

## Grade 11 Course Selection by Subject

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### **3D Animation 11 (YCCT 11C)**

Open to grade 10s

Do you love 3D movies? Provide motion to characters and objects you learn to make in Blender 2.5, the industry-standard open source 3D Model and Animation software. Learn the planning, principles, and fundamentals of animation. Create game ready animation, using advanced tools such as lighting, rendering and editing. Show your movies on the class YouTube channel!

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### **3D Computer Drafting & Design 11 (DD11) (Beginners Level 1) *Applied Skills***

Open to grades 11 & 12

Design your own cars, jets, houses or jewelry, with the latest 3D modeling software. Take your models home after printing them in the 3D printer. This course will be an introductory course using the latest current industry standard 3D modeling software used by engineers, architects and designers. Learn drafting skills and be a part of one of the most advanced design and modeling programs in the province. The focus of this course will be creative problem solving and personal design. This is an excellent course for those who are looking at careers in design drafting or looking to add technical skill to creative artistic designs.

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### **3D Computer Drafting & Design 11 (DDF 11) (Level 2) *Applied Skills***

Open to grade 11 students. **Prerequisite: Drafting Level 1.** See [Mrs. Beck's website: http://67.231.28.168/~pbeck/DR11OL/index.html](http://67.231.28.168/~pbeck/DR11OL/index.html)

In this course we will build on skills learned in level 1. While the main focus of this course is individual design and interest, students will learn to formalize designs and drawings as required by industry. Students will be using the latest 3D modeling software to learn current industry standard drafting skills. This is an excellent course for those who are looking at careers in design drafting or looking to add technical drafting skill to creative artistic designs. There is a growing demand for students with skills in 3D modeling in the fields of architecture, engineering, interior design, 3D animation, product design and construction.

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### **Accounting 11 (AC11) *Applied Skills***

Accounting 11 will introduce you to the basic fundamentals of a double entry accounting system. Accounting is a job skill; therefore, there will be considerable emphasis on performing to standards acceptable in the workplace. The program Simply Accounting, the Titan Business Simulation and the Monopoly board game will be used to reinforce the accounting concepts taught.

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### **Apprenticeship and Workplace Mathematics 11 (AWM11) (see flow chart at the end of document)**

**Prerequisite: a math 10 course.**

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 include Measurement, Geometry, Finances, Algebra and Statistics. It is each student's responsibility to investigate the requirements of any post-secondary program they may wish to pursue prior to selecting their pathway.

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**Art Foundations 11 Extended Day (AF11) *Fine Arts***

***Students must have instructor's permission and a 86% average to enroll.***

**An extended day class where all classes take place after school Mon. & Tues. from 2:30-4:00 for the school year.**

This course has been designed for students who have a passion and talent for art & design. Students will be mainly painting in an open studio environment. Assignments are thematic and students must be motivated and able to self-direct. AF11 does not take the place of a regular art class.

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**Automotive Technology 11 (AT11) *Applied Skills***

***Prerequisite: Gr. 11 or 12 student***

Introductory course designed to enable students to achieve a good understanding of fundamental concepts of the automobile. Students will be required to achieve a basic competency in the fundamental skills of automobile repair and maintenance. The skills and knowledge acquired in this course will be useful to future courses as well as everyday situations. It is intended that this course will give an insight into the basic construction and repair of the automobile that will prove invaluable in later life.

Where possible students will work on their own vehicles.

Theory work accounts for about 50% of the year's work.

Topics to be covered include:

- a) Safety in the shop
  - b) Shop tools and equipment
  - c) The engine - 2 & 4 stroke cycle
    - engine design (why engines are made the way they are)
    - engine performance and capacities
  - d) The automobile
    - how to change oil and filters
    - checking and adding fluids to the battery, transmission, differential, cooling system
    - inspecting brake linings for wear
    - how to do a tune-up
    - how to change and balance a tire
    - lubricate the chassis
    - other areas of auto service that students wish to know
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**Automotive Technology 11: Extended Day (ATE11) *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.

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### **Automotive Technology 11: Women Only (AT11) Applied Skills**

**Prerequisite: Gr. 11 or 12 Female student**

Ladies, take control of your car service!!! Don't get ripped-off by a slick salesman or mechanic. Learn what it takes to service and repair cars, find trustworthy specialty shops and more. You will learn the basics in car maintenance including oil changes, tune-ups, brakes, tires, exhaust and computer diagnostic testing. Yes, you need to get a little dirty at times, but that's part of the process. Also part of car care maintenance includes washing and detailing cars and maybe applying some stickers from the Vinyl Graphics room. Theory work accounts for about 50% of the semester's work and the rest is all shop. Students are encouraged to work on their own or parent's vehicles when possible. We start with the basics in shop safety and tools and move up from there, so if you know absolutely nothing then you're at the right place. The skills and knowledge acquired in this course will be useful to future courses as well as everyday situations. You might even choose to become an Automotive Technician like many previous Mouat students, but at the least you will know the inside workings of your car and become your car's best friend.

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### **Biology 11 (BI11)**

**Prerequisite: SC 10 with 73%**

Biology is a scientific discipline that studies the great variety of organisms and processes occurring in the living world. Biology 11 is an introductory academic course that builds a foundation for later studies in biology, both in grade 12 and at university. This course examines 3 major themes: Unity and Diversity, Evolution and Ecological Relationships. A study of the major groups of organisms will be covered in the following units.

- Adaptation and Evolution
  - Microbiology
  - Plant Biology
  - Animal Biology
  - Ecology
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### **Business Technology 12 (DM12) Applied Skills**

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!

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**Cafeteria Training 11 (CAFT11) Applied Skills**  
**Counsellor permission required.**

This class is offered to Grade 10, 11 or 12 students who have an interest in assisting students and the teacher in a food related setting. Students will provide assistance in cafeteria food preparation and service. Students must be prepared to work during some lunch times with time off provided.

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**Chemistry 11 (CH11)**

**Prerequisite: SC 10 with 73%. Co-requisite: Pre-Calculus 11**

**Recommended: Foundations of Math & Pre-Calculus 10 with 67%**

Students should have a good working knowledge of mathematics and are required to have a scientific calculator that will be required for most written exams. Chemistry 11 is an introductory academic course that builds a foundation for later studies in chemistry. Laboratory work will be used to develop the major concepts and the lecture material involves both reasoning and problem solving. The major topics include: a) Introduction to Chemistry b) Atoms, Molecules, and Ions c) The Mole Concept d) Chemical Reactions e) Atomic Theory f) Solution Chemistry g) Organic Chemistry

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**Choral Music: Concert Choir 11 Extended Day (CMCC 11) Fine Arts**

**Prerequisite: Concert Choir 10 or permission of the director.**

Available to students in Grade 11 who wish to sing. Students will further their understanding of the voice and music theory. Class time will be 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 11 (COM 11)**

This course is 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 11 rather than English 11. Because spaces in Communications 11 are limited, transfers into this course from English 11 may NOT be possible once the semester has begun. Students are advised to follow their English teachers' recommendations.

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**Community Recreation 11 (YPR 11A)**

**Prerequisite: PE 10 Recommended: YPR 10A**

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 colored 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 nights backpacking trip to 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

Rockclimbing: Indoor climbing at Flashpoint rock gym; climbing/rapelling Hatzic Rock

Paintball/Orienteering: Sniperz Paintball

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#### **Community Recreation Extreme 11 Extended Day (YPR11A)**

***Prerequisite: PE 10***

**Instructor approved competence in the areas of backpacking, board sports, rock climbing, mountain biking. Recommended: YCR10**

Comm Rec Extreme is 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 night 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. Comm Rec 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.

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**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.

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**Computer Programming 11 (ICTP11) *Applied Skills***

Open to academic grade 10s

Programming is a fundamental skill in this digital age! If you are a cellphone, YouTube, Netflix, Facebook user, learn to understand the logic behind them. This is an exciting, growing, challenging field that has impact in most aspects of everyday life. Develop problem solving skills and analytical abilities while learning how to: write in binary; code in Java and JavaScript; and develop 2D games and simple algorithms.

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**Digital Photography & Graphic Design 11 (VAMT11) *Fine Arts***

**Designed for all levels of photographers.**

**All students must bring to class a basic point and shoot digital camera with SD cards. If possible an entry level entry DSLR would even be better. I have a preference for Canon or Nikon cameras but any digital camera would be acceptable.**

This course will help students become well rounded in the fundamentals of digital photography. Students will learn: basic composition, some studio lighting, the use of Adobe Photoshop CS as applied to photography and time permitting Lightroom. Students will be permitted to go outside and shoot assignments based on what they are learning.

Students will also be required to take pictures on their own time. Students will be shown samples of desired outcomes at the beginning of each assignment. The class will critique all work.

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**Drama: Film & TV 11 (DFT 11) *Fine Arts***

Priority will be given to students who are currently in Grade 10 and going into Grade 11. Having Drama 10 is recommended but not required.

An introduction to the video camera and video production. Students will learn the basics of camera operation as well as simple editing techniques. There will be a

variety of projects to complete in a group format. The importance of preproduction and planning will be stressed. Must have the ability to work effectively in a team.

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**Earth Science 11 (ESC11)**

**Prerequisite: SC 10**

An overview of Earth Science, this course is a blend of many disciplines and how they relate to our planet. Earth Science uses aspects of Physics, Chemistry, Biology and Physical Geography. The major topics include:

- a) Introduction To Earth Science
- b) Atmospheric Science
- c) Oceanography
- d) Geology
- e) Earth's History
- f) Astronomy

While the topics included in this course are of general interest, students are asked to recognize that this course is academic in nature.

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**Economics 12 (EC12)**

Open to grade 11s

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.

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**English 11 (EN11)**

**Prerequisite: EN10**

Emphasizes the development of more mature reading, writing, speaking, and listening. The course is divided into two main areas: literature and composition.

**Literature:** Essays, novels, plays, poems, and short stories from various times, places and authors are studied to provide students with an opportunity to read good literature and to develop their comprehension, writing, and discussion and analytical skills. Emphasis is placed on students sharing insights gained from reading and discussion, and on an understanding of different human values.

**Composition:** Emphasis is on the writing process.

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**Family Studies 11 (FM11) Applied Skills**

An interactive two module course with lots of opportunity for group activities and discussion, as well as personal reflection. The focus is adolescence and child development. You will study topics relating to personality development, relationships, and the stresses of the teen years, conception to birth and parenting. Taking care of a computerized baby for 3 days (and nights!) is a project in this course.

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**Foods & Nutrition 11 (FDN11) Applied Skills**

This course is designed to further develop skills learned in Food Studies 9 and introduces Grade 10 -12 students to more advanced techniques in food preparation, planning and meal presentation. Students will also learn about food-borne illnesses,

food choices and nutrition. A variety of foods will be prepared such as flour tortillas, crepes, french bread, soups, pizza .....and the list goes on.

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**Foundations of Mathematics 11 (FOM11) (see flow chart at the end of document)**

***Prerequisite: Foundations of Math and Pre-Calculus 10***

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 include Measurement, Geometry, Trigonometry, Logic, Statistics, Quadratics, Systems, and Research. It is recommended that students purchase a graphing calculator. Graphing calculators will be provided to students but for in-class use only. It is each student's responsibility to investigate the requirements of any post-secondary program they may wish to pursue prior to selecting their pathway.

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**Français Langue 11 (FRAL 11)**

***Prerequisite: FRAL10***

While constantly reviewing FRAL8,9, and 10 grammar concepts and verb tenses, the focus will be on:

Imperative, Past and Present Infinitive, Present participle and Gerundive, Passé Simple and Reflexive verbs.

Literature: The novel (J'ai 15 ans et je ne veux pas mourir), the play (Bousille et les Justes or Zone) and poems from various times, places and authors are studied to provide students with an opportunity to develop their comprehension, writing, discussion and analytical skills.

Composition: Emphasis on the written process. The FOUR skills (listening, speaking, reading and writing) continue to be developed.

Recommended: Petit Larousse de poche, Bescherelle.

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**French 11 (FR 11)**

***Prerequisite: FR 10 with 67%***

Text: En Direct 1

A challenging course, especially for those students who do not have a solid grasp of the material studied in previous years. Oral participation skills, as well as a grasp of grammar concepts covered to date, are essential. As the focus in grade 11 and 12 will be mastering the grammar concepts, proficiency in spoken French is essential.

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**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 11 (GE 11)**

***Prerequisite: GE 10 or BGE 11***

Continues the study of oral and written German.

Students will develop language and comprehension skills through the study of grammar, short reading selections and participation in dialogues and skits.

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**Global and Intercultural Studies 11**

Intercultural competency is an essential skill for success in a 21<sup>st</sup> Century global environment. Through this course, students will increase awareness of their own culture and that of others in order to apply new knowledge when communicating and working with diverse communities, both locally and internationally. The course incorporates global awareness, inquiry, a language component and a local practicum. Students learn to be diversity leaders while working with International Students and new immigrants to the district. There is an opportunity for students to earn additional work experience credits with an extended practicum, if desired. Global and Intercultural Studies 11 is a required course for Global and Intercultural Experience 12 which includes an opportunity for travel to another country for an intercultural experience.

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**Instrumental Music: Concert Band 11 (IMCB 11) *Fine Arts***

***Prerequisite: BA 10***

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 see Ms.Wade.

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**Instrumental Music: Guitar 11 (IMG 11) *Fine Arts***

***For students with little or no previous guitar experience.***

Designed for those students who wish to learn to play guitar. The course content will include basic note reading, chord construction and chording patterns. Enrollment may be limited owing to availability of instruments.

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**Instrumental Music: Jazz Band 11 Extended Day (IMJB 11) *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 Ms.Wade. 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.

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**Introductory German 11 (BGE 11)**

***Prerequisite: None***

Introductory course in written and spoken German for students who have not studied the language at the Junior Secondary level. The basics of German 9 and 10 will be covered and students will be able to register for German 11 following this course. One year of study beyond BGE11 is required to meet the language study requirement at

most B.C. universities.

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**Marketing 12 (MK12) Applied Skills**

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. Study Starbucks' Global Marketing success, and the 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.

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**Metal Fabrication & Machining 11 (MFM11) Applied Skills**

Open to all grades 10 to 12.

An introductory course in metal work. Students will experience sheet metal, CNC plasma cutting, decorative metal work and welding. Heavy emphasis will be placed on safe work practices and use of tools in this introductory course. Students will work both individually and in teams through various workstations. Students will be introduced to the growing opportunities in employment in related fields.

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**P.E. Leadership 11 Extended Day (YHRA11B)**

**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 7:15-8:00am.

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**Peer Tutoring 11 (YIPS11B)**

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

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.

Students interested in Peer Tutoring must submit an application form which they may obtain from their counsellors, or download the "Peer Tutoring Application Form".

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**Photography 11 (YVPA 11A)**

Students must provide their own 35mm manual camera with built-in light meter. This is an introductory level photography course. Students will learn to use a 35mm camera, process black and white film, print enlargements, use an enlarger, tone and hand-tint photographs, safety procedures for mixing and using photographic chemicals, creative approaches to image making and pinhole photography. Time permitting,

students will explore Photoshop to enhance or alter images.

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### **Physical Education 11 (PE 11)**

#### ***Prerequisite: PE10***

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.

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### **Physical Education 11 - Extended Day (PE11)**

This course is available to all Mouat student athletes competing on teams offered at Mouat. In order to qualify for this course, students must fulfill 100 hours through the sport or sports that they compete in. Sports that would satisfy the requirement include Football, Volleyball, Wrestling, Basketball, Track and Field, Soccer and Rugby. Cross Country and Swimming would also satisfy the hours if combined with another W.J. Mouat sport. Marks would be based on participation and commitment to the team, demonstration of development of skills and fitness, and demonstration of good sportsmanship in keeping with our Mouat Athletics code of conduct. Students will also need to complete four projects around health and well being.

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### **Physics 11 (PH11)**

#### ***Minimum 67% in FMP 10 & SC 10.***

Students will be expected to be proficient in basic trigonometry and algebra. Scientific calculators are essential. Students should expect to solve a wide variety of problems using calculation and graphical means. Labs and projects support the theory discussed in class. The major topics include:

- a) Kinematics (motion)
  - b) Dynamics (forces)
  - c) Momentum
  - d) Energy
  - e) Waves
  - f) Optics
  - g) Special relativity
  - h) Introduction to vectors
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### **Pre-Calculus 11 (PREC11) (see flow chart at the end of document)**

#### ***Prerequisite: Foundations of Math and Pre-Calculus 10 with 67% minimum***

This pathway is designed to provide students with the mathematical understandings and critical-thinking skills identified for post-secondary studies that require the study

of theoretical calculus. Topics include Absolute value, Radical and Rational functions, Trigonometry, Quadratic Functions, Systems, Reciprocals, Sequences and Series. It is recommended that students purchase a graphing calculator. Graphing calculators will be provided to students but for in-class use only. It is each student's responsibility to investigate the requirements of any post-secondary program they may wish to pursue prior to selecting their pathway.

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**Pre-Calculus 11 Honours (PREC11)( see flow chart at the end of document)**

This is an enrichment program, not acceleration. While completing topics outside the normal curriculum, students will be required to maintain high grades as well as enroll in a national math contest.

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**Psychology 11 (YPSYC11A)**

Does listening to Mozart really make you smarter? What do dreams mean? What causes you to act the way you do? Can you improve your study skills by using psychology? Find the answers to these questions and more as you are introduced to the 'psychological' way of looking at life. Be prepared to read, discuss, and study psychological theory as it applies to personality, memory, learning and more. Applying the experimental method to Psychology and evaluating personality theories (including Freud's, among others), are a part of this course.

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**Sciences Humaines 11(SCH11)**

*Students will be required to write a provincial exam in January or June.*

SCH11 follows the same curriculum as the English track.

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**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.

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**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.

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**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.

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**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.

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**Social Justice 12 (SJ12)**

Social Justice is a course that aims to help students understand the causes of social injustice, to learn how to apply critical thinking skills to issues of fairness and equality, and 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, and moving towards a socially just world by taking ACTION. SJ12 aims to get students actively involved by teaching them how they can work towards change.

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

[http://www.bced.gov.bc.ca/irp/pdfs/social\\_studies/2008socialjustice12.pdf](http://www.bced.gov.bc.ca/irp/pdfs/social_studies/2008socialjustice12.pdf)

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### **Social Studies 11 (SS11)**

Course theme: **Canada and the World during the 20<sup>th</sup> Century**

Social Studies 11 consists of three parts: Canadian Government, History of Canada (post-1900), and Geography of World Problems - population and urbanization. Although much of the course is Canadian content/perspective, reference is made to other countries, mainly as a comparison, especially in the units on Population and Urbanization. The course will provide the students with a better understanding of: Canadian Government and how the different levels operate; the growth in Canadian autonomy, nationalism and regionalism. Some of the problems and solutions associated with urbanization and population growth will be discussed.

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### **Strength & Conditioning 11 (YHRA 11C)**

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.

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### **Strength & Conditioning 11 Female (YHRA 11C)**

See 'Strength & Conditioning 11' description.

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### **Student Leadership 11 (Government) Extended Day (YIPS 11A)**

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.

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### **Studio Arts 11: Ceramics & Sculpture (SACS11) *Fine Arts***

Work on more advanced projects using hand building and casting techniques. Projects will be assigned and used to encourage creative and original problem-solving. Students are expected to plan and design projects before creating and decorating them. Class discussion, participation and critiques of art are encouraged. Some discussion of historical and contemporary art will be included as well.

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### **Studio Arts 11: Drawing and Painting (SADP 11) *Fine Arts***

***Prerequisite: Art 9 or 10 with 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 judgments concerning art. Historical and contemporary aspects of drawing and painting will be considered and researched. Grade 11 students will be expected to show increased mastery in compositional and expressive skills in drawing and painting. Students will be required to supply their own pencil sets, acrylic flat paint brushes, prism color pencil crayons, white and kneaded erasers and 9"x12" sketch book (white paper).

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### **Superfit 11(YSPFT11)**

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.

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### **Textiles 11(TXT 11) *Applied Skills***

If you are just learning to sew or have completed Textiles 10, this is the course for you! Learn about design and how to make it work for you, then apply it as you create and sew your own design, using computer-aided drafting. You will also learn more advanced sewing techniques and use of commercial patterns, and study fibers and fabrics. Projects may include:

1. Pants or jeans (commercial pattern)
2. Quilted project
3. Skirt or pant of own design
4. Major project of own choice - use of difficult pattern or fabric.

Note: Basic patterns, fabric and notions will be supplied. Most students will want to personalize the course and should expect a cost of \$75-\$150.

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### **Theatre Performance: Acting 11 (TPA11) *Fine Arts***

Improvisation in a much more detailed way is examined. Character building, voice work, and script analysis are a major focus. Some written assignments are required. The final project is a professionally written scene in front of an audience. Be prepared to work hard, be reliable and take risks.

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### **Vinyl Graphics & Digital Imaging 11 (YCCT11B)**

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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### **Vinyl Graphics & Digital Imaging 11 Extended Day (YCCT11B)**

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 Arts***

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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### **Woodwork 11 (CJ11) (Woodwork) *Applied Skills***

This course is designed to meet the **beginning and advanced** woodworking student. This class will familiarize and/or upgrade the student with the correct use and safe operation of power equipment and hand tools. Emphasis is place on traditional cabinet/furniture making techniques augmented with current Computer Controlled Machine (CNC) technology 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

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### **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.**

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### **Work Experience 12A (WEX12A)**

This course gives students an opportunity to participate in 100 hours of volunteer experience **without missing time from other courses**. Develop basic employability skills, meet people who work in the field you're interested in, and obtain advanced standing or entry requirements for some post-secondary programs. Whether you've identified your career interests or you're still wondering which career path to pursue, this course will help you make informed choices about your future. **Note: Successful completion of WEX12A satisfies Graduation Transitions - Unit 2: Community Connections.**

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### **Work Experience Preparation 12 (IDS12A)**

This course prepares students for work placement in the community and allows you to

reflect on your work experience/s. Find out which career options fit your personality type, learn useful job search skills, get information about post-secondary education and/or training needed for your career choice. Develop a realistic plan for achieving your education and career goals. **Note: Successful completion of WEX Prep12 satisfies Graduation Transitions - Unit 3: Transition Planning.**

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### **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.

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### **Yearbook 11 Extended Day (YCCT 11A)**

**Extended day class.** 2 days per week for a minimum of 4 hours per week. Meeting times will be determined in September. **Prerequisite: C+ average and Grade 11 or 12 standing and instructor's permission**

Previous experience in yearbook photography or computer studies will be important assets for anyone considering this course. Must own a good camera, digital camera preferred (3.1 Mega pixels or better). Provides practical experience for the beginning journalism student by introducing them to all phases of yearbook production.

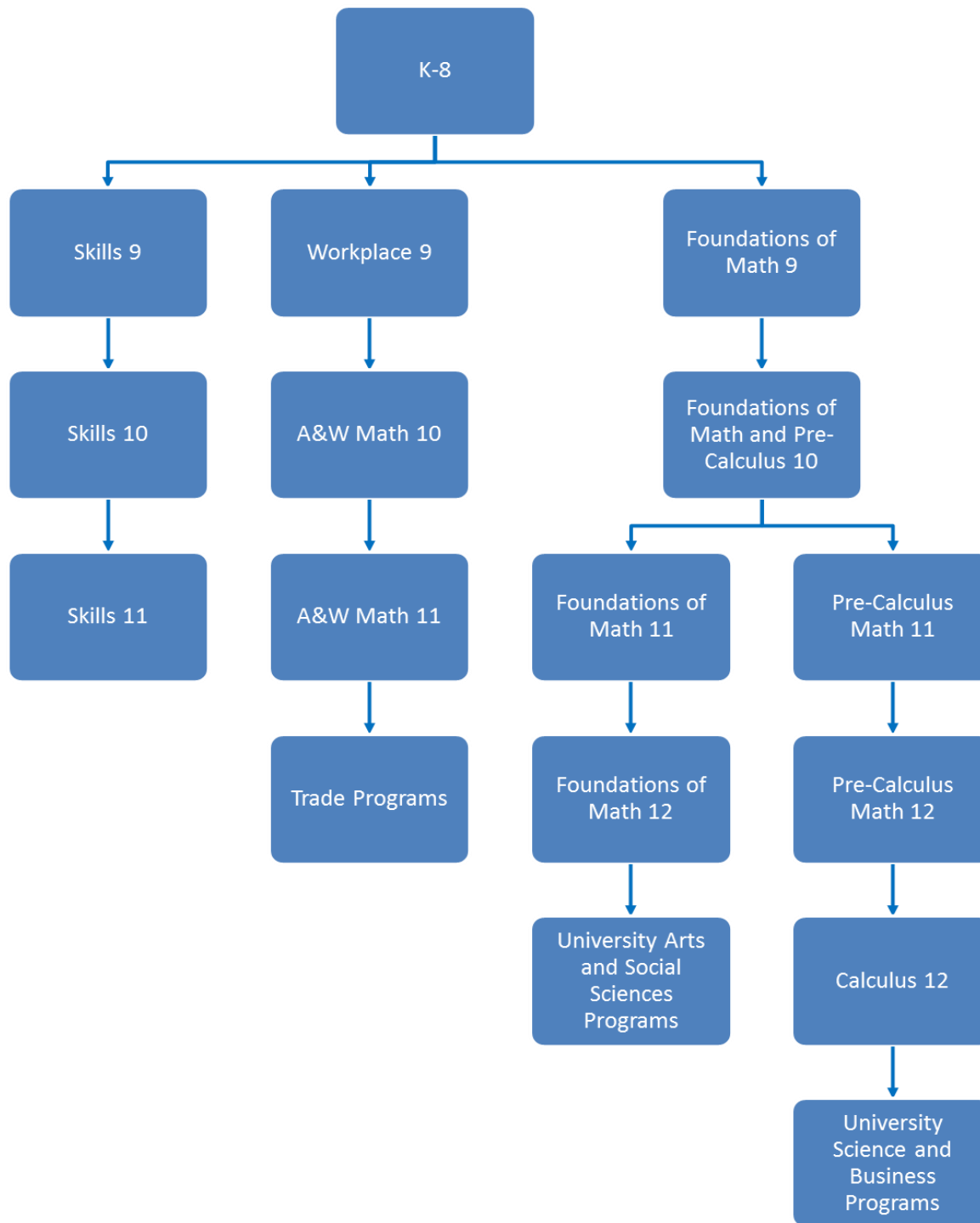
Throughout the year, students will be expected to master fundamentals of layout and design techniques of magazine format and then apply these skills to actual yearbook production. Students will use both Adobe Pagemaker and Adobe Photoshop programs. The class will be responsible for producing the school's yearbook and every member of the class will be required to become familiar with all aspects of this project including digital photography, desktop publishing layout, writing, advertising and book sales and promotion. Students with credit for Yearbook 10 or previous yearbook experience will be required to mentor first year students, advance all skills acquired in Yearbook 10 and assume specific leadership roles in the class (e.g. template designers, photo editors, copy editors, technology support, etc.)

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
- ability to fulfill basic editorial duties (for students with Yearbook 10)

**Math Department Flow Chart (on next page)**





Updated: January, 2017