the usual grade twelve chemistry course with respect to the kind of textbook used, the degree of detail with which topics are covered, the emphasis on chemical calculations and the mathematical formulation of principles, and the kind of laboratory work done by the students. Quantitative differences appear in the number of topics treated, the time spent on the course by students, and the nature and the variety of experiments done in the laboratory. Students taking Advanced Placement Chemistry will certainly be well prepared for the B.C. Provincial and Scholarship Exams. The five major topics from regular chemistry twelve (Kinetics, Equilibrium, Solubility, Acid/ Base and Electrochemistry) are all developed in considerable detail along with an additional unit in Thermodynamics. Many Chemistry 11 topics are also reconsidered and expanded upon as they apply to these new areas.

## Environmental Science 12

Career & Life Links for Life Sciences (Biology): There are a tremendous number of careers available in biosciences ranging from health sciences, forestry, fisheries, kinesiology, environmental studies and research.

Recommendation: Environmental Science 11

Environmental Science 12 will take a deeper look at the environmental challenges that we are currently facing. This course will focus on water and the international laws that are in place to provide safe drinking water. We will also look at factors affecting climate change and what we can do to slow down or reduce the effects. Land use, such as agriculture, food resources and urbanization will also be studied. This course will be lab and research-based where all the fields of science will be used to analyze and discuss current environmental issues.

## Geology 12

Career and Life Links: Relevant for students considering further study in geography, meteorology, sustainability, mining, etc.

This course will focus primarily on the study of the Earth's crust, with emphasis on local geology. Specific topics include: composition of the Earth (minerals, rocks), economic importance (mining, oil drilling), geological history (time scale, dating techniques and fossils), earth building processes (plate tectonics, earthquakes and volcanoes), earth wasting processes (streams and glaciers) and comparative planetology. It is recommended that students have strong reading and writing skills and a willingness to work outdoors.

## Physics 12

Recommendation: "B" in PH 11-*\*Note: Mathematical ability should be C+ in Mathematics 11 or 12, as trigonometry and algebra will be required.*

Career & Life Links for Physics: Students having physics credits entering post-secondary will have an advantage over those who do not. They will find a much wider selection of careers and fields of study available to them. Physics is an asset to anyone entering Sciences or any trade and a must for engineering.

Physics 12 extends the basic concepts of Physics 11 to motion in two dimensions, forces, energy, circular motion, torque, electrostatics, electric circuits and electromagnetism. Students with satisfactory standing (C+ or better) in Physics 11 will find this course challenging. This course concentrates on problem solving and the use of mathematics in analyzing and describing physical situations. Laboratory work will be ongoing. This course will be similar to first year post-secondary physics. A non-programmable calculator may be required for the provincial exam.

## AP Physics 12 - 8 credits (Physics 12 AP + Physics 12)

Recommendations: Physics 11 (B or better) Honours is recommended AND Mathematics 11 (B or better)

This course is equivalent to a first-year physics course at UBC or SFU. This course covers a wide range of topics, encapsulating the British Columbia Physics 11 and 12 curriculums as well as extensions to match the curricula of most American schools. Such topics are kinematics, forces, energy, circular motion, electrostatics, circuits, electromagnetism, waves, fluids, atomic, nuclear, and thermodynamics. Since we have less time to cover 33% more material than in the regular Physics 12 course, there is a considerable pace that the student must accept. Student directed learning is a must in this course. In light of this, students must be committed to a challenging experience. At this time, we offer the more comprehensive Physics AP - B level course of study. A non-programmable calculator is recommended.

# ART

## Graphic Arts 11 \*\*counts as a Fine Arts credit

Career and Life Links: If you want a career in graphic design, commercial art, animation, the video game industry, the film industry, fashion design, or any career requiring creativity and an eye for detail, Graphics Arts 11 is the course for you.

Recommendation: Art 9 or 10, or Studio Art 11

Are you a creative individual with a flair for design? Do you like to design things like t-shirts, logos, and album covers? Are you interested in pursuing a career in commercial art or graphic design? Then Graphic Arts 11 is for you. The course explores how to use various artistic techniques in advertising, packaging, and mass communication. About half of the course is done digitally using Adobe Photoshop and the other is done using hands-on printmaking techniques including screen printing and lino-print.

## **Graphic Arts 12** \*\*counts as a Fine Arts credit

Career and Life Links: This course is recommended for those who wish to further develop their skills leading towards a career in graphic design, commercial art, animation, the video game industry, the film industry, fashion design, or any career requiring creativity and an eye for detail.

Recommendation: Graphic Arts 11

This course is designed for those students who want to continue developing their skills and knowledge in the areas of printmaking and graphic design. The projects completed in this course are designed to become an integral part of an art portfolio.

## **Studio Arts 2D 11** \*\*counts as a Fine Arts credit

Career and Life Links: This is a course designed for those looking to potentially pursue art-training at the post-secondary level. Anyone considering a career requiring creativity (graphic design, commercial art, animation, the video game industry, the film industry, fashion design etc.) would greatly benefit from this course.

–Although there are no prerequisites for this course, previous art experience will be helpful.

Are you considering a career that involves creativity? Then Studio Arts 2D 11 is for you. In this course, students will produce several large-scale drawing and painting projects, further developing their skills. Each project will require students to explore art-history, brainstorm, problem solve, create and evaluate their work. Students will participate in regular group critiques as well as the student art show held at the end of the semester.

## **Studio Arts 2D 11 Honours** \*\*counts as a Fine Arts credit

The course will parallel Studio Art 2D 11 with the addition of extra projects and expectations. Permission/recommendation of the art teacher is required. A minimum average of 75% must be maintained to remain in this course.

## **Studio Arts 2D 12** \*\*counts as a Fine Arts credit

Career and Life Links: The course will benefit those wishing to pursue any career requiring creativity (graphic design, commercial art, animation, the video game industry, the film industry, fashion design, etc.). Although there are no prerequisites for this course, previous art experience will be helpful.

Building on the ideas of Studio Art 11, students in this course will produce several more-advanced, large-scale works. Each project will require students to explore art-history, brainstorm, problem solve, create

and evaluate their work. Students will participate in regular group critiques as well as the student art show held at the end of the semester. The projects completed in this course are designed to become part of an art portfolio used to gain acceptance to post-secondary art training.

## **AP 2-D Design Portfolio 12** \*\*yearlong class

Career and Life Links: This course is not exclusive to students pursuing a career in art. Art teaches the valuable skill of creative problem solving. Once students have learned this skill, they can use it to solve problems in their own lives, outside of school. More than ever, employers are looking for innovative, creative thinkers.

Recommendation: A portfolio of past work must be presented to the teacher for evaluation before being admitted into this course.

AP 2-D Design Portfolio is designed for students wishing to pursue art training at the post-secondary level. Over the course of the year, students will be required to produce 15, high-quality works which will then be submitted to the AP College Board in May. These same pieces can be used to apply for district scholarships and used as part of a portfolio required to gain admission to college or university art programs. This course is designed for highly motivated students. It requires a great deal of commitment and the ability to spend multiple hours of work outside of class time each week. Both the teacher and the College Board will provide a comprehensive analysis of the student's work.

## **Studio Arts 3D 11** \*\*counts as a Fine Arts credit

3D Art 11 is a hands-on ceramics course where student's artwork is developed using several different hand building and wheel throwing methods. This course is for students that have ceramic basics and want to push their skill and image development to the next level. There is no prerequisite required to take this course.

## **Studio Arts 3D 12** \*\*counts as a Fine Arts credit

3D Art 12 is a hands-on ceramics course where student's artwork is developed using several different hand building and wheel throwing methods. This course is for students that have pottery basics and want to design and make their own projects out of ceramics. There is no prerequisite for this course but a knowledge and understanding of the principles of clay is an asset.

## **The Fine Art of Crafts 12** \*\*counts as a Fine Arts credit

*All students are welcome to participate in this hands-on course. Students will learn the history and techniques of traditional crafts. Possible projects include but are not limited to: Clay Tile, Beaded Orange Shirt Day Pin or Remembrance Day Poppy, Lino Block Carving and printing on fabric, Decoupage, Ukrainian egg painting, Macramé, Wood Buring, Bracelet Making, Origami, and Embroidery.*

# ***BUSINESS EDUCATION***

## **Accounting 11** \*\*counts as an Applied Skills credit

Career and Life Links: This course is useful for everyone! Not only those who want to manage or own a business, or those wanting to become accountants. But anyone who will one day need to handle their own personal finances, invest, and pay taxes.

This is an introductory course to the language of business...accounting! In this course we learn how to read important financial documents and to understand the true meaning of profit by learning the “Accounting Cycle”. Students will learn debit/credit theory, explore financial statements such as the Income Statement and Balance Sheet on their way to understanding the complete Accounting Cycle. In addition, we cover important life skills such as budgeting, saving, paying taxes, and investing! Students will learn to use tools such as Microsoft Excel, Google Sheets, Simply Accounting, the Cash Flow board game to reinforce the accounting concepts learned. This course is well suited for students with basic math skills looking to explore what accounting is all about and how it applies to all aspects of business finance.

## **Entrepreneurship 12** \*\*counts as an Applied Skills credit

Career and Life Links: This course is one to consider if you are interested in being your own boss one day, if you have always wanted to open up your own business, or if you are just curious about exploring the world of Business.

This course will provide students with glimpse into the vast world of Entrepreneurship. This first starts with looking at modern entrepreneurs, their characteristics, and how they achieved success in their fields of business. Over the term we will also cover key topics such as Economic Concepts, Business Start-Ups, Business Plans, Business Ethics & Sustainability, and the importance Teamwork and Networking. In addition, students will take part in our investing unit which includes participating in our Stock Market Simulator and Cashflow games. A highlight of this course, through gaming students will learn about investing concepts such as profit vs revenue, good debit vs bad debit, creating passive cash flow, ROI, real estate, how stocks work, and future investing that includes beating inflation.

## **Marketing & Promotion 11** \*\*counts as an Applied Skills credit

Career and Life Links: This a great course for those wanting to understand more about the ever-expanding world of social media & E-commerce; in particular how they are changing they way we do business. A fun course for those with creative & design skills who are looking for a way to express themselves in a way that could lead to future employment in the marketing and business industry.

Marketing & Promotion 11 is an introductory course that allows students to explore the fascinating world of Marketing. It covers the basics of marketing concepts such as the 4 P’s, product life cycles, branding, advertising, retailing, packaging, and promotion and selling. The course also deals with e-commerce, international politics, culture, environmental issues, social causes, and other major components of our world. But most of all, it deals with you! – as a consumer, as a market, as a demographic, as a representative of a group or lifestyle. This course gives students the opportunity to apply and demonstrate their new marketing skills in a variety of projects and assignments.

## **Entrepreneurship 12 - Mane Street Café** \*\*counts as an Applied Skills credit

Career and Life Links: Practical hands-on job experience in the food & service industry. Learning how to handle money, promote products, boost sales, and most importantly...work with other people! Great opportunity for creating a reference for post-secondary and future job applications!

Heading into grade 11 or 12 and looking for a course that gets you out of the traditional classroom and into a practical hands-on environment? If you are reliable and can be on time, ask your school counsellor about working in the Mane Street Café. In this course you will learn about serving the public, handling money, promoting and marketing products and making good coffee! You will also grow in your confidence as you learn to take initiative, problem solve and communicate more effectively.

# **DRAMA**

## **Drama 11** \*\*counts as a Fine Arts credit

Recommendation: Drama 10 or Teacher permission.

In this course, students will begin to hone a deeper sense of their acting abilities through script work and character development. Emphasis is placed on developing a personal approach to their given roles. Students will learn about auditioning and the skills required to find work as an actor. We will explore professional stage and film acting, the history of theatre and film, and how to take direction. Evaluation will be based on class participation, written assignments, and performance.

## **Drama 12** \*\*counts as a Fine Arts credit

Recommendation: Drama 11 or Teacher permission.

In this course, students will begin to branch out from the role of actor and explore the realms of writing, directing, and design. A study of acting and directing styles throughout history is also part of the course. We will explore classic stage and film genres and students will learn to produce their own works, plays, and films. Students will learn the basics of a production company and will learn to promote their own performances. Evaluation is based on class participation, written assignments and performance.

## **Film & Television 11/12** \*\*counts as a Fine Arts credit

This course explores the elements of modern filmmaking and videography. We will explore creative storytelling, live recording, broadcasting, editing, and pre/postproduction. We will discuss and review some of the great directors and their films while examining how technology and emerging forms of media like streaming can transform communication in a variety of ways. Evaluation is based on class participation and production. There may be some minimal out of timetable expectations.

## **Musical Theatre 11/12** \*\*counts as a Fine Arts credit

Yale Musical Theatre is a course dedicated to building well rounded performers and technicians with a passion for the stage. Our performances include acting, singing, dancing, and professional level production elements such as sets, lighting, sound, and costumes. Members in this class will be a part of both the cast and crew. All lead roles will require auditions. There will be a public performance at the end.



# **HOME ECONOMICS**

## **Food Studies 11** \*\*counts as an Applied Skills credit

Career and Life Links: If you are interested in studying nutrition, doing cook/chef training or working in the restaurant industry after high school, this is a course to consider. Above all, Foods 11 will develop your personal cooking skills for life after you leave home.

This course is open to grade 10 & 11 students. The intent of Foods 11 is to help students develop self-reliance and independence, while teaching skills necessary for a hearty and healthy life. Exploring food, an essential part of life, also allows you to develop creativity. Plus, an understanding of nutrition will help develop skills to improve your quality of life and sense of well-being. Units of study will cover breakfast, lunch, and international dinners from Greece, Italy, Mexico, and more.

## **Food Studies 12** \*\*counts as an Applied Skills credit

Career and Life Links: Through catering opportunities, Foods 12 provides the chance for students to gain work/volunteer hours which can then be used towards grad transitions. Foods 12 also prepares students for living and cooking on their own.

Recommendation: Foods 11

Foods 12 is a class where you can learn to cook (and cook well) for yourself and others, navigate the confusion surrounding food issues, and make sense of the abundant information about food and nutrition. We will explore questions such as what it means to eat healthy, and why it is this important; how can food be prepared that is efficient, affordable, nutritious, and delicious; what are some of the factors that influence what and how we eat; and what is the relationship between food and the environment? Units may cover the 100 mile diet, Vegan/vegetarianism, Protein foods (“meatatarians”), GMO foods, Chocolate in relation to its global issues, Spices, Job opportunities in food related industries, Etiquette, Cultural foods of the world... (your suggestions will be considered), and Pastas; yeast breads; soups, salads, and sandwiches.

## **Nutrition and Cooking for Athletes 11** \*\*counts as an Applied Skills credit

Students in this course will explore the types of nutrition that support an athletic lifestyle and the physical needs of an athlete engaging in performance training. They will evaluate their current diets, assess their dietary needs based on their training/game schedules, and research foods/recipes that support athletes in single—and multi-sport contexts. As part of their coursework, students will research recipes, source ingredients, and prepare dishes.

## **Textiles 11/12** \*\*counts as an Applied Skills credit

Career and Life Links: Interested in a career in fashion or art? Consider this course!

If you are just learning to sew or already have a foundation in sewing this course is for you! This newly designed course is offered to those students interested in designing and making apparel and accessories. Students are encouraged to explore a variety of techniques, basic hemming to more advanced alterations, using a pattern and fabric choice. You will learn about design and how to make it work for you, then apply it as you create and sew your own design. You will have choice in all projects that will suit you, your lifestyle, and skill level.

# ***MODERN LANGUAGES***

## **French 11**

Recommendation: A “C+” or higher in French 10

This course builds on the key language skills (reading, writing, speaking, and listening) learned in French 9 and 10 as well as continuing to learn more about francophone cultures. There is a greater emphasis on speaking, writing, and grammar than in previous French courses. More advanced vocabulary, verbs and grammar are introduced through a variety of interesting themes and stories.

## **French 12**

Recommendation: A “B” or higher in French 11

This course will continue to build on the language skills learned in French 9, 10, and 11. Through various themes and stories, vocabulary, verbs, and grammar are studied to build confidence in the four language skills (reading, writing, speaking, and listening). By the end of French 12, students should be able to communicate in a variety of contexts and have a greater awareness of Francophone cultures. Students enrolled in French 12 have the opportunity to write the international DELF exam at the A2 or B1 level.

## **Spanish 11**

Recommendation: A “C+” or higher in Spanish 10

In this course, students will build on the skills learned in Spanish 9 and 10 in order to communicate, describe and express themselves more proficiently in Spanish. We will continue to build fluency in the areas of listening, speaking, reading and writing. We will continue to incorporate stories and other texts to learn the language and apply the correct use of grammatical structures in various contexts. Exposure to cultural elements (music, film, geography, customs, etc.) and research about Hispanic culture may also occur at various times during the course. The majority of the instruction will be in Spanish, and students are expected to communicate with the teacher and classmates “en español.”

## Spanish 12

Recommendation: A “B” or higher in Spanish 11

This course is designed for students with a genuine interest in the language and culture of Spanish-speaking countries. It has a communicative approach using advanced listening, speaking, reading and writing activities. Vocabulary and grammar are reinforced through various themes and students will be able to have more extensive conversations and discussions about issues that are relevant to them. By the end of Spanish 12, students should be able to express themselves comfortably in the past, present, and future time frames using more complex structures and a wide variety of vocabulary.

## MUSIC

Career and Life Links for Music: Students wishing to pursue careers and higher education in music are encouraged to take these courses. Students learn to analyze complex ideas, work within a group cooperatively, and learn practice skills necessary for both academic and musical success. Careers related to music include, but are not limited to entertainment law, music education, performance, composition, music history, library studies, and recording arts

### **Guitar 11** \*\*Students may only take Guitar once. \*\* counts as a Fine Arts credit

For students with little or no previous guitar experience. This is a beginner guitar course designed for students who wish to learn to play guitar. The course content will include basic note reading, chord construction and chording patterns.

**\*Students must bring their own acoustic or classical guitar.**

## OTHER ELECTIVES

### **Engineering 11** \*\*counts as an Applied Skills credit

Engineering 11 is an engaging and hands-on course designed for students interested in exploring the world of engineering. This course emphasizes the application of scientific and engineering principles to solve real-world design problems. Students will develop skills in teamwork, problem-solving, and project management through collaborative projects. Key topics include the design process, product life cycle, and the use of Physics and Math concepts for engineering modeling. A significant hands-on component allows students to bring their designs to life, building and testing their creations in interactive labs. You'll gain a solid foundation in various engineering disciplines, preparing you for future studies and careers in engineering.

### **Horticulture 11** \*\*counts as an Applied Skills credit

Career and Life Links: Excellent course for those interested in landscaping or nursery work in the future.

Horticulture 11 provides hands-on learning experience for students interested in developing job-related skills in the agricultural and horticultural sector. Students will gain knowledge and skills in greenhouse operation, landscaping, garden development and garden maintenance. Students will also learn theory relating to many aspects of horticulture, such as: soil composition and fertility, the importance of plants to humans, plant hardiness, botany (plant development, parts and classifications), and plant propagation. Practical and project

work are major components of this course. Students will participate daily in development and nurturing of nursery stock in preparation for a plant marketing activity. This activity provides an opportunity for students to develop skills for working with the public while sharing their recently acquired knowledge with community members.

## **Interpersonal and Family Relationships 11**

Career and Life Links: Interpersonal and Family Relationships 11 is beneficial for students considering careers in: Education: Teaching and school counseling, Healthcare: Nursing, medicine, and mental health services, Social Work: Family and community services, child welfare, Law: Family law, mediation, and advocacy, Emergency Services: Policing, firefighting, and paramedicine, Human Resources: Employee relations and organizational development, Early Childhood Education: Childcare and developmental support, Public Relations: Community engagement and communication strategies, This course equips students with the interpersonal skills and cultural awareness essential for success in any profession involving interaction with diverse groups and communities.

Interpersonal and Family Relationships 11 explores the complexities of human relationships, offering students insights into how connections are formed, maintained, and transformed over time. This course covers a range of relationship types, including friendships, work relationships, and committed partnerships such as marriage, with an emphasis on understanding diverse cultural practices and perspectives. Students will examine key aspects of relationship dynamics, including effective communication, emotional well-being, conflict resolution, and safety.

Through the study of concepts from Psychology, Anthropology, and Sociology, students will gain a deeper understanding of the factors that influence relationships and the skills necessary to navigate them successfully. The course encourages critical thinking and self-reflection, culminating in a student-selected research project that delves into specific areas of interest within the field of interpersonal and family relationships.

## **Sports Medicine 11**

Recommendation: PE 10

Career and Life Links: A must for anyone wanting to pursue a career in athletic training, kinesiology, physical therapy, physical education or medicine.

Sports medicine is a senior course for students interested in sports, fitness, and recreation. Any student wanting to pursue a career in athletic training, kinesiology, physical therapy, physical education or medicine will benefit from taking this course. Students will learn about human physiology, nutrition and body mechanics. Students will also have hands-on training in athletic taping as well as learn how to treat various athletic injuries. For students who are athletes or want to pursue a career in the athletic field this is the perfect course for you.

## **Student Leadership 11**

Career and Life Links for **Student Leadership**: The leadership program develops communication, problem solving, public speaking and team building skills. All are essential for the world of work and further study.

Recommendation: Teacher Permission

Leadership 11 students will focus on further developing their leadership skills. They will be involved in planning our school-wide event “Live to Give” as well as many other school activities. Students will be involved in participating in community service.

## **Student Leadership 12**

Recommendation: Teacher Permission

Senior Leadership students will have the opportunity to further develop their communication skills, managerial skills, and human relations skills. They will also focus on personal and social responsibility. Students will plan many school-wide events as well as become involved in community service.

## **Creative Writing 12** - This class is an elective and does NOT meet your English 12 graduation requirement

Career and Life Links: You will develop the ability to plan, set and follow schedules, give and use feedback, communicate with a variety of audiences, and explore a range of creative writing styles. Take this course if you want to communicate your ideas in a more creative way or explore writing as a career.

Creative Writing 12 is designed for students who are interested in developing confidence and refining their writing skills through self-expression for various creative purposes. This course will provide you with in-depth opportunities to explore personal and cultural identities, memories, and stories in a wide range of genres. Within a writer's workshop format, you will collaborate and strengthen your skills through writing and design processes.

The following are possible areas of focus: short fiction, poetry, creative non-fiction, memoir, scriptwriting.

# ***PHYSICAL EDUCATION***

Classes are held in the main gym, small gym, weight room and classroom. All students are expected to wear suitable clothing for all activities. Gym strip is available at nominal cost. All students are expected to participate on a regular basis, the only exceptions being those who have significant injuries and/or medical excuses provided by a physician. Assessment will be based upon participation, fair play, completion of assignments and leadership.

## **Active Living 11 / 12**

Career and Life Links: This course is intended to promote a lifelong pursuit of physical fitness and involvement in future physical recreational activities.

Active Living 11 is an optional elective for students interested in being physically active and learning more about overall health. Students will participate and learn more about sports such as volleyball, badminton, pickle ball, basketball, soccer, rugby, and floor hockey. They will also be exposed to off-campus leisure activities such as curling, golf, bowling and skating. Fitness testing is a mandatory component and students will try to improve their scores throughout the semester. Students will participate in group warm-ups and stretches with other PE classes during their block. They are expected to demonstrate leadership through their behaviour and work ethic.

Students in Active Living 12 will be expected to instruct a lesson or mini-unit on an activity of their choice.

## **Fitness and Conditioning 11 / 12 (co-ed or female)**

Career and Life Links: Those considering a career in the fitness industry or in a particular sport will benefit from this course.

Fitness and Conditioning is a ministry elective that has been designed to help students understand and experience some of the various elements of personal fitness. Students will be expected to maintain an accurate personal fitness log. Term end fitness tests will be administered to plot progress made toward personal fitness goals. This course is tailored for students wanting to train for competitive athletics or achieve a high level of fitness.

### **Sport Performance 11 –Basketball or Rugby**

Recommendation: PE 10

This course is offered to meet the needs of high achieving student athletes. Students taking this course should be playing on a Yale team. If you have the desire and skill required to perform at high levels in one or more sports this course is for you. The theoretical and practical experiences developed for this course will help you achieve optimal performance. Students will be expected to record their daily workouts. Testing will occur every four weeks to monitor growth and improvement. Video analysis will also be used to monitor your achievement.

### **Sport Performance 12 –Basketball or Rugby**

Recommendation: Sport Performance 11

This course is offered to prepare students to physically and mentally to be at their best as athletes and leaders. Students taking this course should be playing on a Yale team. As an athlete you will participate in performance training regime that includes free weights, Olympic lifts, flexibility and agility training. Students will be expected to record their daily workouts. Testing will occur every four weeks to monitor growth and improvement. Video analysis will also be used to monitor achievement.

## ***PSYCHOLOGY***

Career and Life Links for **Psychology**: These courses have many applications as they help students to understand human behavior, both of others and of themselves. This knowledge is helpful for any career which involves dealing with people such as teaching, advertising, politics, nursing, as well as counselling or practicing medicine.

### **Psychology 11**

This course introduces students to the study of human behaviour and mental processes. Topics include the history of psychology and its current perspectives, research methods, biological bases of behavior (neuroscience & genetics), states of consciousness, human development over the lifespan, and sensation & perception. While this course requires some academic rigor, it will emphasize practical and personal applications of this knowledge (concrete demonstrations, labs, experiments, and projects).

## Psychology 12

Recommendation: Psychology 11 (or with teacher permission)

This course builds upon students' acquired understanding of human behaviour and mental processes from Psychology 11. Topics include memory, personality, social psychology, emotions and stress, psychological disorders, and therapy. While this course requires some academic rigor, it will emphasize practical and personal applications of this knowledge (concrete demonstrations, labs, experiments, and projects).

## AP Psychology 12

Recommendation: Psychology 11 (or with teacher permission)

This course reviews and extends students' understanding of human behaviour and mental processes from Psychology 11. Topics include a review of the history of psychology and its current perspectives, research methods, biological bases of behaviour (neuroscience & genetics), states of consciousness, human development over the lifespan, and sensation & perception. Further topics include learning, social psychology, thinking, language, intelligence, testing & statistics, motivation & emotions, stress, personality, psychological disorders, and therapy. This course requires a great degree of academic rigor; the focus is on multiple choice and short answer testing, with minor consideration given to projects. As this is a university level course, self-discipline & self-motivation are vital for students to be successful. Students may receive credit for Introductory Psychology at participating colleges and universities, depending on their score on the AP exam in May.

# TECHNOLOGY

## Automotive Technology 11 \*\*counts as an Applied Skills credit

Career and Life Links: This course is valuable for those who want to understand the basic working of a car. Skills such as oil changes, flat tire changes and basic mechanical knowledge are great life skills to have. This course could even lead to a career in the auto service industry through automotive 12 and SD 34 career programs.

Basic automotive theory and construction of modern auto systems are covered with equal theory and lab time. Oil changes, radiator flushes, tune-ups and air care are just some of the topics covered. This is an introductory course, but priority will be given to students who have taken Mechanics 10 and Metal Working 11. Coveralls or a shop coat are recommended for students who are taking this course.

## Automotive Technology 12 \*\*counts as an Applied Skills credit

Career and Life Links: This is an extension of Automotive 11 and should be considered a mandatory course for anyone who wants to be able to perform basic car repairs or pursue a career in the automotive industry.

Recommendation: AT 11

The Auto 12 program expands on principles of theory and shop procedures learned in Auto 11. More detailed instruction will be given in the areas of tune-up diagnosis and troubleshooting. Students are expected to work independently with emphasis placed on quality practical work rather than theory.

## **AT12: Engine & Drive Train 12** \*\*counts as an Applied Skills credit

Career and Life Links: These courses should be treated as extensions of Automotive 12 that can prepare students to perform a greater range of repair and diagnostic work.

Recommendation: AT 11 & AT 12

This is a continuation of Automotive Technology 12, offering the student additional shop time and instruction for more intensive work. Students will be expected to work on self-paced theory along with an extensive project. For example, a student may re-build an engine and complete the accompanying theory-related assignments that go along with it. This course should suit students who may want to go into the trades.

**\*Please note: Students may have to provide their own motor or transmission depending on what is available in the shop at the time of the course offering.**

## **Computer Programming 11** \*\*counts as an Applied Skills credit

Career and Life Links: You should take this course if you are interested in careers that focus on computer and technology use, such as the information technology sector, or engineering. This course will also help develop your analytical skills which would be very helpful for Science and Math.

*(Introduction to Programming in JavaScript)*

Pre-requisite: None (Students do not need to have any previous computing experience)

This is an introductory level course in computer programming. We will investigate and learn about the very popular JavaScript programming language, which powers the internet. No previous computer experience is necessary, and students will find this course to be quite flexible. The course will cover the following:

- create basic web pages
- JavaScript basics
- develop interactive websites
- variables and loops
- programming logic, structure, and functions
- basic Object-Oriented Programming concepts

## **Computer Programming 12** \*\*counts as an Applied Skills credit

Career and Life Links: You should take this course if you are interested in careers that use computers extensively, such as the information technology sector, or engineering. This course will also help develop your analytical skills which would be very helpful for Science and Math.

*(Programming in JavaScript)*

Recommendation: ICTP 11 or other programming experience

We will further our development of JavaScript. Part of this course will be a self-directed programming project of the student's choosing. The course will cover the following:

- JavaScript review



- Object-Oriented Programming, focusing on properties and methods
- developing an interactive website
- completing a programming project, such as a game

## **Metalwork 11** \*\*counts as an Applied Skills credit

Career and Life Links: This is a great course for anyone who wants to continue on to Automotive 12 or Metalwork 12. Many skills can prepare students for an entry level labour job in industry and for basic metalwork at home. Those interested in the creative nature of metal art may also find this course valuable. This course also prepares students for the Abbotsford School District welding career program.

This course is open to students in grade 10, 11, or 12. Students will explore fabricating, machining and welding. Student projects could include lathe work, milling machine work, and welding and fabricated projects. In addition to foundation fabricating and machining skills, students will have an opportunity to explore CNC plasma cutting and lost wax casting.

## **Metalwork 12** \*\*counts as an Applied Skills credit

Career and Life Links: This course is an extension of Metal Work 11. It will further prepare students for entry level employment in the trades.

Recommendation: Metal Work 11

Students will complete a set of small skill building projects focusing on senior level machining techniques. In addition, students are expected to develop plans and to fabricate at least one major metal project. Drafting skills are an asset but are not mandatory. Students must be prepared to work in a busy shop setting. This course is a good opportunity for students to explore SD 34 scholarship project options.

## **Women in Tech 11/12** \*\*counts as an Applied Skills credit

This course is open to grade 9-12 students. This is an introductory course that will introduce female students to metal work, carpentry, electrical, plumbing, automotive maintenance and computer-controlled machines (CNC). Being a project centered course, students will get to make a variety of projects. Some project examples are jewelry, candle holders, picture frames, bowls, goblets, jewelry boxes, CNC made signs, vehicle oil change and basic maintenance. \*\*Students will learn about BC's apprenticeship system and trades related careers.

## **Woodwork 11** \*\*counts as an Applied Skills credit

Career and Life Links: Skills learned in this course will be great for the future handyman or homeowner. This course will also prepare students for Carpentry & Joinery 12 and set the foundation for a possible Abbotsford School District scholarship project.

In this course, students will develop their skills in a wide range of woodworking operations while designing and building a set of projects in wood. Problem solving and design skills will be emphasized. Students will also gain experience relating to construction materials, wood surface protection, equipment and tool maintenance, and mass production techniques.

## **Woodwork 12** \*\*counts as an Applied Skills credit

Career and Life Links: This course prepares students to safely use any machine commonly used in woodwork shops. This course could lead to a career in finishing carpentry, cabinet making, framing or artisan woodwork. Although there is not a focus on building construction, skills learned will transfer well to home remodeling and renovation. There will also be an opportunity to compete in the Abbotsford School District Scholarship competition.

Recommendation: Wood Work 11

This course emphasizes bench work and joinery skills. Students will construct self-designed projects using various machine skills and joinery techniques. Furniture pieces, cabinets, canoes and kayaks are possible projects for this class.

NOTE: Any student wanting to complete a scholarship project should try to take this class in Semester One.

## **WW 12: Furniture Construction** \*\*counts as an Applied Skills credit

Career and Life Links: This course should be treated as extensions of Woodwork 12 that can prepare students to perform a greater range of work.

Recommendation: WW 11 & WW 12

This is a continuation of Woodwork 12, offering the student additional shop time and instruction for more intensive work. Students will be expected to work on self-paced theory along with an extensive project. This course should suit students who may want to go into the trade.

# ***EXTENDED DAY OPTIONS***

\*\*THESE CLASSES ARE OFFERED BEFORE SCHOOL, AFTER SCHOOL OR AT LUNCH AND ARE CHOSEN IN ADDITION TO THE 8 INSIDE THE TIMETABLE CLASSES.

## **Concert Band 11 – 12** \*\*counts as a Fine Arts elective

Recommendation: minimum two years of instrumental experience or see Ms. Sargent

The main emphasis is on playing and developing technical skills on your instrument and enjoying more challenging repertoire from the band literature. Many performance opportunities will be offered at concerts, festivals and trips. Attendance at all rehearsals and performances is mandatory.

## **Concert Choir 11-12** \*\*counts as a Fine Arts elective

Open to all students who wish to sing. Students do not need previous singing experience of any kind. Students will further their understanding of the vocal mechanism and basic music theory skills. The emphasis of this course is the performance of music in a variety of styles. Attendance at all rehearsals and performances is mandatory.

## **Jazz Band 11 – 12** \*\*counts as a Fine Arts credit

Co-requisite: must be enrolled in Concert Band or see Ms. Sargent

Emphasis will be on developing technical skills in the area of Big Band Jazz. All kinds of jazz music will be explored. The instrumentation for this class is saxophone, trumpet, trombone, drums, piano, electric guitar, bass guitar, and double bass. Students must have a minimum of two years playing experience. Attendance at all rehearsals and performances is mandatory. So, if you enjoy listening to music and are interested in the roots of it this course is for you!

## **PE Leadership Intramurals 11-12**

Recommendation: none

This class takes place at lunch time and is not part of the regular day. This is a course in which students can earn 4 credits for helping run lunchtime intramurals. Students are expected to help in the promotion, organization, set-up, take-down, scorekeeping and refereeing of the various sporting events. Events may include volleyball, soccer, basketball, badminton, pickleball, handball and floor hockey.

## **Yearbook 11**

Career and life links: This course is the one to consider if you are interested in pursuing a field in Journalism or Photography. Recommendation: Student must have record of good attendance and work habits in previous year.

Take pictures and write articles that others will look at and read for years to come. Experience what it is like to be a press photographer, write articles under pressure and create beautiful page layouts under demanding situations. This might just be your thing.

## **Yearbook 12**

Career and life links: Are you thinking about becoming a sports photographer, or a studio photographer? Or, are you considering a career in journalism or graphic art? If you are, then sign up for the Yearbook class.

Recommendation: Student must have record of good attendance and work habits in previous year.

Take an active role in shaping the look and feel of your last yearbook before you graduate. Depending on your strengths, you will not only help produce all aspects of the school yearbook but you may be assigned leadership responsibilities in key editorial roles.

## **Mentorship 11 (Link Crew 11)**

Mentorship 11 is a Grade 9 transition program whose objectives are to: empower grade 11 and 12 students as role models; increase academic success through support of peers; to develop leadership skills in students at Yale; to pass on positive traditions; to expose students to a variety of individuals at Yale in positive situations; and help foster a supportive and positive atmosphere at Yale.

This course is open to grade 11 and 12 students. Each Mentorship Leader will receive a list of 10 Grade 9 students to telephone and personally invite to the orientation, to work with at orientation and to stay in touch with throughout the school year. Mentorship members become leaders, motivators, role models and teachers. If you have not taken Leadership 9 or 10, you must apply to be accepted into this class. (applications in the counselling centre)

# **APPLICATION COURSES**

**\*Applications are required for these courses (see your counsellor).\***

## **PEER HELPERS**

Career and Life Links for Peer Helpers: All Peer Helping courses are recommended for those wishing to pursue a career in education or special education or related fields.

### **ADST Assistant 12**

Students selecting this course should be interested in helping teachers and students in any applied skills course (for example: Wood Shop, Foods Class). Students must have teacher permission.

### **Community Services 12**

This course is designed to give grade 11 and 12 students the opportunity to work in an environment where they learn to provide specialized assistance to students with special needs. Students will work under the supervision of the Resource Room teacher to provide assistance to students in a variety of contexts. Students will develop instructional skills, communication skills, leadership skills, teamwork, interpersonal relations and conflict management. Students will also learn the value and complexity of social diversity. The course will include some theoretical study in the area of exceptionality, instructional skills, communication skills and leadership skills, and will apply that learning in the context of working with special needs students.

### **Fine Arts Assistant 11: Art/Music or Theatre**

This course is an opportunity to provide assistance to a classroom teacher in the Fine Arts area (for example: music, theater, art). The course will provide leadership opportunities for advanced level students.

### **Lab Tech Assistant 12**

This course is intended for senior students with a strong science background and a desire to continue on to post-secondary instruction in the science area. This is a laboratory course in which students expand upon some of the basic laboratory work performed within regular science courses. Students are involved in the preparation and organization of lab materials, including solutions, chemical supplies and equipment. In addition, they will be trained in the working procedures of lab preparation. Students will work independently under the supervision of a science teacher.

### **Peer Tutoring 11**

This course is available to Grade 11 and 12 students who have a “B” average and an excellent attendance record. The course provides an excellent opportunity for students to gain experience in helping peers. Students will be assigned to work with individual students or selected classrooms. Evaluation will be based on assignments, teacher evaluation, participation and journals. This is an experiential course, so excellent attendance is mandatory.

## **Peer Tutoring 12**

Peer Tutoring 12 is available to Grade 12 students with a solid academic background. The course will involve helping students in regular classroom teaching environments. This is an experiential course, so excellent attendance is mandatory.

## **PE Leadership 11**

Career and Life Links: This course is tailored for students who may be interested in a career in Physical Education or Community Recreation Management.

Students must apply to be in the PE Leadership 11 course. Selection in the course will be based on the student's grade in PE 10, attitude, effort and overall leadership skills. This course is an opportunity to work on leadership skills in a recreational active setting. Leaders are required to role model physical education by becoming active participants in the class. The leaders are required to participate or lead warm-ups, stretches, drills, referee games and help keep the facilities clean and tidy.