

Grade 12 Course Selection by Subject

3D Animation 12 (YCCT12C)

This course is strongly recommended for students intrigued by a potential career in the rapidly-growing Vancouver gaming industry. Blender is used in advanced animation and game design. Create visual special effects in Photoshop CS6 to add to your scenes in Blender. 3D movie studios increasingly rely on these techniques. Follow your dreams.

Advanced Vinyl Graphics 12 (DDF12)

Prerequisite: Vinyl Graphics 11. Recommended to take Vinyl Graphics 12, or Teacher Permission. Teacher responsible: David Liversidge

This course is designed for those students who wish to consider a career in the graphic arts/sign making industries. The students will learn advanced techniques, materials, and skills needed to be employed in the sign making industry. Students will work in a professional environment completing projects for the community, working with clients in all aspects of the production of signs and graphics. Certification from the Sign Association of Canada may be a possibility. A complete certification will include a portfolio of projects completed throughout the program, practicum experience in a SAC exam/ presentation to an external committee. Students who apply to this program need to be creative, motivated, and trustworthy. Teacher permission and/or recommendation necessary.

Applied Skills Assistant 12 (YED-2A)

Prerequisite: Min. 73% average in Junior Level of Subject Area or Permission by subject instructor

Teacher responsible: All Applied skills teachers

This is a participatory course that prepares and motivates students to provide assistance to others in their schools and communities. Students will work under the supervision of the applied skills teacher or mentor to provide the assistance to students as individuals and / or small groups in a variety of learning activities and contexts. Students will provide assistance in various applied skills classes such as, Food Studies, Textiles Studies, Woodwork, Automotive, Vinyl Graphics, Drafting and Metalwork. Students will develop instructional skills, communication skills, interpersonal skills, leadership skills, teamwork, and conflict management. Students will apply their skills in tutoring and mentoring roles and acquire an appreciation of the importance of lifelong learning and helping others.

Art Foundations 12 Extended Day (AF12) *Fine Arts*

This course has been designed for students who have a passion and talent for Art & Design. AF12 is an extended day class which takes place after school on Mon. & Tues. from 2:30-4:00 for the school year. Students will be mainly painting in an open studio environment. Assignments are thematic and students must be motivated and able to self-direct. AF12 does not take the place of a regular Art class.

Automotive Technology 12 (AT12) Applied Skills

Prerequisite: AT11 with 60% minimum.

Recommended: ATD12 to be taken during the same year

Detailed instruction concentrating on specific procedures and processes of automotive repair and maintenance. Students will learn the function and repair of components of the automobile. Emphasis is placed on mastery of specific skills, stressing quality as well as work habits. Students are expected to work independently and to undertake a major project during the semester. Because of the practical nature of this course considerable emphasis is placed on participation. Theory work accounts for about 30% of the year's work.

Topics to be covered include:

The automobile:

- electrical system
- charging and starting systems
- emission control systems
- trouble shooting (diagnostics)
- other areas of auto service that students wish to know

Automotive Technology 12: Engine & Drive Train (ATD12) Applied Skills

Prerequisite: AT11 with 60% minimum

Practical and theoretical experience in Engine Rebuilding. This project-driven course spends extensive time on disassembly, measuring, machining and reassembly of automotive engines. Engines will be supplied for student projects, or students may supply own. Because supplied engines are pre-sold, ONLY students with a serious work ethic should apply. Guest speakers from a few professional trades will be giving presentations. Time permitting, students might be involved in engine replacement.

Automotive Technology 12: Extended Day (ATE12) Applied Skills

Extended Day Course - 1 day - three hours per week (September-June) on Thursday afternoons.

Prerequisite: AT11 with 60% and instructor's permission.

Designed for students who wish to continue learning automotive mechanics, but don't have space in their daily schedule. Also for students who wish to take more than one block of mechanics. This course will involve EXTENSIVE hands-on in shop work and the opportunity to visit career related businesses and shows. Emphasis is placed on mastery of specific skills, stressing quality as well as work habits. Where possible students will work on their own vehicles. The school's involvement in motorsports with its dragster program will also be a part of the course. Possible special guest visits from Automotive Specialists and Race Teams. Because of the extensive practical work, ONLY students with a serious work ethic should apply.

Automotive Technology 12: Women Only (AT12) Applied Skills

Prerequisite: Female students with a 60% minimum in AT11.

Ladies wanting more advanced automotive skills and less theory work (about 30%) then this is the class for you. A quick review of tools and safety (in case you forgot) and then we're off to newer topics, like the starting and charging systems. Students are again encouraged to work on their own or parent's vehicles when possible. We will start with the oil changes and maintenance inspections and then expand to more

advanced servicing depending on individual desires and abilities. Because of the practical nature of this course considerable emphasis is placed on participation.

Biology 12 (BI12)

Recommended: 73% in BI 11 and CH 11

Intended for serious students who are continuing their education at university or other post secondary institutions. Students will be expected to do 1.5 hrs of homework every day. Experiments and dissections will be done to illustrate basic physiology. Major topics include:

- a) Cell Biology - cell structure, biochemistry, DNA, biotechnology
 - b) Cell Processes and Applications - protein synthesis, cancer, cell membranes, enzymes
 - c) Human Biology - study of body systems: digestive, circulatory, respiratory, nervous, urinary, reproductive
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Business Technology 12 (DM12) Applied Skill

Learn professional software required in the business world. Gain proven technical skills employers look for in today's innovation economy. Become current with the IT industry in learning key business software applications, and gain real-world experience in office procedures. Learn to accurately format a research paper with table of contents, page numbering, and references. Enhance your learning with the Corporation Inc. office simulation game!

Calculus 12 (CALC 12)(see flow chart at the end of document)

Prerequisites: Pre-Calculus Math 11 with 80% and enrolled in Pre-Calculus Math 12. Intended to meet several objectives.

To provide students with:

- 1) skills in calculus while they are still in high school.
- 2) a better preparation for calculus in college and university

Content will include units on differentiation and integration and applications of each. Students who plan on registering in a university or college math course are strongly recommended to take this course.

Chem/Bi University Prep 12 (YMIS 12A)

Prerequisites: CH11 with at least 73% and/or BI11 with at least 73%.

Corequisites: BI12 and/or CH12

Designed for students taking Biology 12 and Chemistry 12 who are planning to enroll in university science courses. The focus of this course is twofold.

The first goal is to ease the transition for students into first year sciences at university. This will be accomplished by having students study university topics in chemistry, biology, and statistics. Students will perform university level laboratory research and technical report writing. Lab skills are emphasized.

The second goal of the course is to allow students more opportunity to study both Chemistry 12 and Biology 12 by solving complex higher-level problems in order to

enhance their chances to earn Entrance Scholarships to universities. The theme of technology will be used to both support the above two goals and allow the students to be more prepared for the technology of the future. Learning outcomes for the course are grouped under the curriculum organizers: Thinking Skills, Communication Skills, Research Skills, and Technology Skills. Rationale: This course has been developed to allow students to be more successful in University Chemistry and Biology both financially and academically.

Students that have taken Chem/Bi University Prep, year after year, return to tell us how much better prepared they were compared to their peers in first year at college or university. You will excel in the lab classes at university after taking this course. This course will help you in the future as well as your grade 12 year.

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Chemistry 12 (CH12)

Prerequisite: CH 11

Corequisite: One Math 12 or permission of the instructor.

Strongly recommended: Min.73% in both CH 11 and FOM11 or PREC11 since CH 12 is highly mathematical.

This course is intended for serious students who are continuing their education at university or other post-secondary institutions. Students will be expected to do 1.5 hrs of homework every day. A scientific calculator with exponential and logarithmic functions is required. Provides an in-depth examination of several important branches of Chemistry.

The major topics include:

- a) Chemical Kinetics
 - b) Chemical Equilibrium
 - c) Solubility
 - d) Acids, Bases and Salts
 - e) Oxidation-Reduction
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Choral Music: Concert Choir 12 Extended Day (CMCC 12) Fine Arts

Prerequisite: Concert Choir 11 or permission of the director.

Open to all students in Grade 12 who wish to sing. Further your understanding of the voice and music theory. Devoted to the improvement and understanding of the singing voice, and to the improvement of the ensemble. The emphasis of this course is performance of music in a variety of styles.

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Communications 12 (COM 12)

Students will write a provincial exam in January or June. This exam will differ in content from the regular English 12 exam. Designed to meet the needs of students who do not plan to go directly to university as well as students who have had a history of difficulty in English courses. Follows a sequence of development from basic to advanced skills in listening, speaking, reading and writing. Literature, which forms approximately one-third of the course, will be interwoven into the course. Students who have weak English skills will be asked to choose Communications 12 rather than English 12. Because spaces in Communications 12 are limited, transfers into this course from English 12 may NOT be possible once the semester has begun. Students are advised to follow their English teachers' recommendations.

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Community Recreation 12 (YPR 12A)

Prerequisite: PE 10, YPR 11A

Portfolio Evidence: Personal Health, Employability Skills

Community involvement and Responsibility, Education and Career Planning

Community Recreation...the adventure begins here.

Tired of traditional PE activities like fitness testing and shuttle runs? Looking for a little adventure? Have you ever wondered what it would be like to explore the great outdoors? Imagine standing at the top of a mountain peak looking down at the Fraser Valley. Taste the Kool-Aid coloured water from a glacier lake. Feel your legs tire as they hold you tight to a cliff-face wondering if you can stretch your hand to the next hold. Picture the whitewater flying in front of you as you hurtle through a raging river in a kayak, struggling to stay clear of the undertow ahead. Adjust your snowboard to the sound of a snowy wind before taking on the next double diamond. This is Community Recreation.

This course gives students an opportunity to build on their PE 9 and 10 experiences with the addition of even more real-world active lifestyle and adventure opportunities.

Selection of in-school activities will be based on student interest levels. In-school activities will include classroom sessions learning to plan and prepare for adventure activities on the snow, rock, trail, and river.

Depending on class interest, leisure opportunities in the community may be available to further classroom activities. In the past, classes that have chosen this enhancement opportunity have gone bowling, racquetball, golfing, batting cages, judo, mini-golf, curling etc. once a week to supplement their in-class leisure studies at a cost of \$60.00 a student.

In addition, students will be given the opportunity to go on many different adventure outings offered as curricular enhancements. These opportunities will include hiking or backpacking, river rafting or kayaking, camping, snowboarding or skiing, paintballing, rock climbing, mountain biking, and more. Participation in the adventure outings is not mandatory but is recommended. Non-participation will not affect a student's grade. A typical week would be similar to the PE 11/12 example.

Course evaluation will be based entirely on attendance, attitude, and participation. There is no course fee for this class. All expenses associated with the adventure and leisure enhancement opportunities will need to be covered by the student.

Adventure Opportunities

Backpacking/Hiking/Camping: Two night backpacking trip to the Black Tusk

Snow Sports: Up to Four days Snowboarding ; Snowshoe trek at Hemlock Mt.

River Sports: Running the Chilliwack River in inflatable kayaks; Flatwater inflatable kayak training; Overnight camp-out

Rock climbing: Indoor climbing at Flashpoint rock gym; Climbing/Rapelling Hatzic Rock

Paintball/Orienteering: Sniperz Paintball

Community Recreation Extreme 12 Extended Day (YPR12A)

Recommended: YPR10A

Required: PE10 and instructor approved competence in the areas of backpacking, boardsports, rock climbing, mountain biking.

For the outdoor enthusiast who is looking for timetable flexibility and a greater challenge than provided by the regular Community Recreation offerings. This full year linear course will focus solely on learning about and preparing for adventure outings in the following areas:

TREK: Backpacking and Hiking

Highlight: a three day/two nights backpacking trip to Garibaldi Lake and the Black Tusk Peak in Garibaldi Provincial Park.

RIVER: River Rafting/Kayaking

Highlight: an overnight camp-out, flat-water kayak practice, and a river run down the Chilliwack River in a raft or inflatable kayak (water levels depending).

SNOW: Snowboarding/Skiing Highlight: up to seven day trips to Hemlock Mountain for snowboarding and skiing.

ROCK: Indoor and Outdoor Rock Climbing

Highlight: indoor climbing and belay practice at Flashpoint Rock Gym, and outdoor climbing on the Sumas Bluff and Hatzic Rock.

BIKE: Mt Biking...Cross-country and Downhill.

Highlight: completing the Vedder Loop, home to the world class Dilemma trail.

PAINT: Adventure Sports Games with a Paintball Gun

Highlight: six day trips to Sniperz Paintball in Chilliwack.

Students will meet on-line to complete learning modules and assignments in each of four major adventure areas. At the culmination of each unit, students have the option of putting together a trip plan for a desired outing. Alternatively, students can put their knowledge into practice by planning for and attending some of the many different adventure outings that are offered each year. Community Recreation Extreme students have their pick of all adventure outings offered in the Community Recreation Program. Typically, students will earn 100 adventure hours to enhance their studies. The cost of these enhancements will vary, and will be the responsibility of the student.

Comparative Civilizations 12 (CCN12)

Open to both Grade 11 and 12 students. This course is a review of most of the cultures from 40,000 years ago up until 1917. No exam or tests. Assessment will be done through projects; a study of a National Geographic textbook, and notes and discussions based upon many videos about individual cultures.

Cultures studied will be Neanderthal, Cro-Magnon, Egypt, Greece, Rome, China, India, Japan, the Aztec, Inca and Mayans, the Middle Ages, the Renaissance and Reformation. As well the Social, Cultural, Industrial, Scientific and Political Revolutions of the past 500 years will be covered. Once a week there will be an in-class question and discussion period. You will be encouraged to pursue your own interests in presentations, class discussions, videos, and projects. Embark on a fun-filled adventure that unlocks your imagination and inspires dreams of travel to distant lands.

Computer Programming 12 (ICTP12)

Deepen your understanding of code and learn **Python** and **C++** as well as **Java** and **JavaScript**. Java is emphasized as most post-secondary introductory level programming courses include Java. Advanced topics are covered, such as: Methods, Inheritance, Arrays, Recursion, GUIs. Create and post your own online calculator on a live website! There is no prerequisite for this course.

Digital Photography & Graphic Design 12 (VAMT12) *Fine Arts*

Prerequisite: Students must have completed Digital Photography 11 before enrolling in Digital Photography 12

Students will explore the elements of art, principles of design, and composition while exploring the genres of landscapes, architecture, still life, portraits etc.

All students must bring a digital camera to class each period, preferably a DSLR digital camera.

Drafting & Design 12: Advanced Design (DDA12) *Applied Skills*

Prerequisite: Drafting Level 1

Career Prep and dedicated technology students will complete their pre-college drafting training with these courses. Students will be responsible for designing their own projects, choosing from the wide range of possibilities: mechanical, architectural or engineering. Students bound for a career in engineering, architectural design or presentation graphics should seriously consider the benefits this course offers. This course also provides scholarship and bursary opportunities.

Drafting & Design 12: Architecture & Habitat Design (DDH 12) 4 credit *Applied Skills*

Prerequisite: Drafting Level 1

This course is for students with interest in the growing fields of architecture, engineering, interior design and building construction. The students will use computer programs such as AutoCad and Solid Edge and learn how to design houses and commercial buildings. These projects would include their own designs and development of a full set of plans to include floorplans, elevations, cross sections, wall details, site plans, and modeling. The use of 3D computer programs allows the students the opportunity for a computerized walk through or a 3D presentation. This course also provides scholarship and bursary opportunities.

Drafting & Design 12 Engineering & Mechanical Drafting (DDE12) *Applied Skills*

Prerequisite: Drafting Level 1

Learn how to design and draw parts that would be manufactured and assembled to complete larger projects. Learn computer programs such as Solid Edge and AutoCad. Learn advanced orthographic drawing skills, isometric drawing, 3D drawing and rendering, advanced modeling, and production techniques. This is an excellent course for those who are looking at careers in the engineering, design, and manufacturing industries. This course also provides scholarship and bursary opportunities.

Drama: Film & TV 12 (DFT12) *Fine Arts*

Prerequisites: 70% min. in DFT11 or Acting 12 and permission of instructor.

The skills learned in DFT11 will be built upon to create more advanced and complex videos. Film history and theory are a major component of this course. There will be research and written assignments. Students will be expected to put in time beyond scheduled class time.

Economics 12 (EC12)

What is money? What is pricing? Learn how economics affects your daily life and the global community. Discover why some countries are rich and other are poor. Learn through various project-based games, such as: the Concert Tour Game, the M&M game, RealLives, Stock Market simulation, Global Grocery List Project.

NEW**Economics 12 is accepted as an approved grade 12 course at most universities.

English 12 (EN12)

Prerequisite: EN11

Re-emphasizes the more mature development of reading, writing, speaking, and listening skills. There is also a more sophisticated approach to the study of literature.

Students will write a provincial exam in January or June.

A. Literature: Novels, plays, essays, poems, and short stories are studied both intensively and extensively for the following reasons:

1. Students learn to appreciate literature as a means to understanding themselves and society. Students identify and discuss values, attitudes, behavior, and the human condition in general.
2. Students study a variety of literary forms from different times, places, and authors so that they may gain an appreciation for the scope of the literary heritage that is theirs.
3. Students develop skills in analysis, criticism and evaluation by exploring theme, point of view, and character development.
4. Encouragement is given to read for enjoyment and for information.

B. Composition: The emphasis is on the writing process. Students are also challenged to progress toward more sophisticated writing styles.

English Literature 12 (LIT12)

Prerequisites: It is recommended that students applying for this course have achieved 70% in English 11 and have a strong interest in reading and discussing literature.

Do you love reading? Are you interested in the classics? Do you like class discussion? Then consider English Lit. 12!

This is a lively course which covers literature including the action packed epic poem Beowulf, the classic medieval romance Sir Gawain and the Green Knight, the enlightening Canterbury Tales, pastoral poetry, sonnets, Shakespeare's The Tempest, Milton's amazing Paradise Lost, the Restoration and the Eighteenth Century, the Romantic Age, the Victorian Age, and writers from the twentieth century.

The course also examines important historical events of the various time periods which impacted the works of the authors. Sound recordings and videos are used to help students understand concepts. Class participation is a key element for success in this course. Students are provided with a comprehensive workbook to enhance understanding and stimulate discussion. There are also opportunities for students to choose specific topics of interest to pursue in-depth for individual projects.

This course is a must for those considering the Humanities at the post-secondary level. It is also wonderfully entertaining and enjoyable for those who just love literature.

English Literature 12 may be used to meet university entrance requirements for various post -secondary programs.

Entrepreneurship 12 (ENT12) *Applied Skills*

Learn how to run your own business! In Entrepreneurship 12 you will have the opportunity to create a business venture and the opportunity to carry out that venture! Topics in the course include the skills necessary to become an entrepreneur, how to acquire those skills and how to implement them in a business situation. You will also learn how to manage a stock portfolio and run an online version.

Family Studies 12 (FM12) Applied Skills

An interactive two module course that will cover interpersonal relationships and housing (design and finance). You will be given an opportunity to consider your future while focusing on personal development within relationships, independent living, commitment and marriage, family life, and living environments. This class provides many opportunities for discussion and interaction, and incorporates 'real' life activities and experiences as much as possible.

Fashion Design 12 (YVHE 12A)

Prerequisite: TXT11 & 12 or teacher permission

For the Grade 12 student who has completed Textiles 10-12 and would like to further explore fashion design and pattern development. Projects will be determined in consultation with the teacher, and may include a skirt, dress, grad dress, tailored jacket, or other garments. Students will draft patterns and/or use computer-generated slopers. Technical and croquis sketches, and some exploration of the fashion industry will also be included. Basic patterns, fabric and notions will be supplied. Most students will want to personalize the course and should expect a cost of \$75-\$200.

Financial Accounting 12 (FAC 12) Applied Skills

A minimum of 67% in PREC11 or FOM11 is recommended.

This course is designed as an **introduction to financial accounting concepts** for those planning to pursue post secondary studies in accounting, finance, business management or commerce. It covers basic accounting concepts for both financial and managerial accounting and will give you a good head start on accounting courses at the college or university level.

Foods & Nutrition 12 (FDN12) Applied Skills

Begins by reviewing some cooking basics. After a brief re-introduction to the foundational skills of cooking, you will work through various units based on Healthy Living. Food Safe Level One is also provided for those wanting to become involved in the food industry. You will learn how to make pasta and various breads, along with international foods and baked goods. This course concludes with students planning and cooking a complete meal based on specified criteria.

Foundations of Math 12 (FOM 12) (see flow chart at the end of document)

Prerequisite: 65% in FOM11.

This is an academic course.

Topics covered in this course:

- Finance
- Logic
- Probability
- Relations and Functions

Note: Requires a Graphing Calculator. Recommended calculator is the TI83 +. You will need your own calculator for in-class work and homework.

Français Langue 12 (FRAL 12)

Students will have an oral provincial exam in May and will write a provincial exam in January or June.

Prerequisite: FRAL11.

Grammar: Reviewing of FRAL 9-11 grammar concepts and verb tenses.

Literature: Novel L'étranger, the play (Florence) and poems from various times, places and authors are studied so that students learn:

- an appreciation for literature as a means of understanding themselves and the intercultural community
- to discover their cultural identity
- to use their bilingual skills in society

Composition: Emphasis on the written process in particular: essay, description and narration.

The FOUR skills (listening, speaking, reading and writing) continue to be developed.

Recommended: Petit Larousse de poche, Bescherelle

French 12 (FR 12)

Prerequisite: FR 11 with 73%

Texts: "En Direct 2", plus other supplementary reading texts (such as Rencontres and Découvertes)

French 12 is an elective course for students wishing to become more proficient in speaking and writing French. By the end of the course, students will be able to sustain spontaneous conversation in the target language, and to write in French with depth and clarity. This course is ideal for students planning to pursue post -secondary courses in Arts or Education.

Geography 12 (GEO12)

Prerequisite: 66% avg. in SS11, 72% avg. in ESci. 11 and/or

Geography 12 is a multi-faceted course which integrates many subject areas. It has been designed to introduce students to the field of physical geography. Physical Geography is the study of the natural environment (the land, the atmosphere and the biosphere) and of the interaction between humans and the environment. Major units will include (1) modern mapping, (2) resource management and environmental sustainability, (3) biomes and world climates, (4) tectonic processes, (5) weather and climate and (6) gradational processes. Geography 12 'bridges' the field of science with those of the liberal arts and provides a solid base for students who go on to study geography at the college or university level. This course is predominantly project-based and mirrors the content of a first year college/university course. To be successful, students considering this course should already have strong study skills and be self-motivated. For interested and eligible students, an additional two (2) Independent Directed Studies (IDS) credits are available upon completion of specific course requirements.

Geology 12 (GEOL12)

Prerequisite: at least ONE of the following CH 11, PH 11, BI 11 (65% or better), or ESC 11 (75% or better)

****Students with 80% or better in Science 10 may take Geology 12 in their grade 11 year without the above prerequisites. This class is regarded as a science credit for many university admissions.**

Venture into the outdoors with Geology 12. Learn about the physical world around you. Geology 12 consists of a range of topics from earthquakes and volcanoes to the study of planets within our solar system. The major topics include:

- a) Earth materials
 - b) Internal Earth structures and processes e.g. plate tectonics, earthquakes and volcanoes.
 - c) Surface processes e.g. glaciers and rivers.
 - d) Geological time and the fossil record
 - e) Earth resources
 - f) Planetology - the study of planets in our solar system.
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German 12 (GE 12)

Prerequisite: GE 11

Provides an opportunity for the student to learn about German literature in the form of short stories and poetry. Grammar is studied, but reading comprehension of modern works and reading is included.

History 12 (HI12)

Prerequisite: SS11 with a 70% or higher. History 12 is an academic course, but there is NO provincial exam.

Islamic jihadi terrorism, Israeli-Palestinian violence, the economic rise of communist China, and the militaristic tendencies of the United States: what is going on with our world? Learn about the roots of these, some of today's most pressing current events, in History 12!

In this course, using a combination of guided projects and lectures, we will delve into the major events, people, institutions and ideological forces that shaped the Twentieth Century and how they continue to reverberate through the Twenty-first. By examining how historical forces have shaped the modern world, teaching you the tools and methods of the social scientist, and honing your historical thinking skills, History 12 will prepare you for both post-secondary schooling and lifetime success!

Instrumental Music: Concert Band 12 (IMCB 12) *Fine Arts*

Prerequisite: IMCB11

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.

Recommendation: minimum one year of instrumental experience or contact Ms.Wade.

Instrumental Music: Jazz Band 12 Extended Day (IMJB 12) *Fine Arts*

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 and bass guitar. Students must have a minimum of two years playing experience. Must be enrolled in Concert Band or contact Mr. Hearty. Students enrolling in a music elective may be allowed one study block during the regularly scheduled school day if 2 extended day courses are taken.

Law 12 (LAW12)

Prerequisite: SS11

Law 12 is a course that focuses on the structure and function of Canadian law. The course concentrates on four areas of law including: Foundations of Law (Principles, Sources & Structure), Criminal Law, Civil Law (Tort & Contract), and Family Law. The

curriculum is designed to provide learning opportunities for students with a wide range of interests. It is especially recommended for those interested in careers in law, criminology, law enforcement, court services and small business.

Other topics that are covered include: Charter of Rights & Freedoms, Human Rights Act, Employment Law, Landlord/Tenant Law, Criminal Code, Marriage & Divorce Acts

Marketing 12 (MK12) Applied Skill

Why did you buy that Lulu Lemon or Nike jacket? Take an inside look at how advertisers create ad campaigns to target you! Discover how Google AdWords works. Starbucks' Global Marketing success, and controversy around The GAP's Product Red and other current topics. Discover secrets of marketing research the public doesn't know, and learn how marketing is the force that combines all aspects of business strategy. In Marketing 12, you will develop marketing strategies and skills to present a product, a service, and an idea in the business environment of your choice.

Metal Fabrication & Machining 12: Forging and Foundry (MFM12) Applied Skills

Prerequisite: MTL9 or MTL11A or MFM11

This is an intermediate course which will introduce students to arc and gas welding and molten aluminum casting. The course will also include traditional blacksmithing and modern metal fabrication. Heavy emphasis will be placed on safe work practices and proper setup of oxy-acetylene torches. Students will work both individually and in teams through the various work stations.

Peer Tutoring 12 (YIPS12B)

Prerequisite: Gr. 11/12 students with an 80% average in previous school year.

Students who take Peer Tutoring must be academically strong to tutor in subjects such as English, Math, Social Studies, Science, French, French Immersion, or German. Regular attendance, integrity, and respect for program expectations are requirements for peer tutors.

Students will learn about individual academic, social, and cultural differences. Students will study a variety of approaches and skills to assist their tutees' learning. Students will practice self assessment and reflection. Students will develop communication, interpersonal relationship, leadership, and conflict management skills. Activities include creating lesson plans, teaching lessons, and analyzing learning styles. Peer tutors are expected to be cooperative, enthusiastic, and hardworking. Peer tutors must follow instructions, show initiative, and be willing to learn course content they do not know.

This course is designed to complement Peer Tutoring 11. Students interested in Peer Tutoring must submit an application form which they may obtain from their counselors, or download the "Peer Tutoring Application Form".

Physical Education 12 (PE 12)

Prerequisite: PE11

PE 11 and PE 12 give students an opportunity to build on their PE 9 and 10 experiences with the addition of even more real-world active lifestyle opportunities. Selection of in-school activities from the previous list will be based on student interest levels.

Some fitness activities may be included. Depending on class interest, leisure opportunities in the community may be available to enhance classroom activities. A

typical week might appear as follows:

Monday: An outdoor or gym activity Tuesday: Swimming at MRC Wednesday: An outdoor or gym activity Thursday: Self-paced work-out in the Fitness Room Friday: Skating/Big Ball Hockey at the MRC

Students will be evaluated on attendance, attitude, and participation, and fitness levels and improvement. A fitness evaluation will also take place each term.

Physical Education Leadership 12 Extended Day (YHRA12B)

Extended Day Full Year Linear Course *Enrollment by instructor approval.*

The grade 9-12 students in this course will work in teams to plan, promote, and run the intramural activity program during the lunch break. They also put on special activity days throughout the school year. As an extended day course, class will meet once a week on Tuesday mornings from 7:15-8:00 am.

Physics 12 (PH12)

Recommended: PH 11 with a 70% minimum and PREC11 with a 70% minimum.

Students will be expected to attend "extra-curricular" exam preparation sessions near the end of the course.

Students will apply vector analysis to a variety of problem-solving situations. This course is intended for serious students who are continuing their education at university. Students will be expected to do 1.5 hrs of homework every day. Major topics include:

- a) Kinematics (motion)
- b) Dynamics (forces)
- c) Energy & Momentum
- d) Equilibrium (static forces)
- e) Circular Motion & Gravity
- f) Electrostatics
- g) Circuits
- h) Electromagnetism

Pre-Calculus Math 12 (PREC 12)(see flow chart at the end of document)

Prerequisite: PREC 11 with 70%

This is an academic course.

Designed for students who have a particular interest in mathematics, or who have career aspirations in the fields of engineering, mathematics, the sciences, economics, and some business programs. The main purpose is to develop the skills needed to continue on with the study of calculus. This course relies heavily on topics covered in previous grades. It is strongly suggested that students with less than 60-65% in Pre-Calculus Math 11 discuss their course selection carefully with their teacher.

Topics include graphing transformations, polynomial, rational and radical functions, logarithms, trigonometry and combinatorics.

Student success is often a combination of good prerequisite skills along with good attendance and strong work habits.

Psychology 12 (YPSYC 12A)

Recommended: Psychology 11 or teacher's permission

Does your career choice involve human interaction? This course is designed for anyone

who expects to work with people. Course content will enhance the learning experienced in Psychology 11 and will expand into Social Psychology. Students will experience a college/university type course where they will learn to: lead and work in seminar groups, write in APA style, design and enact both qualitative (case studies) and quantitative (surveys) research projects. You will be able to explore burning psychological questions!

Students with good marks in this course have been known to bypass first year university/college psychology courses and move directly into second year courses.

Secondary School Apprenticeship 11A (SSA11A)

For students who are eligible for registration under the Secondary School Apprenticeship program and have completed a total of 120 hours of work in their selected trade.

Secondary School Apprenticeship 11B (SSA11B)

For students who are eligible for registration under the Secondary School Apprenticeship program and have completed a total of 240 hours of work in their selected trade.

Secondary School Apprenticeship 12A (SSA12A)

For students who are eligible for registration under the Secondary School Apprenticeship program and have completed a total of 360 hours of work in their selected trade.

Secondary School Apprenticeship 12B (SSA12B)

For students who are eligible for registration under the Secondary School Apprenticeship program and have completed a total of 480 hours of work in their selected trade.

Social Justice 12 (SJ12)

[Link to website for integrated resource package.](#)

http://www.bced.gov.bc.ca/irp/pdfs/social_studies/2008socialjustice12.pdf

A course that aims to help students:

- acquire knowledge to help them understand the causes of social injustice
- learn how to apply critical thinking skills to issues of fairness and equality
- learn to become active citizens who are agents of change

Themes and topics that students will be looking at are:

- diversity and equality in our society
- human rights abuses here and away
- legal issues surrounding social justice topics
- moving towards a socially just world by taking ACTION

The course aims to get students actively involved by teaching them how they can work towards change. There is NO provincial exam.

Strength & Conditioning 12 (YHRA 12C)

Want to work out but can't find the time, or afford a gym membership fee? Then this is the course for you. Strength and Conditioning gives you an opportunity to both set and pursue fitness goals, and do this during the school day so as to not interfere with any free time/afterschool activities you may have.

Resistance/Weight training, speed and agility training, plyometrics, flexibility, and cardio vascular training are all aspects of fitness focused on in this course. If you want to be in the best possible shape for whatever activities you are involved in, and you want to perform better than you ever have before, this is the course for you. Course evaluation will be based on daily performance in class, monthly physical testing, weight training log books, and quizzes.

Strength & Conditioning 12 Female (YHRA 12C)

See Strength & Conditioning 12 description.

Student Leadership 12 (Government) Extended Day (YIPS 12A)

Trains student leaders in the various aspects of student leadership and provides regular class time for performance of tasks associated with the office to which each has been elected. Those elected to student council must take this course and teacher approval is required for non-elected students. Class time TBA but will be extended day.

Studio Arts 12: Ceramics & Sculpture (SACS12) *Fine Arts*

A continuation of Studio Arts 11: Ceramics & Sculpture. Students will be expected to work at a more advanced level in hand building & casting techniques. Projects will be self-initiated as well as teacher-initiated. Students will answer problem-solving assignments in the creation, design and completion of functional and decorative 3-dimensional work. Students must also participate in class discussion, analysis & critiques of 3-dimensional art in historical, contemporary & personal images. All projects will be either glazed, stained, patina finished, or rust finished etc. Students will also learn plaster casting techniques & latex casting and how these can be used to create multiple forms.

Studio Arts 12: Drawing and Painting (SADP 12) *Fine Arts*

Prerequisite: SADP11 with a 70% min.

Designed for those students who wish to continue specializing in these visual expression areas. Students will be expected to work in a studio format and to develop and build on previous course work. They will also be expected to develop and build a personal approach to imagery. Students will maintain a sketchbook and a folio of finished works. Assignments in graphite, acrylic, conte crayon, charcoal, etc. will be given. Students will be required to develop critical judgements concerning art. Historical and contemporary aspects of drawing and painting will be considered and researched. Grade 12 students will be expected to show increased mastery in compositional and expressive skills in drawing and painting.

Superfit 12 (YSPFT12)

Prerequisite: Superfit 11 or permission of instructor

This class is no sweat...well, maybe a little. This fitness to music class will include many different workout routines offered in most Fraser Valley athletic clubs, and will also include the occasional walk/run, day at the pool, or day in Mouat's state of the art fitness room. But be warned. It is NOT aerobics and it is NOT body building. This course tones and conditions the body while raising the metabolism and burns fat. It will help increase muscular endurance and is good for students at ALL levels of fitness. Want to look good and feel good? This is the course for you.

Textiles 12 (TXT 12) *Applied Skills*

Recommended: TXT 11 or teacher's permission

Expand your design, pattern drafting and clothing construction skills in this course! Advanced construction and fitting techniques will be explored, using computer-aided drafting and/or commercial patterns. Projects may include:

1. Lined jacket or coat (commercial pattern)
2. Advanced sewing machine and Serger use (pin-tucked pillow)
3. Shirt, hoody, or top of own design
4. Project of own design or commercial pattern using difficult fabric

Note: Basic patterns, fabric and notions will be supplied. Most students will want to personalize the course and should expect a cost of \$100-\$200.

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Theatre Performance: Acting 12 (TPA 12) *Fine Arts*

Prerequisite: Permission of instructor, Drama 10 and TPA11 (70% min.) strongly recommended.

Only those students who have shown a keen interest in the subject will be accepted. Performance in front of an audience is part of the course.

Getting deeper into risk taking and trusting your instincts is what is needed to succeed in Acting 12. Challenging scene work and improvisations in the beginning will be followed by the audition process and monologues. Script analysis and performance is a focus throughout. Good attendance is integral to success.

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Vinyl Graphics 12 (DDT12) *Applied Skills*

Prerequisite: Students taking this class must have taken one of the following courses: Vinyl Graphics, Drafting, Woodwork or by teacher's permission.

A multi level course designed to provide a broad range of computer manufacturing & processing skills. Focuses on three pieces of state of the art technology, the Roland SolJet Pro II EX, The XYZ Millenium Router, and the Universal Laser Engraving System. Learn how to use the software to design projects, and process them using the appropriate and available technology. Projects are based on real life problem solving and professional experiences. By the end of the course students will be eligible for certification on the software and equipment used in the program.

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Vinyl Graphics & Digital Imaging 12 Extended Day (DDT12)

Students will learn about the industry of sign making using state of the art technology. Learn how to make vinyl cut signs, vehicle graphics, banners, posters and stickers. For students wanting to earn extra income, there are employment opportunities and work experience available within the community and within the class.

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Women in Tech 11(ID11) (Level 1) *Applied Skills or Fine Art*

This course is open to grade 11 and 12 students.

This is an introductory course that will introduce female students to jewelry making, woodworking, art metal, 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
 - yoyos, pens, bowls, goblets
 - jewelry boxes
 - stained glass
 - CNC made signs
 - vehicle oil change and basic maintenance
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Women in Tech 12 (ID12) (Level 2) *Applied Skills or Fine Art*

Prerequisite: ID11 or a grade 9/10/11 woodworking or metal course

This is an advanced course open to grade 12 students with one previous shop course. This course will build on students' shop experience. This is an excellent opportunity for girls who may find well paid careers in trades and technology. Projects will include designing projects using both wood and metal. Students will gain experience and knowledge in the following areas:

- computers in technology
 - project design
 - woodworking
 - metal art and jewelry
 - stained glass
 - car maintenance
 - safe operation and maintenance of tools
-

Woodwork 12A: Cabinet Construction (CJC12) *Applied Skills*

This course is open to all grade 12 students. This class will familiarize and/or upgrade the student with the correct use and safe operation of power equipment and hand tools. Emphasis is placed on traditional cabinet/furniture making techniques augmented with current computer controlled machine technology (CNC) production methods.

Projects can include, but not limited to:

- furniture (coffee tables, end tables, beds, entertainment stands)
- lathe turning- bowls, goblets and pens
- skateboards and long boards
- CNC machining of signs

This course also provides scholarship and bursary opportunities.

Woodwork 12B: Woodcraft Products (CJP12) *Applied Skills*

Prerequisites: one other woodwork course

An emphasis on **more advanced** cabinet making and wood joinery is studied in this course. This course enables students to create a wood-working project of their choice from start to finish. Students are encouraged to include the use of Computer Controlled Machines (CNC) to complete parts of their projects.

Students will be expected to:

- construct a project from a set of plans using a variety of joints
- design and build a project with traditional as well as CNC machinery
- estimate materials lists
- evaluate their own workmanship

Projects may include, but not limited to: furniture like desks, coffee tables, coat

racks, cedar chests, grandfather clocks etc.

This course also provides scholarship and bursary opportunities.

Woodwork 12: CAM Design (CJW12) Extended Day

120 Hours; *Applied Skills*

Prerequisite: Woodworking 9

This course is open to all grade 10-12 students after school one day per week, usually Thursday (2:30-4:30). This course enables students to create a wood-working project of their own choice from start to finish. Students will use stationary power tools such as the table saw, jointer thickness planer and computer controlled machine (CNC) to complete their projects.

This course also provides scholarship and bursary opportunities.

Work Experience 12A (WEX12A)

(This course must be taken with IDS12A)

Students will have the opportunity to explore their career interests through 100 hours of school-arranged volunteer work experience, typically without missing time from their other classes. Whether the student has identified his/her career interests or is still unsure which career path to pursue, this course will help all students develop basic employability skills and work toward making more informed choices about their future. **Satisfactory completion of WEX12A satisfies Graduation Transitions - Unit 2: Community Connections.**

Work Experience Preparation 12 (IDS12A)

(This course must be taken with WEX 12A)

Students will prepare in-class prior to having a school-arranged work experience in the community. The course includes self-assessment activities, job-search skills, resume writing, career research, and post-educational planning.

Satisfactory completion of WEX Prep 12 (IDS 12A) satisfies Graduation Transitions - Unit 3: Transition Planning.

Work Experience 12B (Wex12B)

This is an extended day course for gr. 12 students who have their own work experience through paid part-time and/or summer jobs. Students must document 100 hours of work and reflect on their learning in the work place. **Satisfactory completion of WEX12B satisfies Graduation Transitions - Unit 2: Community Connections.**

Writing 12 (WR12)

Prerequisite: English 10 or English 11

This course allows students to participate in the skills involved in creating different styles and forms of writing. Students will work together to develop various writing projects. Genres of writing may include the following: poetry, short-fiction, journalism, and screenwriting. This class also provides students with the opportunity to enter writing contests and submit their work for publication. This course is open to Grade 11 and Grade 12 students. Please discuss with your current English teacher.

Yearbook 12 Extended Day (YCCT12A)

2 days per week for a minimum of 4 hours per week.

Meeting times will be determined in September.

Prerequisite: Yearbook 11 and Grade 12 standing and instructor's permission

Previous experience in yearbook for anyone considering this course. Must own a good camera, digital camera preferred (3.1 Mega pixels or better). Students will be expected to advance all skills acquired in Yearbook 11 and assume an editorial role. Yearbook 12 students will also be responsible for assisting in the set up of the computer lab and serve as technology support during the year. Students will also be required to mentor other students, attend editorial meetings, proof and prepare pages before submission, develop the organizational structure of the yearbook, develop page templates and design yearbook pages demonstrating advanced knowledge of graphic design and desktop publishing. Students will continue to use both Adobe Pagemaker and Adobe Photoshop programs. This course is graded on the following criteria:

- very regular attendance
- ability to function as part of a team
- overall 'quality of workmanship'
- ability to meet deadlines
- various project/assignments
- fulfill responsibilities as an editor
- ability to provide tech support
- ability to proof and prepare pages

Math Department Flow Chart (see the following page)

Math Department Flow Chart

