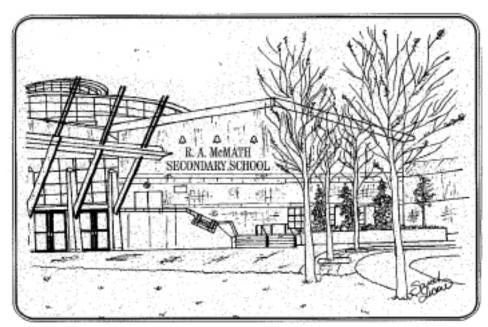
École secondaire Robert A. McMath

Secondary School

"Home of the Wildcats"

4251 Garry Street, Richmond, B.C. V7E 2T9 Phone 604-718-4050 Fax 604-718-4051 e-mail: mcmath@sd38.bc.ca web: http://mcmath.sd38.bc.ca



"Together We Learn"

Course Planning Guide 2017-18

RICHMOND SCHOOL DISTRICT NO. 38

"Our Focus is on the Learner"



École secondaire Robert A. McMath Secondary School

4251 Garry Street, Richmond, B.C. V7E 2T9 Phone 604-718-4050 Fax 604-718-4051 e-mail: mcmath@sd38.bc.ca

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PURPOSE OF THE PLANNER

his planner is intended to support students and their parents/guardians in choosing the most appropriate courses for the 2017-2018 school year. Some courses must be taken to meet the graduation requirements of the Ministry of Education, while others can be chosen to meet individual interests and goals. This planner describes the broad requirements of each grade, the content of individual courses, and the various programs and services at McMath Secondary.

Timetabling (the number of sections of each course) is based on the course requests made by students in February and March. The following steps are used to build McMath School's master timetable:

- a. Students determine their compulsory courses and choose their elective courses using this Course Planning guide to assist them. Students submit their course requests to their counsellor and enter their requests on-line.
- b. The requests for each course are tallied and that information is used to determine how many blocks to build for each course. Courses with too few student requests will be cancelled. Students who have requested a course that gets cancelled will then be programmed into their alternate elective choice.
- c. The master timetable is built using the numbers of blocks for each course as determined by student requests.

It is essential that students consider the task of choosing courses as a major responsibility because the choices that they make determine the master timetable. *Once the master timetable is built, course changes become much more difficult; thus, it is very important that the selection of courses be done carefully.* Please choose courses and alternatives carefully, keeping in mind the following factors:

- Elective courses will be offered only if there is sufficient enrolment to justify a class. The possibility arises that a student may select a course that cannot be scheduled. In this case, the student will be offered an alternative elective, suitable for his/her timetable. *Make sure to provide thoughtful alternate selections when you are course planning.*
- Students may select courses based on their interests and plans. Students are not allowed to select courses based on individual teacher requests.
- Students and parents/guardians should examine the book thoroughly (available on school's website), then discuss the choice of courses together, and consult teachers or counsellors if necessary.
- Students in the Graduation Program (Gr. 10-12) need to plan their courses with career and/or post-secondary programs in mind. If students are in doubt about future academic or career directions, they should choose courses that allow them as many options as possible.
- Counsellors and the departments involved will review requests for the English as Language Learner Classes.
- Many B.C. Universities require students to complete a Modern Language to the grade 11 level for admission.
- All students in grades 8 11 are expected to take eight courses. Students in grade 12 may choose a study block. Any exceptions to these guidelines must be approved by school administration.

IMPORTANT DATES

Jan 30-Feb 6	Counsellors make initial visits to Grade 7 Feeder schools.
Feb 2 (6:30 pm)	Course Planning Information Session for parents of students in grades 7 to 11 presented during Open House/Fine Arts Night.
Feb 6-23	Course Planning Sessions with all students in grades 8 to 11 (during classes).
Feb 16	Grade 8 "Program Planning" sheets due.
Feb 23	Grade 9-12 Program Planning sheets due.
Mar 9	"Course Request Verification" forms sent home with report cards.
Iviai 9	Note : Waitlists are created after Spring Break to facilitate request changes.
April 12	Deadline for Course Request Changes.
April 13	Note : Changes made after April 17 will be given low priority in August/September.
May - TBA	Grade 7 Orientation
Late August	Student timetables sent home
	Course changes for:
Aug 20 Cam 1	Incomplete timetables
Aug 28- Sep 1	Errors in "required" courses (e.g. wrong grade level).
	Please email counsellor or make appointment with office
	Deadline for Course changes
September 8	• Electives
	Other reasons
	Requests for change must be made by letter from parent/guardian

Students living in the catchment area but <u>not</u> attending one of **McMath's seven Feeder Schools** will attend a program planning session on **Wednesday**, **April 5**, **2017 anytime between 3:15 PM – 4:00 PM**, in the Office Conference Room.

If you live **outside the McMath catchment**, you are still welcome to apply to our school as a "Transfer Student". Please do so using the appropriate forms available from all schools. **The application deadline is February 10, 2017. Decisions** (**"Yes" or "No"**) will be made by **February 28, 2017**. <u>Successful applicants</u> will be called by a McMath counsellor to complete program planning documents and discuss other transition details.

SCHOOL INFORMATION

Vision Statement

McMath Secondary School is distinguished for its strong, positive, interpersonal relationships. These relationships, which are the foundation for learning and personal growth, exist in the school to enable and include all learners. The McMath community honours the primacy of teaching and learning within an atmosphere of acceptance, belonging, and mutual respect. Members of the school community are encouraged to strive for their personal best as citizens, leaders, and life-long learners.

Profile

McMath is a comprehensive dual track French Immersion/English Grades 8-12 secondary school that operates on a linear timetable. The school will have an enrolment of about 1300 students in the 2017/18 school year and like the city of Richmond we are a multicultural community. Along with the core of basic academic courses students are able to choose from a wide variety of interesting electives, many honours and Advanced Placement Courses, an enriched program of studies in grade 8-10 called Explorations, Career Preparation Programs and Apprenticeship Programs. The Learning Services program supports our students with learning needs. The school has a rich tradition of outstanding academic success and a majority of students proceeding to post-secondary education. At McMath students are expected to work hard and be successful in the classroom and we encourage students to be engaged and involved in the vast extra-curricular life at our school.

McMATH WILDCAT P.R.I.D.E.

Students and staff are to exhibit the following core values of our school at all times, whether within the school and its facilities, or acting as ambassadors while out in the surrounding community, or on field trips representing our school. At McMath we believe that students and staff shall demonstrate a:

Positive Attitude: to recognize and develop opportunities to create positive environments for self and others.

Respect: To value self, others and the environment.

Integrity: To be honest, trustworthy and moral.

Diversity: To accept and welcome all individuals – to appreciate the ideas and experiences of those different from themselves.

Effort: To establish goals and expectations, acknowledging when situations are difficult, and choosing to persevere.

These principles (developed by students, staff & parents), will serve as the foundation for school conduct for all members of our school community. The complete PRIDE rubric, which outlines our school's expectations in the classroom, in common areas of the school, and on-line, is displayed inside the student agenda.

STUDENT ACTIVITIES

At McMath, students have a wide variety of extra-curricular clubs, athletic teams, hobby groups, leadership committees and opportunities to join and enrich their overall educational experience. There is a strong focus on local and international humanitarian work and on environmental stewardship. All students are encouraged to pursue their interests and passions and join a club, team, or group outside of their regular academic classes to round out their school life at McMath.

Athletics

The school competes, with great success, in the RSSAA leagues and usually enters teams in all of the traditional fall, winter and spring sport seasons. Students are expected to exhibit a strong commitment to their teams, a high standard of sportsmanship as a representative of McMath School and must be working to their full potential in the classroom to remain eligible to participate on a school team. Sports offered may change according to student and staff interest. Travel and tournament opportunities are available.

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Cross Country – Boys and Girls
Field Hockey – Girls
Rugby - Bantam & Juvenile Boys
Swim Team - Boys and Girls
Soccer – Sr. Boys
Volleyball –Jr. & Sr. Boys and All Girls

Winter

Basketball – Boys and Girls Curling – Boys and Girls Table Tennis – Boys and Girls

Spring

Badminton – Co-ed
Track and Field – Boys & Girls
Golf – Girls and Boys
Rugby – Jr. &Sr. Boys and Girls
Soccer – Sr. Girls
Tennis – Co-ed
Ultimate – Co-ed
Volleyball – Bantam & Juv. Boys

Clubs & Activities

A wide range of activities and clubs are available to all students. At McMath we believe that extracurricular clubs and activities are valuable for the development of the whole student, and an opportunity for students and McMath staff members to meet and share common interests in specific areas. Examples of clubs that may run are:

After School Tutors	Debate Club	Japanese Cultural Club	School Reach
Anime Club	Drum Line	Kindle Club	Science Challenge
Art/Pottery Club	Duke of Edinburgh	Leadership	Scorekeepers/Referees
AV Club	First Responders	Library Monitors	Ski/Snowboard Club
Bazinga	Fruit-Veggie Club	Lighthouse	Smash Club
Blog Team	Fuss Ball Club	Link Crew	Spirit Committee
Board Game Club	Games Club	Math Club	Steam Punk Society
Boys Group	Girls Group	Model UN Club	Student Council
Business Club	Glee Club	Multicultural Club	Tennis Club
Cats Give Back	Grad Committee	Music Ensembles	30 Hr Famine Club
Chess Club	Hip Hop Dance Team	Natural Club	United Nations
Code Club	Improv Club	PRIDE Club	War Child
Dance/Hip Hop	Interact Club	Robotics Club	

Performing Arts (Music & Drama)

McMath has had jazz, choral, stage and concert band groups for many years. Students normally enroll in a credit course in music and are expected to commit themselves to regular practice sessions as well as special performances and one major trip each year. Extracurricular music opportunities are also available. Similarly, the drama courses and drama club offer opportunities for both young actors and behind the scenes support people in the theatre to get involved in major school productions and an "improv" competition troupe.

Travel

Each year a group of interested students travel to, or host students from our long time foreign partners in Japan, where we have a sister school. The school also participates in humanitarian projects in Costa Rica. Students may also have the opportunity to travel to destinations (with a language focus) with our French Immersion or Spanish Programs to places such as France, Italy, Mexico, Spain or Peru, or (with an Arts focus) to Europe or New York. These outstanding cultural and travel experiences are available to all students and can be the beginning of lifelong friendships, as well as stimulate a passion for travel. Similarly, McMath students may travel with groups like athletic teams or the Explorations Program to exciting destinations such as California or Florida and various sites in B.C.

Food Services

There are vending machines and a lunchroom service available to students. The lunchroom service is available before school, during recess break and at lunchtime.

Student Pictures and Bus Passes (GO Cards)

Photographs for these items are taken in September. Picture packages can be ordered at this time. Graduation portrait information will be distributed by the graduation committee early in the school year.

Agenda Books

In September, every student will receive a McMath agenda book. We encourage all students to use their agenda daily as a personal organizer and to record homework, assignments and achievements.

McMath Clothing

Crested sweatshirts, T-shirts, shorts and sweat pants are available during the year. Students are encouraged to display their school pride at games, events, and spirit weeks.

Parent/Guardian Involvement

In addition to encouraging students to participate in extra-curricular activities in the school, we need parents/guardians to become involved as well. Some ways to support the school might be: participating in groups like the Dry–Grad Committee, the Parent Advisory Council, the School Planning Council, coaching or sponsoring teams/clubs, helping with field trips, attending parent evenings, supporting school goals at home and organizing/helping with special events. For more information contact an administrator at the school.

Costs Associated with Courses

Basic supplies required to fulfill learning outcomes in all courses will be provided to students free of charge. Should students wish to use other or additional supplies, these may be purchased directly or through the school on a cost-recovery basis. Students wishing to take home or consume completed project work may do so on a cost-recovery basis. Students will be asked to pay costs in connection with optional field trips.

Textbooks

Subject teachers issue textbooks. There is a charge for school texts if they are returned with more than normal wear. Students will be billed for their repair or replacement. There is also a charge for lost textbooks.

Attendance

There is a school expectation that students attend and are on time for all classes in which they are registered. Beyond this expectation, however, it is well established that poor or inconsistent attendance is directly related to a lower degree of academic success. Parents need to phone in to notify the school of any absence, as there is an early-warning phone system to notify parents/guardians of unexplained absences in the morning. Students, upon return to school, should bring a note to show to teachers. Any student arriving late to school must sign in at the office and any student leaving school early must sign out at the office.

Course Load

All students must carry a full schedule of classes – 8 classes per year. Grade 12 students may have 1 study block for the year. Any exceptions to these requirements must be approved by the school administration.

Timetable

The McMath school year is linear which means that students attend the same classes every other day for the entire year. The daily timetable is organized in a rotating Day 1 and Day 2 structure. The order of the courses on each day changes each quarter. Each class is 78 minutes in length. At the end of June there is a formal schedule which includes subject exams, study and "I" removal sessions as well as provincial exams for those enrolled in certain grade 10, 11 and 12 academic subjects.

September to Mid-November

	Day 1	Day 2	Day 1	Day 2	Day 1
8:20 - 9:40	1-1	2-1	1-1	2-1	1-1
		5 min. br	eak		
9:45 - 11:05	1-2	2-2	1-2	2-2	1-2
	15 min. break				
11:20 - 12:40	1-3	2-3	1-3	2-3	1-3
Lunch Break					
1:30 - 2:48	1-4	2-4	1-4	2-4	1-4

Mid-November to January

	Day 1	Day 2	Day 1	Day 2	Day 1
8:20 - 9:40	1-4	2-4	1-4	2-4	1-4
		5 min. bi	eak		
9:45 – 11:05	1-1	2-1	1-1	2-1	1-1
15 min. break					
11:20 - 12:40	1-2	2-2	1-2	2-2	1-2
Lunch Break					
1:30 - 2:48	1-3	2-3	1-3	2-3	1-3

3RD QUARTER - FEBRUARY - APRIL

DAY 1 – 1-3, 1-4, 1-1, 1-2 DAY 2 – 2-3, 2-4, 2-1, 2-2 <u>4TH QUARTER</u> – APRIL - JUNE DAY 1 – 1-2, 1-3, 1-4, 1-1

DAY 2 – 2-2, 2-3, 2-4, 2-1

Reporting and Evaluation

Teachers use a variety of evaluation procedures, which are related to the nature and content of each course. In Grade 12 courses where the Ministry of Education has established a final examination, the school mark forms 60 percent of the final grade and the Provincial exam is worth 40 percent. Students must write the Français Langue 12 or Language Arts 12 exam. In Grade 10 and 11 courses where there is a Provincial exam the school mark is 80% of the final grade and the Provincial exam is 20% of the final grade. Students should always know where they stand in all subjects. To help in this process, students are issued agenda books in September so that they can keep a record of achievement and homework in each class. Report cards are issued in December, March and June. The teacher will initiate interim reports at any time during the school year. Student grades will be reported as letter grades only in grade 8 and 9 and in letter grades and percentages for grades 10 to 12. The breakdown of letter grades used by teachers is listed below: During the course of a term, "T" grades will be clarified and after a defined period of time, converted into either a passing grade or an "F".

A 86–100% **B** 73–85% **C**+ 67–72% **C** 60–66% **C**- 50–59% **F** 0-49% Fail **I** Incomplete

Awards

Student excellence in academics, athletics, fine and performing arts and social responsibility activities is recognized through a formal awards program. The awards ceremony is held in May or June of each year.

STUDENT SUPPORT SERVICES

t McMath Secondary School, the major goal of Student Support Services is to support the intellectual, social, human, and vocational development of students. In particular, Student Support Services at McMath want to assist students to be successful in all aspects of their schooling. As a result of successful and meaningful experiences in school, it is our belief that students will be better prepared to continue learning and meeting challenges after leaving the high school environment.

COUNSELLING

Students are assigned to a counsellor alphabetically, by last name. However, students may see any counsellor they choose to discuss personal problems. Students can drop into the counselling centre at any time. Counsellors support students with educational planning, career planning and personal issues.

Educational

- Course planning leading to graduation, post-secondary education and employment.
- Arranging for support for students experiencing academic difficulties.
- Academic 'action plan' development for students with academic problems.
- Providing scholarship and post-secondary application information.
- Facilitating the transfer of students' academic information to the Ministry of Education and also to postsecondary institutions.
- Providing reference letters upon request.

Career

- Assisting students in goal setting for careers.
- Advising of career inventory services.

Personal

- Crisis counselling involving home, personal or school related problems.
- Consultation with and referral to outside agencies.
- Discussing personal development issues.
- Personal goal setting strategies.

LEARNING SERVICES.

The McMath Learning Services department offers 3 tiers of academic support to students:

1. The Learning Centre

The Learning Centre offers academic support on a drop-in basis to students, particularly in the junior grades. Students, with their classroom teacher's permission, are welcome to come to the Learning Centre during their classes for support with their assignments, and may also access academic support in a quiet and encouraging environment after school school every day until 4pm. The Learning Centre is staffed with a team of learning resource teachers and peer tutors and is open to all students on a regular or occasional basis.

2. The Learning Strategies Program

Students who require on-going academic support in order to successfully meet the learning outcomes of their courses, or students who are working on an IEP, may be enrolled in a Learning Strategies class. The Learning Strategies class, generally taken in place of French 8, offers students direct support in academics, organization and study skills. Students are typically referred to the Learning Strategies program by their elementary school, although referrals can be made by teachers, parents or students themselves throughout their years at McMath. Placement in an LS block is determined by the School Based Team in consultation with parents; unless referred by their elementary schools, students are generally encouraged to utilize the support of the Learning Centre before considering enrolment in an LS block. Learning Strategies classes are taught by learning resource teachers and assisted by peer tutors. Course accommodations are implemented for students by their LS teachers in collaboration with classroom teachers.

3. The Evergreen Program

The Evergreen Program is offered to students who require personalized learning to meet their academic and personal goals. Students supported in the Evergreen Program will receive modifications to the provincial curriculum, and may be enrolled in both grade level classes and smaller, more individualized classes with specific instruction in functional academics, life skills and work experience. Personalized programs are developed by the learning resource teacher in collaboration with parents, and may vary depending on the needs and goals of each student and his/her family. Students in the Evergreen Program work with teachers, educational assistants and peer tutors, and the focus is on developing a rich, dynamic community of learners who are fully engaged in the life of the school community; each student is encouraged to enjoy school, while working towards their individual goals and personal aspirations.

CAREER CENTRE SERVICES

The Career Advisor is available to assist students with Post Secondary, Career and Scholarship plans. The Career Centre is located in the Counselling Department. Services that are provided to students include:

- Access to the Career Centre Website: http//public.sd38.bc.ca/ ~ccnews. The website is applicable to Grade 10–12 students and provides up-to-date information on career, scholarship and post secondary options.
- Students may schedule an appointment with Ms. Bernard, Career Information Advisor, to review Career Cruising.
 This program encourages students to explore occupations and post-secondary institutions across Canada and the U.S.
- Calendars, admission guides, websites and pamphlets from post secondary institutions in B.C. and other Canadian provinces.
- Post secondary application for admission and scholarship information/applications
- Applying for a job (resume/cover letter information/ interview skills)
- Post-Secondary financial aid.

LIBRARY SERVICES

The main goals of the McMath library are to develop resource-based learning and independent thinking and support students' reading and research skills. The McMath library offers curriculum and recreational oriented materials in many formats: books, pamphlet files, audio-visual materials, newspapers and magazines, and CD-ROM. The collection is designed to meet the needs of students and teachers doing research projects, independent study, and/or recreational reading. Assignments that stress information skills have been planned in consultation with classroom teachers, and assistance is always available to students as they complete their research projects and essays.

ENGLISH LANGUAGE LEARNERS (E.L.L.)

This is a program that offers special assistance to students whose first language is not English. Initial placements in the program are carried out by District E.L.L. staff. Following district assessment, students are assigned an E.L.L. level. Beginner levels are 1 and 2 while intermediate levels are 3 and 4. In general, the number of E.L.L. support blocks assigned to students is as follows:

Level 1: 3 blocks ELL SC, SS, EN Level 3: 2 blocks ELL EN, SS Level 2: 3 blocks ELL SC, SS, EN Level 4: 1 block ELL EN

Students who have been promoted to level 5 will not attend any E.L.L. support block, but receive support in their E.L.L. consultation block as well as from other teachers in the context of non-E.L.L. classes. Students in E.L.L. levels 1 to 4 will complete their timetable with non-E.L.L. blocks once the number of their E.L.L. blocks has been established. The support students receive in E.L.L. at all levels benefits students by helping them to cultivate the English Language skills necessary for success in other classes. Students are eligible to receive graduation credits of Board Approved courses as follows:

Completion of Level 1: YELL 10 4 credits Completion of Level 2: YELL 11 4 credits Completion of Level 3: YELL 12 4 credits

ENGLISH TRACK GRADE 8 - 9 REQUIREMENTS

In grades 8 and 9, promotion is by subject.

Grade 8 Grade 9 Humanities 8 (2 blocks) English 9 Mathematics 8 or Mathematics 8/9 Social Studies 9 Science 8 Mathematics 9 or Mathematics 10 Physical Education/Health & Career Education 8 Science 9 French 8 Physical Education/Health & Career Education 9 Applied Skills 8 (rotation of HE, TE, BE) Elective Elective in Fine Arts (1) Elective -Art 8 or Elective -Drama 8 or -Band 8 or -Choral Music 8

HEALTH & CAREER EDUCATION 8 and 9

he Health and Career Education 8 and 9 programs are mandatory for students. Their aim is to provide students with the knowledge, skills and attitudes that will assist them in making informed decisions related to their health, education and future careers. Topics covered will include exploration of career options and sources of support, healthy living and healthy relationships, safety and injury prevention and substance misuse prevention.

FRENCH IMMERSION PROGRAM

The program offered is an extension of the elementary program which began in Kindergarten or Grade 1 for Early Immersion or Grade 6 for Late Immersion. These two streams are integrated at the high school level.

Starting September 2017, Grade 8 students enrolled in French Immersion take 4 of their courses in French each year. Grades 9 & 10 will take 3 of their courses in French. Français langue, Sciences humaines, and Science naturelles all have French as the language of instruction.

French Immersion Course Requirements (Course in Bold – Taught in French)			
Grade 8Grade 9Grade 10Humanités 8Français langue 9Français langue 10Français langue 8Sciences humaines 9Sciences humaines			
Français langue 8 Sciences humaines 8	Sciences naturelles 9	Sciences naturelles 10	
Sciences naturelles 8	Math 9 or Math 10	Math 10 or Math 11	
Math 8 or Math 8/9	English 9	English 10	
English 8	Physical Education 9	Physical Education 10	
Éducation physique 8	Health & Career Planning 9	Elective	
Health & Career Planning 8	Elective	Elective	
ASK 8	Elective		
Fine Art Elective			
<u>Grade 11</u>	Grade 12		
Français langue 11	Français langue 12		
Sciences humaines 11	English 12		
English 11	Elective 12		
A Science 11	Elective 12		
Math 11 or 12	Math 11 or 12 Elective		
Senior Planning	Elective		
Elective	Elective		
Elective	Elective		

SENIOR PLANNING COURSE AND THE GRADUATION TRANSITIONS (GT) PROGRAM

hese are two four-credit courses, each of which is required for graduation. Students will be introduced to the Senior Planning course in Grade 11 and the Graduation Transitions Program in grade 10. In Senior Planning, students will explore Focus Areas as well as learn about topics in the areas of Education and Careers, Health and Finances.

The main focus in Grade 10 will be to introduce the Graduation Transitions Program requirements to students via their PE 10 course. Support for this program will continue in Grade 11 with their Senior Planning teacher. Throughout grades 10-12, students will be expected to collect evidence that supports their plans for transitioning from secondary school. This is completed in the spring of Grade 12 when students participate in a presentation/exit interview.

Additional detail about each of these programs is outlined in the course descriptions index.

GRADUATION REQUIREMENTS: GRADES 10 - 12

Eighty (80) credits in Grades 10 - 12 (equivalent to 20 four-credit courses) are required for graduation.

Required courses ((Total of 48 credits)):

Required courses (Total of 46 electis).	
Language Arts 10 (English 10)*	4 credits
Language Arts 11 (English 11 or Communications 11)	4 credits
Language Arts 12* (English 12 or Communications 12)	4 credits
Social Studies 10	4 credits
Social Studies 11*, Canadian Civics 11	4 credits
Science 10*	4 credits
Science 11 or 12	4 credits
Mathematics 10*	4 credits
Mathematics 11 or 12	4 credits
Physical Education 10	4 credits
Fine Arts or Applied Skills 10, 11 or 12	4 credits
Senior Planning (Planning 10)	4 credits
Elective Courses (additional Grade 10, 11 12 courses)	28 credits
Graduation Transitions	4 credits
Total Credits Required for Graduation	80 credits

Note: Students must take a minimum of 16 credits at the grade 12 level including language Arts 12. All ministry-authorized and Board/Authority-Approved courses count.

To graduate, you need at least 48 credits from Required Courses - subjects such as Language Arts, Social Studies and Science. All courses are worth 4 credits.

As well, you need 28 credits from Elective Courses, a four-credit Graduation Transitions Assessment and five Graduation Program exams*.

Be careful when you drop a course late in the school year - it could be the one you need to graduate.

Don't forget that post-secondary institutions often require you to complete specific courses to get into certain programs. Careful planning in Grades 10, 11 and 12 will ensure you have all the courses and credits you need.

COURSE PLANNING

Course Planning Overview –	English Track	
Grade 10	Grade 11	Grade 12
English 10	English 11/Communications 11	English 12/Communications 12
Social Studies 10	Social Studies 11	Elective 12
☐ A Math 10 or 11	A Math 11 or 12	Elective 12
A Science 10	A Science 11	Elective 12
PE/Planning 10	Senior Planning	Elective
Elective	Elective	L Elective
Grade 10 English 10 Social Studies 10 A Math 10 or 11 A Science 10 PE/Planning 10 Elective Elective Elective 8 in Total	Elective	☐ Elective
Elective	Elective	Elective
8 in Total	8 in Total	8 in Total
Course Planning Overview –	French Immersion Track	
Grade 10	Grade 11	Grade 12
Français langue 10	Français langue 11	Français langue 12
Sciences humaines 10	Sciences humaines 11	English 12/Communications 12
English 10	English 11/Communications 11	Elective 12
☐A Math 10 or 11	A Math 11 or 12	Elective 12
Sciences naturelles 10	A Science 11	Elective
PE/Planning 10	Senior Planning	Elective
Elective	Elective	La Elective
Elective	Elective	☐ Elective
9 in Total	9 in Total	9 in Total

"We all should know that diversity makes for a rich tapestry, and we must understand that all the threads of the tapestry are equal in value no matter what their colour." - Maya Angelo

GRADE 12 STUDY BLOCK

In the interests of maintaining a positive school tone for staff and students to work during instructional hours, the notion of "study blocks" are restricted to one per grade 12 student who meets the school's criteria.

Only students who are successfully meeting all their graduation requirements will be considered.

This is <u>non-credit</u>, <u>unsupervised time within the school day</u>. While in the school, students will be expected to be independently studying or working on projects/assignments in designated areas in the school. A study block is neither intended nor designed to be a "free block." The study block is intended to provide an opportunity for responsible grade 12 students to assume responsibility for the use of unstructured learning time.

Grade 12s who wish to apply for a second study block may do so by completing the Second Study Block Application form, which must be signed by a parent.



POST-SECONDARY

Scholarships

Several categories of scholarships exist: Provincial, District, McMath, and external.

BC Excellence & BC Achievement Scholarships

McMath will have one nominee for the BC Excellence Scholarship (\$5000) value. Interested students can apply to be nominated through the school scholarship committee. The BC Achievement Scholarship is a \$1250 scholarship that recognizes broad achievement in courses meeting graduation program requirements. At the end of October, the Ministry will determine the recipients based on students' achievement in Grades 10, 11, and 12 courses that satisfy graduation program requirements. Recipients must meet basic eligibility requirements in addition to attaining a "B" or better average in their Language Arts 12 course. A cumulative average percentage will be calculated and form the basis for awarding the BC Achievement Scholarship. For the 2017/2018 school year, these will be given to the top 8000 students in the province. Winners will be sent the scholarships in November.

District/Authority Awards

The Ministry of Education provides approximately 20 - \$1250 Scholarships to McMath students who show outstanding achievement in Fine Arts, Applied Skills, Physical Activity, Second Languages Community Service and Technical and Trades Training. To qualify for these scholarships, students must pass the Provincial English 12 examination, maintain a C average in their grade 12 year, be taking a minimum of two senior level subjects, at least one at the grade 12 level in their chosen area and select one of the 12 level courses in which to be formally assessed. Please note that any instance of Academic Misconduct by a student disqualifies them from earning any scholarship or bursary.

Form more details and selection criteria information view: www.bced/gov.bc.ca/exams/handbook/handbook_of_procedures.pdf

McMath Scholarships and Bursaries

Applications must be made to the McMath Scholarship Committee in April/May of a student's Grade 12 year. The school, businesses, organizations, and individuals in the community donate these scholarships to be presented to McMath graduates. Recipients are decided on the basis of specific criteria unique to each award.

Other Scholarships

There are many scholarships offered by institutions, industries, unions, businesses and individuals that are available to students. The individual must submit an application. Check the following site for details http://sd38careercentre.weebly.com/ click "Scholarships". Information regarding these scholarships can be obtained through the Career Centre.

Post Secondary

The Counselling and Career Centre maintains an extensive library of post secondary viewbooks, as well as up-to-date computer information on Canadian post secondary institutions. Post-Secondary institutions in B.C. include the following: technical/trade schools, colleges and universities.

Technical/Trade Programs

VCC, BCIT, Vancouver Island U., Thompson Rivers U., Kwantlen and U. of Fraser Valley are some institutes that offer career, trade and technical specialties. The programs cover a variety of occupations and offer credentials from certificates to degrees. Entrance requirements vary. Detailed information is available in the counselling area.

Colleges

Colleges within Metro Vancouver include Langara and Douglas. These institutions offer certificates, diplomas, and associate degrees in career, technology, as well as one and two year academic transfer courses to university and (limited) undergraduate degrees.

POST-SECONDARY

Universities

B.C. universities include UBC, SFU, UVic, Kwantlen, UNBC, Capilano, Trinity Western, Thompson Rivers, Emily Carr (Fine Arts), Fraser Valley and Vancouver Island. Universities provide undergraduate and graduate degree programs in a variety of disciplines. Specific faculty entrance requirements vary, but all programs require English 12 and Provincial academic courses.

Other Post-Secondary Institutions

Distance and Open Learning education offer a unique learning experience through print, web-based and on-line delivery of materials in a wide range of programs and individual courses so students may pursue career, college and university studies. Registration and scheduling flexibility allows students to make educational choices that suit their needs.

Important sources for post-secondary research are:

www.educationplanner.ca www.bctransferguide.ca www.workbc.ca www.careercruising.com



Image from one of our two post-secondary institution visits. The Canadian Universities Event takes place in the early fall and Post-Secondary Day take place late fall each year.

SPECIAL PROGRAMS

ENRICHMENT OPPORTUNITIES

Enrichment curriculum can be offered in a variety of effective ways, dependent upon the subject area, the nature of the curriculum, teaching philosophy, and the particular learning style of the student. At McMath we recognize that students learn in a variety of ways and at different rates; therefore, we offer enrichment opportunities for highly motivated, gifted as well as underachieving, but highly able students in several different models:

Great diversity in Selected Study courses
Subject-integrated enrichment
Advanced Placement courses
Resource Based support
Independent Directed Studies
Explorations Program
Career Preparation Programs

In a number of cases, noticeably Selected Studies areas such as Fine Arts, Applied Skills, Modern Languages, and Physical Education, there are many opportunities for student enrichment via a broad base of curricular and extracurricular experiences. In other instances, enrichment can take the form of greater depth and/or breadth within the subject area focusing on enhancing students' creative and critical thinking skills. This kind of enrichment can take place in a mixed ability setting or separate class setting. At McMath we offer opportunity for students to explore enrichment by all of the methods described above. Students who want to complement their academic program with more in depth study in various courses should carefully consider these enrichment opportunities. Should you require further information regarding these descriptions please contact the subject facilitator, counselor, or administrator.

Enriched Courses

Math, Science, English, Social Studies, Independent Studies

Enriched Programs

Explorations, Advanced Placement, Career Preparation

EXPLORATIONS PROGRAM

The McMath Explorations Program is designed to meet the needs of high ability, self-motivated students with potential leadership qualities. The program spans three years starting in grade 8. Students in each grade will study three of the four core courses (Science, English, and Social Studies) in an environment designed to challenge them. There will be opportunities for cooperative learning situations, independent study, and out of school field experiences. Students must be independent thinkers and risk-takers in their approach to learning and possess critical thinking and creative problem solving skills. It should be noted that a strong work ethic and positive attitude towards schooling are actually more important as selection criteria than is raw intelligence. In addition to its academic goals, students in the McMath Explorations program will be involved in local community service opportunities. An emphasis will be placed on promoting leadership and fostering community within and outside of the program.

Admittance to the program will be through an application and interview process. Application packages will be available following visits to feeder schools.

ADVANCED PLACEMENT COURSES

he A.P. program at McMath Secondary School involves acceleration and enrichment for motivated and hard-working students looking for a challenge at the grade 12 level. Successful completion of an A.P. course will result in additional credits (vary depending on the course) towards the student's graduation requirements. In addition, most North American (and many other) universities and colleges will award advanced placement and/or credit to students with high standing in A.P. courses (however, this should not be the main reason for enrolling in an A.P. course). The A.P. program helps students pursue intellectual activities of a challenging nature and develop higher level thinking skills, such as independent study and research, analysis of knowledge, subject enrichment and sociological implications of the various areas of study. Advanced Placement exams are written in May each year (there is a fee per exam) and the results are sent to each student by the College Board in July. All exams contain both multiple-choice items and free response items that require essay writing, problem solving and other skills. McMath will offer Advanced Placement courses or a blended Ministry course with A.P. Course Enrichment in the following subjects where there is sufficient enrollment: Studio Art 2-D, Biology 12, Calculus 12 AB, Chemistry 12, Chinese Language and Culture 12, English Literature & Composition 12, French Language 12, and Physics 11 & 12.

CAREER PREPARATION PROGRAMS

areer Preparation is a program that integrates classroom theory with practical experience in the workplace. The program links the resources of secondary schools, business, industry, and the community to provide young people with a highly motivating educational experience.

During Grades 11 and 12, students enrolled in Career Preparation are required to take a selection of 4 courses (16 credits) numbered 11 or 12. **Students take either one or two related Focus Area courses (depending on the CP program), one or two support courses, and CPWE 12, which is work experience totaling 100-120 hours.** This allows students to put to practical use some of the skills, techniques, and knowledge learned in their chosen Career Preparation area.

All Career Preparation Program students will register in the CPWE 12 (Work Experience) course in addition to their sixteen courses taken during the grade 11 and 12 years. Students may wish to make written application for a study block in their grade 12 year. Applications for a study block will be reviewed on an individual basis.

In addition to providing work experience, the program can help students to make decisions about their future careers and to gain confidence in making the transition from secondary school to the world of work or post-secondary education.

One should not confuse the Career Preparation Programs with any "Pre-Employment" programs that one may be familiar with. Career Prep leads to academic graduation with a "Dogwood" certificate and students can combine career prep with university entrance requirements. Career Preparation is designed to promote closer associations between students and working adults who are willing to share their knowledge. Experienced employees can help students to gain a practical orientation to employment and to career development within their chosen career field.

For 2017-2018, McMath is offering Career Preparation Programs in the following areas:

Health Sciences & Biotechnology Human Services

Law & Law Enforcement Computer Assisted Design/Drafting

Information Technology Computer Applications & Technology in Business

Business Management (Accounting)

Marketing

For more information about Career Preparation, please see the specific teacher attached to the program or talk to your counsellor.

NOTE: STUDENTS MUST SELECT **FOUR (4) COURSES** (INCLUDING CP WORK EXPERIENCE) FROM THE DESIRED C.P. COURSE OFFERINGS IN THIS SECTION.

C.P. BUSINESS EDUCATION (FOUR STRANDS)

There is expected to be nearly 1.5 million jobs created in the areas of Business Communication, Information Management and Information Technology. Therefore, you may want to think about increasing your computer and communication skills. Are you looking at a job option or career in Business Education or Information Technology? If you are interested in pursuing this area then you may want to consider the Career Preparation program in Business Education or Information Technology.

The Business Education Career Preparation program offers an opportunity for students interested in the business field to practice school-based learning in a business environment. Students specialize in a specific area of Business and then go to work for a company in our community to gain experience and to help students prepare for further post secondary education, and to make informed career choices. The areas available will be in Computer Applications & Technology in Business, Financial Management (Accounting), Business Management, and Marketing.

CAREER PROGRAMS

COMPUTER APPLICATIONS AND TECHNOLOGY IN BUSINESS STRAND

Focus Courses: Multimedia & Computer Applications 11 and C.P. Work Experience 12

Support Courses 11 Support Courses 12

Keyboarding 11 Business Information Management 12

A Math 11 Accounting 12

Accounting 11 Financial Accounting 12

A Modern Language 11 Marketing 12

Marketing 11 Information & Communications Technology 12

Information & Communications Technology 11 A Modern Language 12

Arts 11

RECOMMENDED: Business Information Management 12, Information & Communications Technology 11

FINANCIAL MANAGEMENT (ACCOUNTING) STRAND

Focus Courses: Accounting 11 or Financial Accounting 12, and C.P. Work Experience 12

Support Courses 11Support Courses 12Multimedia & Computer Applications 11Accounting 12

Marketing 11 Financial Accounting 12

Keyboarding 11 Business Information Management 12

Information & Communications Technology 11 A Math 12

A Math 11 Modern Language 12 A Modern Language 11 Marketing 12

Law 12

RECOMMENDED: Accounting 11, Accounting 12, Financial Accounting 12, & Business Information Mgmt. 12.

BUSINESS MANAGEMENT STRAND

Focus Courses: Marketing 12 or Business Information Management 12 and CP Work Experience 12

Support Courses 11Support Courses 12Multimedia & Computer Applications 11Marketing 12Keyboarding 11Accounting 12Marketing 11A Math 12

Accounting 11 Business Information Management 12

A Math 11 Financial Accounting 12

A Modern Language 11 Law 12

Information & Communications Technology 11

RECOMMENDED: Business Information Management 12, Marketing 11, Marketing 12 and one of Accounting

11 or Financial Accounting 12.

MARKETING STRAND

Focus Courses: Marketing 11 or Marketing 12, and C.P. Work Experience 12

<u>Support Courses 11</u> Support Courses 12 Multimedia & Computer Applications 11 Marketing 12

A Math 11 Business Information Management 12

Accounting 11 Accounting 12

A Modern Language 11 Financial Accounting 12

Information & Communications Technology 11

RECOMMENDED: Marketing 11, Marketing 12, Business Information Management 12 and one of Accounting

11 or Financial Accounting 12.

C.P. COMPUTER ASSISTED DRAFTING, DESIGN & DIGITAL ANIMATION

Computer Assisted Drafting and Design (CADD) and Digital Animation are exciting fields in our technologically advanced society. Students entering this highly desired field will focus on developing skills in either drafting and design or animation, or both. Classroom theory is integrated with 100 hours of practical experience in the community and workplace. Post secondary entrance requirements may be obtained in conjunction with this program.

Program Emphasis:

- Techniques and conventions used in graphic design and communication
- Technical terminology
- Standards as applied to 2D and 3D
- Engineering applications
- Architectural applications
- Animation applications

Placement opportunities include: Architectural firms, Engineering firms, Interior Design businesses, Commercial Art, Animation, and Advertising businesses. Employment opportunities related to the Computer Assisted Drafting and Design (CADD) and Digital Animation Career Preparation Programme include: Architectural and Mechanical Drafter, Interior Designer, Drafting Technician, Engineer, Architect, Designer, Game Designer, Advertiser, and Animator.

<u>Focus Courses:</u> Drafting and Design 11, Drafting and Design 12, CP Work Experience and Drafting and Design 12: Technical Visualization for those concentrating on animation.

Support Courses 11: Support Courses 12:

Math 11 Math 12 Industrial Design 11 Physics 12

Physics 11 Industrial Design 12
Information & Communications Technology 11 Carpentry and Joinery 12

C.P. HEALTH SCIENCE & BIOTECHNOLOGY

This program will give students the theoretical background and practical experience necessary to pursue careers related to the Health Science Field.

The Health Science Career Preparation Program provides students with the opportunity to:

- Develop employment skills and gain practical experience
- Explore potential career options
- Relate in-school curriculum to the work place
- Develop awareness of personal qualities essential for success in the work place

The Health Science Program emphasizes: Human Physiology and Anatomy, Injury, Prevention and Rehabilitation, Exercise Management, Career and Employment Preparation, Nutrition, Contemporary Issues in Health, Biotechnology and Genetic Engineering.

Focus Courses: Biology 11, Chemistry 11, choice of Biology 12 or Chemistry 12, and C.P. Work Experience 12

Support Course 11: Support Courses 12:

Physical Education 11 Physics 11 Physical Education 12 Biology 12 Foods 11 Math 11 Chemistry 12 Foods 12 Marketing 11 Math 12

Example of employment opportunities related to the Health Science Career Preparation Program are: Physiotherapist, Nutritionist, Doctor, Dentist, Registered Nurse, Dental Hygienist, Fitness Trainer, Veterinarian, Dental Assistant, Community Health Care, First Aid Attendant, Medical Lab Technician, Occupational Therapist, Message Therapist, Social Worker, Pharmacist. Some of these employment opportunities can be directly accessed after high school graduation, while others require further study.

C.P. INFORMATION TECHNOLOGY

This program will provide Information Technology (computer science) students with a solid academic foundation as well as a variety of practical experiences with the technical aspect of computers, computer programming or computer applications in multimedia. Multimedia is the new currency of information exchange being used in many new industries. The Career Preparation Program in Information Technology will help prepare students for further post secondary education and potential careers in the rapidly expanding Information Technology industry.

<u>Focus Courses:</u> Information & Communications Technology 11, Information & Communications Technology 12, and C.P. Work Experience 12

Support Courses 11 Support Courses 12

A Math 11 A Math 12

Accounting 11 Financial Accounting 12

Keyboarding 11 Accounting 12 CADD 11 CADD 12 Marketing 11 Marketing 12

Multimedia & Computer Applications 11 Business Information Management 12

Photography 11 Photography 12
Music Composition 11 Music Composition 12

RECOMMENDED: Mathematics 11, Mathematics 12

C. P. LAW & LAW ENFORCEMENT

This program would explore the various law & law enforcement professions: lawyer, paralegal, policing, probation, corrections, sheriff services, customs/immigration, and parole. Students would become acquainted with these professions and select one or more of them for further career exploration through their work experience placement. It is quite possible that a partnership between McMath and The Justice Institute could be developed with this program.

Focus Courses: Social Studies 11, Law 12, and Career Prep Work Experience 12

Support Courses 11: Support Courses 12:

Marketing 11 Business Information Management 12

Accounting 11 Marketing 12

Physical Education 11 Physical Education 12

Information & Communications Technology 11 History 12

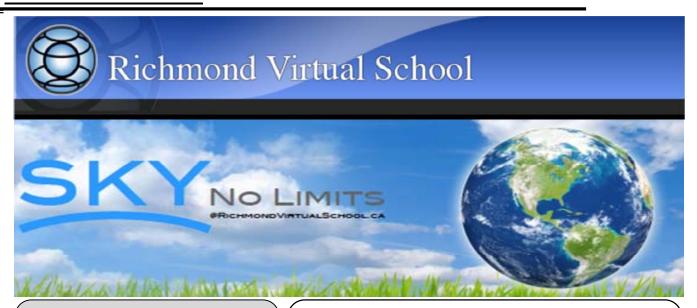
Multimedia & Computer Applications 11 Economics 12

A Language 11 Accounting 12

Financial Accounting 12

A Language 12 Social Justice 12

NOTE: STUDENTS MUST SELECT **FOUR** (4) COURSES (INCLUDING WORK EXPERIENCE) FROM THE C.P. COURSE OFFERINGS IN THIS SECTION



Examples of Courses Offered by RVS

Biology 11, 12 Calculus 12 Chemistry 11, 12 Dance 10-12 **Economics 12** English 11, 12, AP12 Foods and Nutrition 11, 12 Foundations and Pre-Calculus 10 Foundations of Math 11, 12 French 12 Geography 12 History 12 **Independent Directed Studies** Law 12 Mandarin 11, 12 Physics 11, 12 Planning 10 Pre-Calculus Math 11, 12 Psychology AP12 SKY - Project Based Learning Social Studies 11 Writing 12 Young Entrepreneur Leadership

The **Richmond Virtual School** (RVS) is a Distributed Learning secondary school that uses a blended model of online and face-to-face interaction to deliver high quality and dynamic learning opportunities to Richmond students. We have one of the highest success rates in BC.

Our blended learning approach provides more choices for students, teachers, and schools. RVS students have the flexibility to learn the course content at a time that works for them. As independent learners, students will also benefit from developing life-long learning skills that will prove useful in other online learning opportunities.

We provide free academic and elective courses in grades 10 to 12. Students can take one or more courses through RVS and still be registered in their home school. We also offer a personalized project based learning program, for grade 11 and 12 students, called SKY. This year we are opening up this exciting and dynamic SKY program to grade 8 students. See our website for information on SKY and our other innovative programs.



and more ...

Register at

RichmondVirtualSchool.ca

Contact us: rvs@sd38.bc.ca 604-668-6371

QR code to RVS



Explore your passions! Be active in your education!

Every **Day 2**, on a **flexible and self-directed timetable** at Richmond Virtual School with SKY teachers mentoring all day.

Students will make **connections** with professionals during **work experience** and **cross-curricular projects** and work **collaboratively** in their choice of at least 4 program courses:

- Biology 11, 12
- Chemistry 11, 12
- English 11, 12
- Independent Directed Studies 11, 12
- •Work Experience 11, 12
- Choice of: Environmental Sustainability 11, Geography 12, Planning, Social Studies 11, YELL Entrepreneurship, etc...

On **Day 1**, students will be back at their home school taking their other courses.

Register at http://RichmondVirtualSchool.ca

District Career Education Programs

http://careerprograms.sd38.bc.ca

@sd38careers



Richmond School District offers several opportunities for high school students to explore and gain credentialing in a skilled trade while completing their secondary school graduation diploma. These are offered to students through two types of apprenticeship programs:

Youth WORK in Trades Program (formerly SSA)

Overview:



- This apprenticeship program consists of <u>work-based training</u> (up to 480 hours) (with some accompanying assignments and employer evaluations).
- The work must be in a recognized* trade and must be <u>PAID</u> work.
- Students must be between the ages of 15-19.
- Hours accrued can be credited with the ITA* toward your apprenticeship training requirements.
- Students may earn up to 16 high school credits for PAID WORK (480 hours)!
- Upon completion, you may be eligible to earn a \$1000 award (must attain a C+ average or higher in your Grade 12 courses).
- During high school, **students may concurrently apply to enroll in a District** *Youth TRAIN in Trades* **program** (see below) OR, upon graduation students have an opportunity to register in a college/university technical training program for their trade.

Youth TRAIN in Trades Program (formerly ACE IT)





- The Richmond School District offers a variety of *TRAIN in Trades* programs to Grade 11 and 12 students in many skilled trades. This is the technical (classroom) training component of an apprenticeship.
- Students **earn** both **post-secondary school** and high school credit. (Where the program has a college/university partner, apprentices gain early entry into that school.)
- While some programs take place in Richmond School District high schools, several others are offered full-time on-site at a college/university campus (e.g. construction electrician, welding, carpentry, auto refinishing etc).
- Richmond SD38 pays the cost of tuition (a savings up to \$4000). Students cover consumable costs such as textbooks, tool kit, uniform,
 U-pass, post-secondary fees etc. (approx.. \$500 \$1500)
- In some programs, there is a required WORK in Trades component. This typically occurs after school hours or on weekends. The acquired hours may be credited toward the ITA's work hours required for the trade of study.

For more information contact your School Counselor, Career Information Advisor or the District Career Programs Office at 604-668-6000 (extension 3766).

















^{*}Refer to the Industry Training Authority (ITA) website for a list of apprenticeable trades in BC <u>www.itabc.ca</u>.



TRADE PROGRAM INFORMATION



- Start post-secondary trades training while still in high school!
- Earn TRIPLE credits (college, high school and industry)!
- Get ahead of the wait-list line!
- Acquire your Trade Worker ID with the Industry Training Authority!
- Use your computer skills in a practical way!



Youth TRAIN in Trades (formerly ACE IT)

- Classroom technical component a trades training
- Trained by a Red Seal certified journeyperson
- Choose from a wide variety of trade offerings (see next pages)



Youth WORK in Trades (formerly SSA)

- Work hours earned in the trade (paid work)
- Must be an ITA trade
- Must have Red Seal journeyperson supervision
- Students in grades 11 or 12 can apply for any program for which they have met the minimum prerequisite requirements.
- Preference will be given to students in their graduating year.
- Students must not be 20 years of age upon completion of a program.

^{**}ALL "TRAIN" PROGRAMS ARE POST-SECONDARY TECHNICAL TRADES PROGRAMS**

TRAIN IN TRADES PROGRAMS IN SD38 SCHOOLS

FOR MORE DETAILS ABOUT EACH PROGRAM:

- 1. SEE YOUR COUNSELLOR FOR A PROGRAM-SPECIFIC FLYER TO TAKE HOME
- 2. FIND THESE FLYERS ON THE CAREER PROGRAMS WEBSITE (UNDER "FORMS AND FLYERS")

http://careerprograms.sd38.bc.ca

3. CONTACT THE DISTRICT CONTACT INDICATED FOR EACH PROGRAM TO COMPLETE A SITE VISIT

TRAIN IN TRADES PROGRAM, LOCATION &SCHEDULE	CREDITS AND CERTIFICATION EARNED	ENTRY REQUIREMENTS	FOR MORE INFORMATION
 PLUMBING Sept – June (Palmer Secondary on Day 2's) Includes 4 separate weeks @ Piping Industry College May attend home school on alternate days 	 Pass course work and ITA exam (blended) and earn Level 1 technical training certification Receive 16 credits (4 courses at Grade 12 level) 	 English 11 or Comm. 11 Any Math 11 Physically able (tight spaces, moving heavy equipment) Successful result on skills assessment 	Career Programs Contact: Ms. Suzanne Mah (Admin Assistant) 604-668-6000 EXT.3766
			sumah@sd38.bc.ca
 PROFESSIONAL COOK 1 Sept – June (Richmond Secondary on Day 2's) July – August (5 weeks summer after at Vancouver Community College) May attend another school on Day 1 	 Pass PC1 ITA exam, Practical exam and course work to earn Level 1 technical training certification Receive 20 credits (4 courses + 1 work experience at Grade 12 level) 	 English 11 or Comm.11 Any Math 11 Able to work in a fast-paced, multi-tasking environment Successful result on skills assessment Foodsafe Level 1 Certification (can complete in summer prior to program start) 	Career Programs Contact: Ms. Suzanne Mah (Admin Assistant) 604-668-6000 EXT.3766 SUMAH@SD38.BC.CA
AUTO SERVICE TECHNICIAN	IF INTERESTED, PLEASE SUBMIT AN APPLICATION. BE SURE TO CHECK IN EARLY 2017 AS TO THE STATUS OF THIS PROGRAM AND IF IT WILL BE OFFERED FOR 2017/2018.		
HAIR STYLIST		MIT AN APPLICATION. BE SURE PROGRAM AND IF IT WILL BE O	

ITA = INDUSTRY TRAINING AUTHORITY ... governing body of all apprentices in BC (www.itabc.ca)

TRAIN in TRADES APPLICATION DEADLINES

(Priority given to earlier applicants who meet program eligibility requirements)

1st Deadline - Wednesday, March 8th, 2017 (Baking Program Applicants <u>must</u> meet first deadline)

2nd Deadline – Wednesday, April 12, 2017 Note: *WORK in Trades* applications accepted at any time

TRAIN IN TRADES PROGRAMS @ COLLEGE/UNIVERSITY

- 1. ALL APPLICANTS **MUST COMPLETE A PROGRAM SITE VISIT** PRIOR TO FINAL ACCEPTANCE
- 2. DRIVER'S LICENSE STRONGLY RECOMMENDED
- 3. FIND THESE FLYERS ON THE CAREER PROGRAMS WEBSITE (UNDER "FORMS AND FLYERS") http://careerprograms.sd38.bc.ca

4. FOR THESE PROGRAMS, CONTACT MS. SUZANNE MAH 604-668-6000 EXT 3766 sumah@sd38.bc.ca

	4. FOR THESE PROGRAMS, CONTACT MS. SUZANNE MAH 604-668-6000 EXT 3766 sumah@sd38.bc.ca		
TRAIN IN TRADES PROGRAM, LOCATION &SCHEDULE	CREDITS AND CERTIFICATION EARNED	ENTRY REQUIREMENTS	
AUTO COLLISION REPAIR Vancouver Community College (Broadway Campus) Mid-January – Late-August 2nd semester full-time	 Pass ITA exam and course work to earn Level 1 technical training certification 4 week work practicum Receive 24 credits (6 courses) at Grade 12 level 	 Math 10 English 11 or Communications 12 Strong attendance and punctuality records Mechanical aptitude and interest 	
AUTO REFINISHING PREP TECHNICIAN Vancouver Community College (Broadway Campus) February – July 2 nd semester full-time	 Pass ITA exam and course work to earn Level 1 technical training certification 50% theory & 50% practical skill acquisition + 4 week work practicum Receive 16 credits (4 courses) at the Grade 12 level 	 Math 10 & Eng 11 or Comm 12 Good manual dexterity, hand-eye coordination, eyesight & normal colour vision Good line, form & depth perception Good respiratory health 	
BAKING & PASTRY ARTS Vancouver Community College (Pender Street Campus) August – January 1st semester full-time Start summer between grades 11 and 12	 Pass ITA exam and course work to earn Level 1 technical training certification Receive 28 credits (7 courses) at the Grade 12 level Must apply PRIOR to Spring Break (March 8th, 2017 Deadline) Must participate in a one-week practical interview in VCC kitchen Interviews May 2017 @ VCC 	 Foodsafe Level 1 Teacher or Counsellor reference 2.5 grade pt. average minimum Physically able Previous baking and/or cooking experience recommended 	
CARPENTRY (FRAMING & FORMING) BCIT (Burnaby Campus) • February – July • 2 nd semester full-time	 Pass two ITA exams and course work to earn both Level 1 and 2 technical training certifications Receive 16 credits (4 courses) at the Grade 12 level 	 English 11 or Comm. 11 Any Math 11 Physically able Successful result on district entrance exam 	
CONSTRUCTION ELECTRICIAN BCIT (@ North Delta Secondary) • February - July • 2 nd semester full-time	 Pass ITA exam and EVERY course unit to earn Level 1 technical training certification Receive 20 credits (5 courses) at the Grade 12 level 	 English 12 or Comm. 12 (minimum C+) Foundation or Pre-Calculus Math 11 (C+ minimum – Math 12 recommended) Physics 11 with a C+ or better Chem 11/Physics 12 recommended Successful result on district entrance exam 	
MASONRY Kwantlen Polytechnic University (Cloverdale Campus) February - June 2nd semester full-time	 **PLEASE VERIFY WITH THE CAREER PROGRAMS OFFICE IF THIS WILL RUN in Spring 2017** Pass ITA exam/ course material to earn Level 1 technical training certification Earn 16 Gr. 12 credits (4 courses) 	 English 10 Any Math 10 Grade 11 completion recommended Physically strength for lifting Good work ethic 	

TRAIN IN TRADES PROGRAM, LOCATION & SCHEDULE	CREDITS AND CERTIFICATION EARNED	ENTRY REQUIREMENTS
METAL FABRICATION BCIT (Burnaby Campus) February - July 2nd semester full-time	 Pass ITA exam and course material to earn Level 1 technical training certification Course design: 50% practical & 50% theory Receive 20 credits (5 courses) at the Grade 12 level 	 Any Math 11 – minimum 70% Grade 11 completion recommended Physically able Motivated and disciplined Successful result on BCIT math exam
MILLWRIGHT Kwantlen Polytechnic University (Cloverdale Campus) February – July 2nd semester full-time	 Program includes a math and communications course at KPU Pass ITA exam and course material to earn Level 1 technical training certification Receive 20 credits (5 courses) at the Grade 12 level 	 Strong academic skills Grade 11 completion Physics 11 suggested Good eye/hand coordination Ability to learn by "reading and doing" Physically able
MOTORCYCLE TECHNICIAN BCIT (Burnaby Campus) February - July 2nd semester full-time	 Pass ITA exam and course material to earn Level 1 technical training certification Receive 16 credits (4 courses) at the Grade 12 level 	 Any Math 11 – minimum 70% Grade 11 completion recommended BCIT pretest for English, Math, mechanical reasoning Motivated & disciplined
PAINTING (COMMERCIAL) Finishing Trades Institute of BC FTI (North Surrey) June-July of Grade 11 or 12 6 weeks full-time	 Pass ITA exam and course material to earn Level 1 technical training certification Receive 4 credits (1 course) at the Grade 12 level 	 Open to students in Grades 11 and 12. Must apply by mid-May at the latest Physically able
WELDING Kwantlen Polytechnic University (Cloverdale Campus) February – August 2 nd semester full-time	 Program includes a math and communications course at KPU Pass ITA exam and course material to earn Level 1 technical training certification Receive 24 credits (6 courses) at the Grade 12 level 	 English 10 and Math 10 Gr. 11 completion recommended Ability to learn by "reading and doing" Physically able Good Hand/eye coordination

WORK IN TRADES (FORMERLY SSA)

CONTACT: Ms. Jessica Regan, 604-668-6000 (EXT 3796)

- ARE YOU ALREADY EMPLOYED (PAID) IN AN APPRENTICEABLE TRADE?
- ARE YOU BETWEEN THE AGES OF 15 AND 19 AND WORKING WITH A CERTIFIED TRADE PERSON WHO IS WILLING TO SPONSOR YOU?
- EARN UP TO 16 HIGH SCHOOL CREDITS WHILE WORKING (480 HOURS)! EARN WHILE YOU LEARN!
- MAY QUALIFY FOR A \$1000 AWARD BY MAINTAINING A C+ AVERAGE IN GRADE 12 COURSES
- ENCOURAGED TO BE ENROLLED IN BOTH <u>TRAIN AND WORK IN TRADES</u> PROGRAMS.
- VISIT <u>www.itabc.ca</u> to view over 120 trades approved by the Industry Training Authority (ITA)
- FIND SEPARATE WORK IN TRADES APPLICATION FORM (SEE COUNSELLOR OR CAREER PROGRAMS WEBSITE)

Work Experience (WEX 12A and WEX 12B)

What is Work Experience (WEX)?

WEX 12A and 12B are school-sponsored work experience courses that provide students the opportunity to engage in career exploration through community-based work and volunteer opportunities. Students participate in a variety of work-based activities related to an occupation or career focus area of interest. Each course comprises 90 hours minimum of work/volunteer experience and 10-30 hours in-class learning activities.

Rationale for Work Experience:

Work experience is intended to help prepare students for the transition from secondary school to the world of work or further education and training. The community becomes the classroom where students gain knowledge and experience about the workplace and are provided with a frame of reference to review or revise their career goals. Work experience provides students with an opportunity to apply classroom learning in a context outside of school and to bring back to the classroom new perspectives to further develop their personal career transition plans.

Goals of each Work Experience course include to:

- observe and practice employability skills required in the workplace as well as technical and applied skills related to specific occupations.
- connect classroom learning to the knowledge, skills and attitudes needed in the workplace.
- develop job-readiness skills for specific occupations and/or career areas.
- learn about employment expectations, regulations and practices.

Prior to Starting a Work Placement for WEX 12A and 12B:

- students must be able to demonstrate job-seeking skills, including resume writing and job interview skills.
- students should be able to demonstrate an understanding of workplace risk reduction and injury prevention.
- the Planning 10 learning outcomes related to job seeking, job keeping, employment standards and workplace safety, must be successfully completed.

Career Focus Areas for students to select from may include:

- 1. Business and Applied Business
- 2. Fine Arts, Design, and Media
- 3. Fitness and Recreation
- 4. Health and Human Services
- 5. Liberal Arts and Humanities
- 6. Science and Applied Science
- 7. Tourism, Hospitality, and Foods
- 8. Trades and Technology

Note:

- These course are not intended as "instant credits" for students who have a part-time job.
- The time given to work experience may be within the timetable or outside of the timetable. Care will be taken to limit the loss of class time during work placements. After school, weekend, school Professional Development days, and possibly even holidays may be used for work experience.

COURSE DESCRIPTIONS

On the following pages you will find course descriptions for courses in the following curricular areas

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PLEASE NOTE: THE FOLLOWING COURSE DESCRIPTIONS ARE REPRESENTATIVE OF THE WIDE RANGE OF CURRICULAR OPPORTUNITIES AVAILABLE TO STUDENTS. STUDENT ENROLMENT WILL DETERMINE WHICH COURSES ACTUALLY RUN.

Education is what remains after one has forgotten what one has learned in school.

Albert Einstein

GENERAL ART COURSES

ART FOUNDATIONS 8 (MVA--08)

This course is a foundations course for students of all artistic abilities. The main focus in Art 8 is the exploration of different media: drawing, painting, printmaking, and sculpture. Historical and cultural influences in Art and personal expression are also explored. Make your creative ideas come to life! Basic supplies will be provided to students in order to meet the learning outcomes of all courses. Should a student wish to use optional materials to enhance or elaborate upon the learning outcomes, then these may be purchased directly (and brought to the school) or through the school on a cost-recovery basis.

ART FOUNDATIONS 9 (MVA--09)

Art 9 is a foundations course designed for the beginning art students and for those who would like to continue exploring 2-dimensional art (drawing, painting, and printmaking) and 3-dimensional art (ceramics and multimedia sculpture). Many elements of design are studied, as well as related historical/cultural influences. Skills in the critical analysis of students' own work and that of others are developed. Basic supplies will be provided to students in order to meet the learning outcomes of all courses. Should a student wish to use optional materials to enhance or elaborate upon the learning outcomes, then these may be purchased directly (and brought to the school) or through the school on a cost-recovery basis.

ART FOUNDATION 10 (MVAG-10)

This course is designed for students who love to draw, paint and create 3-dimensional art forms. It is organized into themes designed to stimulate the imagination, encourage interpretation, expression and development of personal imagery. Cubism, surrealism and expressionism are some of the art movements explored through drawing, painting, sculpture and printmaking. Basic supplies will be provided to students in order to meet the learning outcomes of all courses. Should a student wish to use optional materials to enhance or elaborate upon the learning outcomes, then these may be purchased directly (and brought to the school) or through the school on a cost-recovery basis.

ART FOUNDATIONS 11 (MAF--11)

Art 11 provides a foundation program for beginning art students, and it allows advanced students to continue developing their interests and expertise in

drawing, painting, printmaking and sculpture. Students will explore related cultural/historical issues with emphasis on personal and social relevance. All students will be expected to maintain a sketchbook of their visual thinking and exploration. Basic supplies will be provided to students in order to meet the learning outcomes of all courses. Should a student wish to use optional materials to enhance or elaborate upon the learning outcomes, then these may be purchased directly (and brought to the school) or through the school on a cost-recovery basis.

ART FOUNDATIONS 12 (MAF--12)

Prerequisite: an Art 11 or teacher permission

This course provides opportunities for students who wish to improve basic skills and develop their own style in creating unique and personal images. Students will explore related cultural and historical issues with an emphasis on personal and social relevance. All students will be expected to develop a portfolio of their work and maintain a sketchbook/journal of their visual thinking and exploration. Basic supplies will be provided to students in order to meet the learning outcomes of all courses. Should a student wish to use optional materials to enhance or elaborate upon the learning outcomes, then these may be purchased directly (and brought to the school) or through the school on a cost-recovery basis.

CERAMICS & SCULPTURE COURSES

ART 3D: CERAMICS & SCULPTURE I (MVAC-10)

This course is designed for students in grade 9 & 10 who wish to explore various 3-dimensional art processes. Several projects will focus on developing skills in ceramics. Other projects may include plaster, soapstone, wood and fabric. Traditional and contemporary styles and methods will be explored. Basic supplies will be provided to students in order to meet the learning outcomes of all courses. Should a student wish to use optional materials to enhance or elaborate upon the learning outcomes, then these may be purchased directly (and brought to the school) or through the school on a cost-recovery basis.

ART 3D: CERAMICS & SCULPTURE II (MSACS11)

This is a course for students who wish to focus their studies on 3D Art. Projects will include clay hand building skills for ceramics, sculpture, and an introduction to the potter's wheel. Other projects may include sculptural materials such as plaster, paper mache, wood, wire, found object and paper pulp. Basic supplies will be provided to students in order to meet the learning outcomes of all courses. Should a student wish to use optional materials to enhance or elaborate upon the learning outcomes, then these may be purchased directly (and brought to the school) or through the school on a cost-recovery basis.

ART 3D: CERAMICS & SCULPTURE III (MSACS12)

Recommended: 3D II

This is a course designed for students wishing to continue their studies in 3D Art. Students will explore in depth 1-2 media of their choice such as clay, plaster, paper mache, wood, wire, found object and paper pulp. Emphasis will be on students developing their own personal imagery and style. Basic supplies will be provided to students in order to meet the learning outcomes of all courses. Should a student wish to use optional materials to enhance or elaborate upon the learning outcomes, then these may be purchased directly (and brought to the school) or through the school on a cost-recovery basis.

DRAWING & PAINTING COURSES

ART 2D: DRAW & PAINTING I (MVAD-10)

This course is for students in grade 9 & 10 who love to draw and paint. Students will gain expertise in a variety of drawing and painting techniques and will become acquainted with various art styles and trends. All students will be expected to maintain a sketchbook of their visual thinking and exploration. Additional 2D projects may include printmaking, collage, and poster design projects. Basic supplies will be provided to students in order to meet the learning outcomes of all courses. Should a student wish to use optional materials to enhance or elaborate upon the learning outcomes, then these may be purchased directly (and brought to the school) or through the school on a cost-recovery basis.

ART 2D: DRAW & PAINTING II (MSADP11)

This course is for students who love to create imagery on 2D surfaces. Drawing, painting, printmaking, and multimedia will be explored through a variety of materials and themes. Explorations will focus on personal, historical and cultural ideas. Students will learn basic techniques and will be challenged to create unusual and creative pieces. Students will be expected to keep a visual journal as a record of their ideas, image development and explorations. Basic supplies will be provided to students in order to meet the learning outcomes of all courses. Should a student wish to use optional materials to enhance or elaborate upon the learning outcomes, then these may be purchased directly (and brought to the school) or through the school on a cost-recovery basis.

ART 2D: DRAW & PAINTING III (MSADP12)

Recommended: any Art 11

The objective of this advanced art course is to explore drawing, painting, printmaking and multimedia using creative and unusual strategies. Students will be challenged in a variety of media to create personal, historical and cultural artwork. Students will be expected to keep a sketchbook as a record of their ideas, observations, image development and explorations. Basic supplies will be provided to students in order to meet the learning outcomes of all courses. Should a student wish to use optional materials to enhance or elaborate upon the learning outcomes, then these may be purchased directly (and brought to the school) or through the school on a cost-recovery basis.



PHOTOGRAPY COURSES

PHOTOGRAPHY I (YVPA-0A)

This course is designed for the beginning photographer. Students will build a strong foundation in photography through theory and practice. Students will become familiar with functions of the digital and film camera, photographic processes, elements of composition, the art of developing and printing 35 mm black & white photographs and editing digital photos using Adobe programs. Studio lighting techniques will also be explored. Evaluation will be based on shooting assignments, and written assignments Basic supplies will be provided to students in order to meet the learning outcomes of all courses. Should a student wish to use optional materials to enhance or elaborate upon the learning outcomes, then these may be purchased directly (and brought to the school) or through the school on a cost-recovery basis.

Requirements:

- Your own digital point and shoot camera is required however a DSLR is preferred. Access to a 35 mm camera, preferably a manual single lens reflex camera with adjustable features, would be an advantage for this course as the school has a limited supply.
- 2. Binder, glue stick.

PHOTOGRAPHY II (YPVA-1A)

Prerequisite: Photo I

This level II course is designed for students to further refine the skills and techniques learned in Photography I. Emphasis will be on learning new methods to create and communicate your ideas, thoughts, and themes to leave a lasting resonance with the viewer. Students will become more familiar with studio equipment, special printing techniques, and capturing and editing digital images. Evaluation will be based on assignments, projects, written/practical tests and a portfolio comprised of your best work. Basic supplies will be provided to students in order to meet the learning outcomes of all courses. Should a student wish to use optional materials to enhance or elaborate upon the learning outcomes, then these may be purchased directly (and brought to the school) or through the school on a cost-recovery basis.

Requirements:

- 1. Access to a DSLR camera
- 2. Hard bound blank paged journal

PHOTOGRAPHY III (YPVA-2A)

<u>Prerequisite</u>: VAMT11 or Photo I teacher

permission

This very unique course will offer advanced creative photographic opportunities to students who wish to explore and manipulate traditional photography techniques and multimedia for creative, communicative purposes. Emphasis will be on personal, social, historical and political ways of expression through photographic process. This course provides excellent opportunity for students considering a career in the communication arts to help build a quality portfolio necessary for art school admission. Assignments will be self-directed under selected branch topics. At this level students are expected to be self-motivated and work independently to develop their own unique personal style. Evaluation will be based on assignments, projects, practical research and a final portfolio. Basic supplies will be provided to students in order to meet the learning outcomes of all courses. Should a student wish to use optional materials to enhance or elaborate upon the learning outcomes, then these may be purchased directly (and brought to the school) or through the school on a cost-recovery basis.

Requirements:

- 1. Access to a DSLR camera
- 2. Hard bound blank paged journal this can be the same one used in Art Photography Level II.



AP ART COURSES

ART STUDIO HONOURS 11 (MFNA-11)

Recommended: an Art Foundations 9 or 10 In this course students will begin to understand the nature of the AP Program for Drawing, 2-D Design or 3-D Design. These students will begin to discover personal areas of strength and style and establish a portfolio demonstrating a breadth of ability. Students will decide which exam portfolio is most appropriate and will explore post secondary options. This course is highly recommended for students who plan to take Art 12 AP in their final year. Basic supplies will be provided to students in order to meet the learning outcomes of all courses. Should a student wish to use optional materials to enhance or elaborate upon the learning outcomes, then these may be purchased directly (and brought to the school) or through the school on a cost-recovery

AP ART STUDIO 12 (ASAD-12)

basis.

Recommended: any Art or Photo Experience

This is a demanding and intensive studio course that gives high school students the opportunity to receive advanced placement or credit at participating colleges or universities. Studio Art 12 AP is designed to assist and guide the student in the preparation of a portfolio that will be evaluated by AP Faculty Consultants at the end of May in Princeton, New Jersey. Emphasis is placed on the exploration of ideas and the development of unique imagery and techniques to represent those ideas in the strongest possible way. Since teachers at this level of the visual arts are guides and advisors just as much as instructors, students must be self-motivated and self-disciplined to be successful. Experience has proven that most students require two senior art courses, in addition to devoting many additional hours outside of class, to complete portfolios that earn more than a mere pass. As well, students are responsible for the costs of the shipping and the evaluation of their portfolio. Areas of focus include Drawing, 2-D Design and 3-D Design. Basic supplies will be provided to students in order to meet the learning outcomes of all courses. Based on the interest of the students, there will be an option to take this course online.

YEARBOOK

YEARBOOK 11/12 (MVAMT11/MVAMT12)

Recommended: Photo I or Photo II

This unique course is designed to give students a variety of experience in the Graphic Publishing field. The majority of graphic and computer projects for this course involve the production and creation of the school yearbook! This is a course for mature students who are able to work under very strict deadlines and are able to commit time after school in order to meet them. Students will develop valuable skills and knowledge in the areas of graphic design, photography, page layout and journalism. Other graphic projects may include calendars, stationary, advertisements, CD and magazine covers. Due to the limited enrolment, students may be asked to submit an application for the course and participate in a brief interview. Please see the Fine Art Department for information. Grades 10-12

Requirements:

- 1. Access to a DSLR is preferable for this course.
- 2. Binder



Business Education courses offer a variety of opportunities for students.

Many of the assignments in all of the Business Education courses meet many of the skill components of the Graduation Transitions requirements. Be prepared for tomorrow's workplace challenges – take a course in Business Education or Information & Communications Technology today!

BUSINESS & COMPUTER TECHNOLOGY EDUCATION 8 (MBE--08)

This is a mandatory survey course for grade 8 students. The students will rotate through the three applied skills areas: Business Education & Computer Technology, Home Economics, and Technology Education. The Business Education component of the course will include MS Word formatting skills, iPhoto, Photo Booth, GarageBand and may include an introduction to Object Oriented Scripting/Coding. Students will also become familiar with the use of the Internet with respect to social media, safety and as a research tool. Correct keyboarding skills/technique will also be covered.

GENERAL BUSINESS COURSES

BUSINESS EDUCATION 10 (MBEG-10)

Open to students in grades 9 & 10

Business Education 10 introduces students to the world of business and the opportunities within it. Students will develop the personal economic survival skills necessary in today's society. A discovery, problem-solving approach is used. This course will give students a chance to learn about Marketing, Accounting, Law, Entrepreneurship, Economic systems and Personal Finance. Knowledge and skills learned in Business Education are useful on both a personal level and as a basis for other business courses. From their introduction to each of these areas, students may wish to further explore them by taking one of the senior courses at the grade 11 and 12 level.

LAW 12 (MLAW-12)

Law 12 provides students with a basic understanding of how the law applies to them and the skills to seek the answers to legal questions. Students study various aspects of the law such as: court structure, criminal law, civil law, family law, contracts, wills, civil rights and human rights. Active class participation, mock trials, guest speakers and visits to Richmond Provincial Court, Vancouver

Provincial Court and BC Supreme Court enhance the program. Law 12 is the core course for the Career Prep Law and Law Enforcement Program.

ACCOUNTING COURSES

ACCOUNTING 11 (MAC--11)

Open to students in grades 10, 11, and 12

This is an introductory course in basic accounting principles and their applications. Accounting 11 provides basic knowledge and practical skills necessary for students planning to continue further study in Accounting or other post-secondary business programs as well as for students seeking entry-level employment. Computers may be used to enhance some of the units in this course. Students planning on entering post secondary in any business area should consider taking this course. Students are taught the basics of accounting individual/business finances. A workbook is used in the course. It is highly recommended that students purchase the workbook. However, copies will be available for students to borrow, but not write in, if the choice is made not to purchase a workbook.

ACCOUNTING 12 (MACC-12)

Prerequisite: Accounting 11 (AC 11)

Open to students in grades 11 and 12

This course provides students the opportunity to pursue and obtain a greater knowledge base in Accounting by expanding the principles and concepts taught in Accounting 11. Advanced procedures and techniques in merchandise inventory management, accounts receivable, accounts payable, and bank reconciliation are explored. This course is highly recommended for any student pursuing any post-secondary schooling in a business related field. It will cover material similar to a first year accounting course at a post secondary school. A workbook is used in this course. It is highly recommended that students purchase the workbook. However, copies will be available for students to borrow, but not write in, if the choice is made not to purchase a workbook.

FINANCIAL ACCOUNTING 12 (MFA-12)

Recommended: Accounting 11 (AC 11)

Open to students in grades 11 and 12

This course is intended for students who wish to pursue post secondary studies in accounting, finance, or business management. Advanced concepts of financial accounting encourage students to develop analytical, decision-making skills and communication skills. These skills will also be

useful to those students intending to pursue other professions. Computers may be used to enhance some of the units in this course. A workbook is used in the course. It is highly recommended that students purchase the workbook. However, copies will be available for students to borrow, but not write in, if the choice is made not to purchase a workbook.

MANAGEMENT AND MARKETING COURSES

MARKETING 11/12 (MMK--11 / MMK--12)

Students who are interested in Marketing should take both Marketing 11 (Marketing & Promotion) and Marketing 12 (Global Marketing) in consecutive years. When students sign up for these courses they receive grade appropriate credit. The approach of the course alternates each year. This year, 2017-2018, the course will have a Marketing & Promotion Approach.

Marketing 11 (Marketing & Promotion) is an introductory activity-based course in the basic concepts of marketing. Topics covered include an analysis of product, price, place, promotion, target market, Product Life Cycle, the role of advertising, ad design, marketing strategies, public relations, distribution, store layout & design and market research. This course is beneficial to students interested in entrepreneurship, employment in a service or sales position, or further study in business administration, management or a career in marketing.

Marketing 12 (Global Approach) is a study of national and international marketing with an emphasis on E-Commerce and businesses that operate globally throughout the world. Specific topics such as marketing research, market/product planning, product enhancement, promotion strategy, market segmentation, product/service strategy, and E-Commerce will be studied. This is a course that will be useful to any student considering post secondary business studies or an employment opportunity in business or more specifically a career in marketing.

DIGITAL MEDIA & INFORMATION TECHNOLOGY COURSES

DIGITAL MEDIA 11 (MICTM11)

Open to students in grades 10, 11 & 12

This Information & Communications Technology strand will focus on an introduction to digital media (multimedia) development. Photoshop, Animate (animation), Maya (modeling & texturing), HTML (web design), Final Cut (video editing) or iMovie, Audacity (digital music), and podcasting may be included. This strand will provide students with a foundation in a variety of technology skills and is ideal for all students that are interested in being creative with technology.

DIGITAL MEDIA 12 (MICTM12)

Prerequisite: ICTX 11 or ICTX 12 or ICTM 11)

Open to students in grades 11 & 12

This Information & Communications Technology strand may include Photoshop, Illustrator, Maya (modeling & texturing), Dreamweaver/HTML and Final Cut. Students will also experience and work with blogging, Google docs, and more. Consider a future of internet innovation with Web 3.0, the intelligent web, AI technologies and animation. This course is accepted as an Academic 12 course at the University of Victoria and Capilano University, program specific.

INFORMATION TECHNOLOGY 10 (MINT-10)

Open to students in grades 9 & 10

Information Technology is a course where students will have the opportunity to create animations, basic interactive games, digital music, digital image manipulation, graphic use, effective multimedia presentations, desktop publishing, and to begin to explore scripting & coding. They will also be taught about web design, online security and privacy, database management and careers in Information Technology. Software that may be included in this course are MS Office, SketchUp, Comic Life, Prezi, Scratch, Gimp, iPhoto, iMovie, Audacity, and GarageBand. This is the ideal course for all students to have that are interested in using technology in a fun & creative way.

INFORMATION & COMMUNICATIONS TECHNOLOGY 11 (MICTX11)

Open to students in grades 10, 11 & 12

This modular survey course will cover an introduction to digital media development, applied digital communication and computer programming. Students may have the opportunity to explore computer literacy, graphic design, animation, web page design, digital image manipulation, object oriented programming/coding and an introduction to video editing & production techniques. Photoshop, Xcode, Animate, iMovie, iPhoto, Audacity and GarageBand may be some of the software incorporated into this course. This strand will provide students with a good foundation in a variety of technology skills.

INFORMATION & COMMUNICATIONS TECHNOLOGY 12 (MICTX12)

Prerequisite: ICTX 11, ICTM 11
Open to students in grades 11 & 12

This modular survey course will cover an advanced look at advanced digital media development, applied communication digital and computer programming/coding. Content of the course may include web design, personal ePortfolio development, game building (Action Scripting), advanced image editing, advanced video editing & production, 3D animation and object oriented Photoshop, Xcode, Animate, programming. Dreamweaver/HTML, MS Office, and Final Cut may be some of the software used in this course.

INFORMATION & COMMUNICATIONS TECHNOLOGY 12 (MICTC12)

<u>Prerequisite</u>: ICTX 11, ICTM 11 Open to students in grades 11 & 12

Course content is the same as the description indicated above for ICTX12. If you are planning to attend University of British Columbia (program specific) University of Victoria or Capilano University (program specific), then select this course code as this course is accepted as an Academic 12 course at the indicated institutions. Please check the program specifics.

CAREER PREPARATION

INFORMATION TECHNOLOGY,
ACCOUNTING, MARKETING, BUSINESS
MANAGEMENT, LAW OR LAW
ENFORCEMENT, CAREER
PREPARATION WORK EXPERIENCE
CERTIFICATE PROGRAM

- Choose one stream: Information Technology, Accounting, Marketing, Business Management, Law or Law Enforcement
- 2. Register for one (1) or two (2) focus courses as indicated by the CP program, CPWE 12 and one (1) or two (2) support courses.
- 3. The above four (4) courses provide credit for the Certificate Program.

*SEE THE CAREER PREPARATION PROGRAMS SECTION OF THIS BOOK FOR MORE DETAILS.



ENGLISH 8 – FRENCH IMMERSION (MEN--8---FI)

The aim of this course is to develop students' communication skills (oral and written) and to experience a variety of genres in literature. Students will develop critical thinking skills through enjoying, understanding, and responding creatively to literature and media. Students continue to develop writing skills in a variety of forms and for varied audiences and purposes. These skills are taught together with meta-cognitive strategies that will enable students to become stronger readers and writers.

HUMANITIES 8 (MSS-08)

Humanities 8 is a study of the naturally complementary fields of Social Studies and English. There are many skills and processes common to both curricula. Students will look at the connections between history (from 7CE-1750CE), geography and current events. These discussions will be linked to the study of literature and English skills and strategies: reading, writing, speaking listening. The integration of these subjects will allow to student to understand that academic skills are transferable. The inter-disciplinary approach will allow students to expand their knowledge of the world, broaden their skills and perspectives, and encourage students to become informed and educated citizens.

ENGLISH 9 (MEN--09)

Prerequisite: English 8

The goal of English 9 is to promote "personal growth through introspection and reflection." Students will further develop communication skills (oral and written) and experience a variety of genres in literature and non-fiction reading. These skills are taught together with meta-cognitive strategies that will enable students to become stronger readers and writers. Reading and writing assignments will help students to appreciate "the universality of some human experiences and the uniqueness of others" and to emphasize other points of view. Clarity in oral and written expression is emphasized.

ENGLISH 10 (MEN--10)

Prerequisite: English 9

The emphasis of the Grade 10 English Language Arts program is "to enable each student to experience literature and to use language with satisfaction and confidence, striving for fluency, precision, clarity and independence." Students are given the opportunity to further develop and refine their skills in reading, writing, speaking, listening, viewing, representing and critical thinking. These skills are taught together with meta-cognitive strategies that will enable students to become stronger readers and writers. In this course, students gain experience in various communication forms with an emphasis on written expression for a variety of audiences and purposes. There will also be a concentration on the critical analysis and appreciation of more advanced literature.

ENGLISH 11 (MEN--11)

Prerequisite: English 10

English 11 represents the first component of the twoyear Provincial Language Arts graduation program. English 11 focuses on the expressive and functional purposes of language in a wide variety of contexts. This course provides students with the opportunity to study literary and informational communication, as well as the mass media and technology. Students are expected to work more independently in the graduation program, and to experiment with more sophisticated and complex uses of language.

Students will work intensively with various forms of written, spoken, and visual communication; think critically, creatively and reflectively; and develop positive and productive attitudes toward the learning and application of language. In English 11 there is a greater emphasis on more formal levels of spoken and written communication, including significantly higher expectations in various forms of writing (ie: essays, compositions, reports, etc).

ENGLISH 12 (MEN--12)

Prerequisite: English 11 or Comm 11*

English 12 is the second and final year of the graduation component of the Provincial Language Arts curriculum. English 12 focuses on the expressive and functional purposes of language in a wide variety of contexts. This course provides students with the opportunity to study literary and informational communication, as well as the mass media. The basic assumption of the course is that language is dynamic and evolving, but also systematic and governed by rules; instruction of skills embraces both of these aspects of language. As in all segments of the Language Arts program, students are encouraged to explore personal interests and aptitudes through a variety of reading, writing, and viewing activities. There is a

continuing emphasis on critical thinking and writing skills.

The Provincial Exam in English 12 counts for 40% of students' final mark.

* Students who have completed COM 11 will normally proceed to COM 12, but in certain circumstances may be allowed to enroll in English 12.

The purpose of literature is to turn blood into ink.

-T.S. Eliot

www.writerswrite.co.za

COMMUNICATIONS 11 & 12 (MCOM-11/MCOM-12)

Prerequisite: EN 10 & COM 11 or EN 11

These courses, which satisfy the Language Arts 12 requirement for graduation, are intended for those students who plan to attend post-secondary education at the college level (**) or who plan to enter the work-force after graduation. The course focus is on communication skills and experiences which are applicable to a variety of career choices. Students will study a variety of genres in literature, and non-fiction writing. Evaluation will be based on various forms of compositions; reports, letters, ads; and presentations; and reading assignments. There will be a Provincial Exam at the end of the Communications 12 course that counts for 40% of the students' final mark.

- * Students who have completed COM 11 will normally proceed to COM 12, but in certain circumstances may be allowed to enroll in English 12.
- ** Com 12 is accepted for entry to BCIT (typically only trades based programs) and many programs at Langara and Kwantlen directly out of high school. It is not accepted for direct entry at universities and some post-secondary institutions. Students are advised to check with their Counsellor that they have the correct grade 12 English courses for the post-secondary school they wish to attend.



ENGLISH 11 HONOURS (MEN--11---H) / ENGLISH 12-ap12 (AELC12)

Do you have a passion for English? Do you enjoy reading and writing? Do you love to discuss challenging ideas and abstract concepts? Do you enjoy rhetorical questions? This program is for you! AP Literature and Composition is a course that goes beyond the concepts and ideas of regular senior English. It is a two-year program which follows the College Board Advanced Placement criteria and, upon the successful completion of the exam, is the equivalent of a first year post-secondary English course.

In this program, students will study works of recognized literary merit and will use these studies as the basis for a variety of writing and oral assignments, including essays, critiques, debates and discussions. The emphasis is on literary analysis, critical thinking and reasoned, well-developed expression. There is also a heavy emphasis on thoughtful, well-reasoned and articulate discussion. Supplementary activities may include theatre and gallery visits. **Due to the nature of this course, the number of sections will be limited.**

The program includes the following two courses: English 11 Honours (EN 11H) in place of English 11

Prerequisite: English 10 (recommended B standing or higher)

English 12 - AP Literature and Composition (AELC12) in place of English 12

Registration in this course provides credit for both English 12 and AP Literature and Composition.

Prerequisite: Completion of EN 11H or, space permitting, a recommended B standing or higher in English 11.

Students are required to write the provincial government English 12 examination that accounts for 40% of the final mark. Students will also be expected to write the AP in English Literature and Composition, a three-hour exam that gives students an opportunity to demonstrate their mastery of interpretive reading and writing skills. See AP section of program planning.

ENGLISH LITERATURE 12 (MLIT-12)

Love! Death! Joy! Faith! Doubt! The creator of Narnia, C.S. Lewis, proclaims that "We read to know that we are not alone."

Literature 12 takes students through the major works of English Literature, from the Anglo Saxon warrior epics, through the glory of Renaissance poetry and plays, to the modernist search for meaning and purpose.

The study of such literature provides a solid and thoughtful foundation for all further studies in the Humanities, while also giving us a framework to discuss the themes that are common to all human life. This class includes critical analysis, creative writing and a great deal of discussion. Each year students discover that, as Wodehouse says, "There is no surer foundation for a beautiful friendship than a mutual taste in literature."

Open to Grade 11 and 12 students. Grade 11 students should be aware that this is a senior elective with Grade 12 curriculum learning outcomes and expectations. This course is accepted at most colleges and universities as an academic credit suitable for post-secondary entrance.

WRITING 12 (MWR--12)

Have you always wished to write a novel? Do you scribble poems in your free time? Do you have dreams of being a journalist or blogger? Have you about script fantasized selling a Hollywood? Writing 12 will strengthen the writing you wish to do in a flexible delivery format. This course is both a survey and independent directed study. If you want to focus on one type of writing, you may do so in this course. If you wish to explore many types of writing from short fiction and journalism to memoirs and poetry, this course will introduce you to all of this. This course runs in collaboration with Richmond Virtual School and takes place after regular school hours in a semestered system. The primary focus is on creative experimentation within a variety of styles and through the genres of short fiction, poetry, autobiography, children's fiction, travel literature and journalism. Students will explore both themselves and their world through the creative process of writing and the thrill publication. Enjoyment, appreciation, sharing, and imagination are the key elements of this course.

This course is accepted at some colleges and universities as a credit suitable for some programs. Check with your counsellor for details.



THE FRENCH IMMERSION PROGRAMME

McMath is proud to offer its French Immersion Program since 2004. The French Immersion Team offers a strong academic and extracurricular programme that suits its diverse student needs.

Four subjects are offered in the French Immersion Programme at McMath: Social Studies, Science, P.E. and French Language. In order to complete the Ministry's French Immersion requirements, students must enrol and get credits in the following courses:

Grade	Courses
8	Humanités 8 (a double block that consist
	of Sciences humaines 8 and Français
	langue 8)
	 Sciences naturelles 8
	 Éducation physique 8
9	Français langue 9
	 Sciences humaines 9
	 Sciences naturelles 9
10	Français langue 10
	 Sciences humaines 10
	 Sciences naturelles 10
11	Français langue 11
	Sciences humaines 11
12	• Français langue 12

It is strongly encouraged that students enrol in these courses at McMath to benefit from French classroom environment and dynamics.

Students who want to improve and consolidate their skills in the French Language have two options of electives in Grade 11 and 12: Français langue AP and Peer Tutoring. AP is an excellent choice for senior students who want to increase their exposure to French. The course emphasizes the use of language for active communication; it seeks to develop language skills that can be used in various activities and disciplines rather than to cover any specific body of subject matter. Peer Tutoring is available to students who would like to assist teachers in their tasks and help younger students. By working with a teacher in a French class, the student improves his skills.

The French Immersion Program also supports its students with learning needs. On an individual needs basis, students who are experiencing or have a history of learning difficulties may receive extra help in their schooling. Students may be recommended to enrol in a block of learning support in French. The FI Resource Teacher provides support in all courses the students have, may those be in English or French.

The French Immersion department also encourages its students to participate in various extracurricular activities to fully develop their linguistic and cultural skills. Each year, various fieldtrips or activities are organised (e.g. plays, shows, semaine de la Francophonie, Children's Festival, Vancouver International Film Festival). Trips or Students Exchanges are also organized in France and Québec. Students may also complete Volunteer hours in French.

HUMANITES 8

The Français langue component of this course continues with the development of the linguistic skills - speaking, listening, reading and writing begun at the elementary level. Students will be given the opportunity to be creative and exercise their critical thinking skills through different means (class discussions, personal reading). Using the writing process, students will develop their composition abilities. They will learn techniques to enable them to communicate effectively and clearly when writing in French. Grammatical points will be reviewed or introduced as an integral part of the writing and speaking processes. These skills are taught together with meta-cognitive strategies that will enable students to become stronger readers, writers and speakers. The workbook *Transmission* is used to support learning. It is to be noted that the oral/aural component of Français langue is as important as the written one.

The Sciences humaines component of this course parallels the Social Studies component of Humanities 8.

FRANÇAIS LANGUE 9 (FFRAL09) and FRANÇAIS LANGUE 10 (FFRAL10) and FRANÇAIS LANGUE 11 (FFRAL11)

This series of courses offers a progressive development of linguistic skills: speaking, listening, reading and writing. Students will be given the opportunity to be creative and exercise their critical thinking skills through different means (class discussions, personal reading...). These skills are taught together with meta-cognitive strategies that will enable students to become stronger readers, writers and speakers. Students will learn techniques to enable them to communicate effectively and clearly when writing and speaking in French. Grammatical points will be reviewed or introduced as an integral part of the course. Students also study and experience Francophone culture through various multimodal texts. The workbooks Transmission are used to support learning. It is to be noted that the oral/aural component of these courses is as important as the written one.

FRANÇAIS LANGUE 12 (FFRAL 12)

This course aims to assist students in developing advanced skills in listening, speaking, reading and writing in French, as well as to encourage students to realize their intellectual and emotional potential through a sophisticated study of literature in all genres. It is to be noted that the oral/aural component of *Français langue* is as important as the written one. This is a provincially examinable course with a weight of 40% on the speaking component.

FRANÇAIS LANGUE 12 AP (AFRL-12)

Prerequisite: Français langue 10 or French 11 Français langue AP is an excellent choice for senior students who want to increase their exposure to Course content reflects the student's interests (the arts, current events, literature, sports, etc.). The course emphasizes the use of language for active communication. The course seeks to develop language skills that can be used in various activities and disciplines rather than to cover any specific body of subject matter. In past years, students' choices include: Victor Hugo, his life, era and poems; Cinema screenplays; the cinema of Jean-Luc Godard and its critique; the writing and recording of an original song; the production of a French cuisine show; the peer tutoring of younger French students. This course is perfect for students who:

- want to increase their exposure to French;
- learn more in a French authentic context;
- struggle with French and want to be successful in the Provincial Exam;
- want to continue their studies in French.

Students must create their own learning plan and, therefore, must be autonomous learners.

SCIENCES HUMAINES 9 (FSCHF09)

The purpose of *Sciences humaines 9* is to develop students' growth as creative and knowledgeable Canadian and world citizens. The course offers students the opportunity to develop, reinforce and expand upon geographical and historical knowledge, and skills that were introduced in Humanties 8. The critical thinking skills will include information gathering from various sources; analyzing and interpreting resources; presenting and justifying your position on issues; decision making; and working cooperatively with others. The Social Studies curriculum will include current affairs, social issues, historical studies and philosophies that impacted the development of Europe and North Africa from the 16th to 18th centuries.

SCIENCES HUMAINES 10 (FSCH-10)

Sciences humaines 10 continues to build on the themes developed in earlier courses. The study of 19th Century Canadian history focuses on the building of identity Canada and the issue of responsible government. Geographic knowledge and the skills acquired from previous courses are reinforced through the study of the environment and economy of Western Canada.

SCIENCES HUMAINES 11 (FSCH-11)

Prerequisite: Sciences humaines 10

Sciences humaines 11 is the culmination of the compulsory Social Studies curriculum (K-11) and as such, deals with fundamentally important topics and issues that are basic to citizenship in Canada and the Students will examine the historical background and structure of our legal system and our federal, provincial, and municipal governments and analyze contemporary issues such as the Constitution, the future of the federal system, separatism, and land claim settlements. Another aspect of Social Studies 11 is an in-depth study of current global issues. Equally relevant is a thorough study of Canada's growth as an independent nation in the 20th Century and its role in the world community. Highlights of this section of the course are issues of war and peace (e.g. World Wars I and II, peacekeeping) and socio-economic development (e.g. the 20s, the 30s, current situation). Social Studies 11 will be of particular interest to students wishing to study Economics 12, Geography 12, History 12, and/or Law 12.

SCIENCES NATURELLES 8 (FSCF-08)

The science program has four main goals: to develop a positive attitude towards science; to equip students with necessary skills and processes; to increase students' scientific knowledge; and to encourage critical thinking. In Science 8, students will study body systems, cells, fluids, optics and water systems. In addition, students will learn the importance of lab safety. Students may purchase an optional workbook for use in this course.

SCIENCES NATURELLES 9 (FSCF-09)

Sciences naturelles 9 is a continuation of earlier pursuits of positive scientific attitudes, development of skills and processes, increasing scientific knowledge, and development of thinking abilities. Students will study atoms, elements and compounds, reproduction, electricity, and ecology. Students may purchase an optional workbook for use in this course.

SCIENCES NATURELLES 10 (FSCF-10)

Sciences naturelles 10 is a continuation of earlier pursuits of positive scientific attitudes, development of skills and processes, increasing scientific knowledge, and development of thinking abilities. Students will study chemistry (reactions and radioactivity), physics (motion), biology (energy flow and change in ecosystems), and earth science (thermal energy transfer, including plate tectonics). Students may purchase an optional workbook for use in this course.



HOME ECONOMICS 8 (MHE--08)

Home Economics 8 is part of the Applied Skills Rotation with Technology and Business Education. The Home Economics Department offers an exploratory program in both Foods/Nutrition and Clothing/Textiles. In Foods and Nutrition students will have the opportunity to learn basic nutrition, cooking techniques and food preparation. They will apply this information to a practical cooking lab situation. In Clothing and Textiles, students will have an understanding of basic construction techniques and the use of the sewing machine. This knowledge will then be applied in the creation of a simple, practical, and useful sewing project – boxer shorts. Basic supplies will be provided to students in order to meet the learning outcomes of all courses. Should a student wish to use optional materials to enhance or elaborate upon the learning outcomes, then these may be purchased directly and brought to the school.

TEXTILES - ARTS & CRAFTS 1/2/3 (YHEC-0A)/(YHEC-1A)/(YHEC-2A)

Do you like crafts? Do you like "Pinterest"? Then this course is just for you. You don't need any previous experience or craft skills. The emphasis is on personal and decorative craft skills, so if you have a talent and/or are interested in this area, be sure to sign up!

Students will be given an opportunity to experiment with special techniques and methods of fabric construction, colour application, and design. Some of the projects will be PJ's for a "Breakfast with Santa" event, Christmas crafts, a Quillow (a pillow that magically unfolds into a quilt), weaved friendship bracelets, a wheatbag puppy, recycled projects, and more. Basic supplies will be provided to students. However, should a student wish to use optional materials to enhance or elaborate upon the learning outcomes; then these may be purchased directly and brought to the school.

FOODS AND NUTRITION 1 (MFDN-10)

This course is an introductory course for students to develop an interest and enjoyment of food. This course offers students the basic principles of food preparation and cooking techniques, including quick bread, yeast bread, breakfast, lunch, dinner, desserts, and seasonal baking, such as Halloween cookies, Holiday cookies, Valentine's Day cookies, and Easter bread. Moreover, students will have an opportunity to promote healthy food choices by using Canada's Food Guide as a resource. As a

result, basic and practical skills are developed and enable students to continue on by having a strong foundation into senior level foods courses.

FOODS AND NUTRITION 2/3 (MFDN-11/MFDN-12)

It is mandatory to take Foods 1 before being accepted into Foods II & III.

Food II /III is the continuation of preparation techniques and nutritional knowledge acquired in the Food Studies I (FDN 9/10) course. The course is designed for students who have a keen interest in food preparation, and are ready to practice advanced techniques. Students will have the opportunity to prepare a variety of meals while leaning more about nutrition, as well as learn about foods from other cultures. Baking for special occasions of the year, such as Halloween and Christmas, include Fondant Cake Decorating, Gingerbread Houses, and Valentine's Day.

TEXTILES 1 (MTXT-10)

This course is designed for students with little or no sewing background. It covers the use of a sewing machine, the basic principles of clothing construction and simple pattern alterations as well as the introduction to the serger. The students will sew three garments using easy to handle woven fabrics: a skirt/pants, unlined jacket, and a garment of their own choice. A recycling project will be introduced by reforming old clothes to something unique. They also learn how to select clothes that are more becoming and suitable to their lifestyle. Basic supplies will be provided to students in order to meet the learning outcomes of all courses. Should a student wish to use optional materials to enhance or elaborate upon the learning outcomes, then these may be purchased directly and brought to the school.

TEXTILES 2 (MTXT-11)

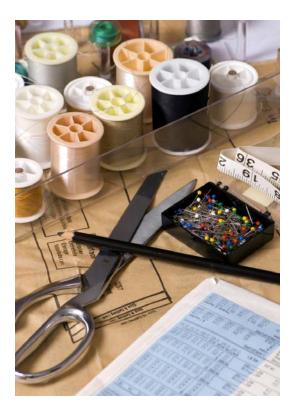
It is strongly recommended that students have previous Textiles experience. This course develops individual expression in clothing selection, and covers advanced principles of pattern alterations, clothing construction and a fabric study unit. The students will work toward a co-ordinate wardrobe by constructing garments and accessories of a complex and challenging level. They will gain more confidence in using the serger as well as the conventional sewing machine. Some of the projects for this year will include: a lined skirt/pants, a lined jacket and a garment of their own choice. Reforming, alteration techniques will be applied throughout the course. Basic supplies will be provided to students in order to meet the learning outcomes of all courses. Should a student wish to use optional materials to enhance or elaborate upon the learning outcomes, then these may be purchased directly and brought to the school.

TEXTILES 3 (MTXT-12)

Prerequisite: Textiles II

It is strongly recommended that students have previous Textiles experience. This course is designed for those students who would like to gain further knowledge and skills relating to clothing and textiles. The students are expected to use advanced techniques and technologies to produce textile items.

This is a project-oriented course, which enables the students to create garments of their choice based on the learning outcomes. Pattern designing and drafting techniques will be introduced. Some of the projects for this year will include: a designed skirt/pants, a tailored jacket or a graduation or evening dress and a garment of their choice. Basic supplies will be provided to students in order to meet the learning outcomes of all courses. Should a student wish to use optional materials to enhance or elaborate upon the learning outcomes, then these may be purchased directly and brought to the school.



If you have prior experience in the language(s) you have chosen, you must see the teacher to ensure placement in the correct level.

<u>French</u>: If you were an immersion student and want to switch to core French, see Ms. G. Simonson before choosing grade level.

FRENCH 8 (MFR--8)

Using the "Communi-quête 1" program, this course focuses on the development of communication skills. Students are taught various strategies to make them more comfortable and enjoy being in a language classroom. The students will experience a variety of activities which stress oral skills, cooperation and a willingness to participate in class activities. It is highly recommended that students purchase the workbook which will be used in this course. Copies will be available for students to borrow, but not write in, if the choice is made not to purchase a workbook.

FRENCH 9 (MFR--9)

Prerequisite: French 8 or Grade 7 Immersion

Using "Communi-quête 2", this course uses the skills acquired in French 8 to build further confidence and competence in the language. Active participation is of prime importance. More emphasis is given to written expression, although oral skills are still the focus of this course. It is highly recommended that students purchase the workbook which will be used in this course. Copies will be available for students to borrow, but not write in, if the choice is made not to purchase a workbook.

FRENCH 10 (MFR--10)

<u>Prerequisite</u>: French 9 or teacher's permission
Using "Communi-quête 3", this course places an
equal emphasis on oral and written skills. Students
will be encouraged to express themselves both orally
and in written form in the past, present and future.
Oral presentations and written projects will provide
a fairly complex, practical level of French as
communication. It is highly recommended that
students purchase the workbook which will be used
in this course. Copies will be available for students
to borrow, but not write in, if the choice is made not
to purchase a workbook.

FRENCH 11 (MFR--11)

<u>Prerequisite</u>: French 10 or teacher's permission This course uses "Bien Dit 3" as the textbook. It incorporates the four main language skills: listening, speaking, reading and writing with the emphasis on communication, although writing skills are of prime importance at this level. Successful completion of French 11 satisfies the second language requirement for university entrance. It is highly recommended that students purchase the workbook which will be used in this course. Copies will be available for students to borrow, but not write in, if the choice is made not to purchase a workbook.

FRENCH 12 (MFR--12)

Prerequisite: French 11 or teacher's permission Using "Bien Dit 3", as well as numerous authentic documents, French 12 students continue to improve their communication skills through the study and practice of a variety of thematic units. At this level, greater emphasis will be placed on reading and writing as students are presented with a selection of literature. It is highly recommended that students purchase the workbook which will be used in this course. However, copies will be available for students to borrow, but not write in, if the choice is made not to purchase a workbook.

FRANÇAIS LANGUE 12 AP (AFRL-12)

Prerequisite: Français langue 10 or French 11 Français langue AP is an excellent choice for senior students who want to increase their exposure to Course content reflects the student's interests (the arts, current events, literature, sports, etc.). The course emphasizes the use of language for active communication. The course seeks to develop language skills that can be used in various activities and disciplines rather than to cover any specific body of subject matter. In past years, students' choices include: Victor Hugo, his life, era and poems; Cinema screenplays; the cinema of Jean-Luc Godard and its critique: the writing and recording of an original song; the production of a French cuisine show; the peer tutoring of younger French students. This course is perfect for students who:

- want to increase their exposure to French;
- learn more in a French authentic context;
- struggle with French and want to be successful in the Provincial Exam;
- want to continue their studies in French.

The student must create his own learning plan and, therefore, must be an autonomous learner.

If you have prior experience in Japanese, see Ms. Ho before choosing grade level.

JAPANESE 9 (MJA--9)

Japanese 9 is an introductory course designed for students who have never taken Japanese before. Students will learn how to initiate and maintain short conversations orally and to write simple paragraphs using hiragana (phonetic scripts). They are also expected to demonstrate knowledge of basic concepts and terms that characterize Japanese culture and society. A workbook is used in the course. It is highly recommended that students purchase the workbook. However, copies will be available for students to borrow, but not write in, if the choice is made not to purchase a workbook.

JAPANESE 10 (MJA--10)

Prerequisite: Japanese 9 or teacher's permission Students are expected to continue to participate orally in a limited number of familiar situations and to write short paragraphs using hiragana and katakana (phonetic scripts). They are also required to demonstrate a deeper understanding of Japanese culture and society. A workbook is used in the course. It is highly recommended that students purchase the workbook. However, copies will be available for students to borrow, but not write in, if the choice is made not to purchase a workbook.

INTRODUCTORY JAPANESE 11 (MBJA-11)

Introductory Japanese 11 is designed as an accelerated introduction to Japanese. Emphasis is on practical everyday uses of the Japanese language. Students are expected to achieve the same learning outcomes specified under Japanese 9 and 10. A workbook is used in the course. It is highly recommended that students purchase the workbook. However, copies will be available for students to borrow, but not write in, if the choice is made not to purchase a workbook.

JAPANESE 11 (MJA--11)

Prerequisite: Japanese 10 or teacher's permission Japanese 11 will be accepted as a second language university requirement. Students are expected to interact in a variety of communicative situations and to write compositions using hiragana, katakana and kanji. Approximately 100 kanji will be introduced for writing and reading. Students are also required to employ and explore various manners that characterize Japanese culture and society. A workbook is used in the course. It is highly recommended that students purchase the workbook. However, copies will be available for students to borrow, but not write in, if the choice is made not to purchase a workbook.

JAPANESE 12 (MJA--12)

Prerequisite: Japanese 11 or teacher's permission Students are expected to carry on more complex conversations and to write compositions using prescribed kanji and complicated sentence structures. Some simple forms of Japanese literature such as haiku, fairy tales and short stories will be introduced for further understanding of Japanese culture and society. Approximately 120 kanji will be actively used for writing and reading. A workbook is used in the course. It is highly recommended that students purchase the workbook. However, copies will be available for students to borrow, but not write in, if the choice is made not to purchase a workbook.

If you have prior experience in Mandarin, see Ms. Sun before choosing grade level.

MANDARIN 9 (MMAN-09)

Prerequisite: nil

This introductory course is intended for students who have little spoken or written knowledge of Chinese. The focus of the course will be on the pinyin Romanization system of pronunciation, simple everyday conversations and a core of common expressions. In writing, students will be introduced to the eight basic strokes and a selection of characters related to everyday expressions. In conjunction with the language elements, students will learn some aspects of Chinese culture and experience some creative works in Chinese. Whenever possible, field trips will be arranged to provide students with first-hand experiences in Chinese culture. The outcomes of the course will conform to those established in the Mandarin I.R.P. A workbook is used in the course. It is highly recommended that students purchase the workbook. However, copies will be available for students to borrow, but not write in, if the choice is made not to purchase a workbook.

MANDARIN 10 (MMAN-10)

<u>Prerequisite</u>: Man 9 or placement test to be arranged with teacher

In this follow-up course to Mandarin 9, students are expected to consolidate and expand what they have previously learned. The emphasis of the course will continue to be on communicative skills and the proficient use of the pinyin romanization system of pronunciation. In speaking, students will be introduced to a greater repertoire of common expressions and everyday conversations. In writing,

students will be exposed to a larger selection of Chinese characters and sentence structures. The study in Chinese culture will continue and students will be introduced to a larger selection of creative works in Chinese. The learning outcomes of the course will conform to those established in the Mandarin I.R.P.

MANDARIN 11 (MMAN-11)

Prerequisite: Man 10 or teacher's permission

Mandarin 11 is accepted as a second language requirement by universities in BC. The focus of this course will be on students' increasing ability to communicate effectively in Mandarin so that they can take advantage of available academic, vocational, and leisure opportunities. The course will continue to build on the skills introduced in Mandarin 9 and Mandarin 10 with students' increasing exposure to Chinese language and culture. The learning outcomes of the course will conform to those established in the Mandarin I.R.P.

MANDARIN 12 (MMAN-12)

<u>Prerequisite</u>: Man 11 (or successfully challenged Mandarin 11)

Mandarin 12 is designed for students who have successfully completed Mandarin 11. This course is organized according to the IRP Curriculum Organizers. The students will be expected to carry on more complex conversations and compositions.

AP CHINESE LANGUAGE AND CULTURE 12 (ACLC-12)

<u>Co-requisite</u>: Mandarin 12 or a successful challenge of Mandarin 12.

This course is designed for students who have successfully completed Mandarin 11 or have a very high proficiency in reading, writing and speaking Mandarin. The course is built upon a variety of topics sharing a common connection to Chinese language and culture. Students may receive AP course credit by successfully completing all learning outcomes and may receive university credit if they score well on the AP Exam.

If you have prior experience in Spanish, see Sra. G. Simonson before choosing grade level.

SPANISH 9 (MSP--9)

This beginners' course is an introduction to the basic concepts of Spanish. This course will stress listening and speaking skills; however, reading and writing skills will not be sacrificed. Interesting themes will provide students with points of departure for

discussion and development. Students will become acquainted with some aspects of Latin American cultural life as well as the geography of Latin America. A workbook is used in the course. It is highly recommended that students purchase the workbook. Copies will be available for students to borrow, but not write in, if the choice is made not to purchase a workbook.

Note: Spanish 9 is not recommended for students who have failed to pass French 8.

SPANISH 10 (MSP--10)

Prerequisite: Spanish 9 or teacher permission

This course is a continuation of Spanish 9. Through a communicative approach to language learning, students will build upon the knowledge gained in Spanish 9, and will continue to improve both oral and written skills. Along with the development of language skills, cultural aspects of Latin America and Spain will be examined. A workbook is used in the course. It is highly recommended that students purchase the workbook, if not purchased for Spanish 9. Copies will be available for students to borrow, but not write in, if the choice is made not to purchase a workbook.

SPANISH 11 (MSP--11)

Prerequisite: Spanish 10 or teacher permission

In Spanish 11, students continue to increase their ability to communicate in oral and written Spanish in the past, present and future tenses. The emphasis at this level is on reading and writing skills. Successful completion of Spanish 11 satisfies the second language requirement for university entrance. A workbook is used in the course. It is highly recommended that students purchase the workbook. Copies will be available for students to borrow, but not write in, if the choice is made not to purchase a workbook.

SPANISH 12 (MSP--12)

Prerequisite: Spanish 11

This is an advanced course in the study of Spanish language and culture. With a continued emphasis on reading and writing, students will continue to build on their listening and speaking skills through a variety of communicative activities. A workbook is used in the course. It is highly recommended that students purchase the workbook, if not already purchased for Spanish 11. Copies will be available for students to borrow, but not write in, if the choice is made not to purchase a workbook.

JUNIOR LEADERSHIP 10/11 (MHS--1A)

Do you want to get INVOLVED and MAKE A DIFFERENCE in yourself and for your community? Then JUNIOR LEADERSHIP is the course for you!!! This course challenges students to develop and reflect upon leadership skills and strategies through a variety of theoretical and practical opportunities. Students will be challenged through the study and exploration of topics that include:

- leadership styles and principles
- personal values and goal setting
- organizational skills
- time-management
- event planning
- marketing and promotion
- communication skills
- critical thinking
- creative problem-solving
- goal-setting
- stress management
- team-building and group dynamics

Students will be given the opportunity to select and develop leadership topics and events of interest to them. For the practical component of the course, students are expected to take a highly interactive approach, engaging in a variety of school and community-based events and activities. These numerous "hands-on" voluntary experiences will enhance your RESUME and provide evidence to support your GRADUATION TRANSITIONS Program.

Please Note: Due to the popularity of this course, priority will be given to Grade 11 applicants. However, Grade 10 students will definitely be considered.

GET INVOLVED because ~ Together WE Learn, Together We LEAD.



SENIOR LEADERSHIP 12 (MHS--2A)

This highly participatory and energetic program will interest students who wish to further develop and practice their leadership skills and who wish to explore careers related to one of the largest growing sectors of BC's economy: Human Services. Students will enhance their leadership potential by gaining practical insights and skills related to careers in the areas of education, social services, hospitality & tourism and leisure services. This interactive and practical course will cover topics such as applying for awards, scholarships, completing bursaries, applications, conflict resolution secondary strategies, establishing and achieving goals, time and stress management, building relationships, event organization, marketing/promotion skills, effective communication and enhancing lifelong leadership.

Students can also elect to become certified in:

- "Serving It Right" (a Responsible Beverage Service Program)
- "St. Johns Ambulance First Aid" (This comprehensive two-day certification provides basic first aid knowledge, CPR Level C and AED (Automated External Defibrillation) training.
- "Food Safe Level One" (a highly recognized certification in the food and beverage industry)

Cont'd on next page...

These certifications combined with several "hands-on" volunteer experiences will add another dimension to your RESUME and provide evidence to support your GRADUATION TRANSITIONS Program. Teacher support and expertise will be provided that will also assist in preparing you for your Grade 12 Grad Transition presentation and interview in May 2018. Possible HANDS-ON **REAL-LIFE** volunteer opportunities in 2017-2018 may include: BC Student Leadership Conference, Terry Fox Marathon of Hope, Richmond Addiction Services, WE Day, Dixon Craft Fair, CHIMO Crisis Services: Stepping Out Program, Richmond School Board Ambassadors, Windows of Hope, Christmas in Steveston, Autism Speaks Walk, City of Richmond Public Works Open House, Richmond Sports Awards, Good Shepherd Street Ministry, Richmond Youth Services Association, Heart and Stroke Foundation, various Volunteer Richmond opportunities, Steveston Community Center events/activities, etc. and numerous activities hosted at McMath. These diverse volunteer opportunities will provide students with a chance to explore and practice skills directly related to the area of Human Services.





Students interested in the **McMath Peer Tutoring** course must complete an application and be matched with a teacher sponsor.

The following critieria is used for selection:

- One Peer Tutor Block per Gr. 12 Student
- Excellent Management and Organizational Skills
- Excellent Record of Attendance
- Demonstrates Initiative
- Excellent Record of Punctuality
- Positive Relationship with PT Teacher Sponsor
- Knowledge of Subject Area
- Able to Work with Limited Supervision
- Respect for Confidentiality
- Reliable, Responsible, Confident, Mature Student
- Works Extremely Well with Peers & Younger Students

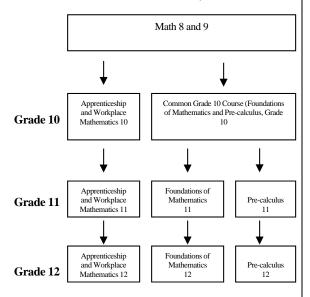
Peer tutoring can benefit students by:

- Increasing individual attention in the classroom
- Influence of a positive role model
- Gains in self-esteem and self-confidence
- Improving study habits
- Improving grades

Peer tutoring can benefit teachers by:

- Allowing more individualized instruction in the classroom
- Helping with students who are struggling with course content, disabled learners, and/or students who missed classes
- Role model to younger students
- Increasing the positive attitude in the classroom

Overview of Mathematics Pathways



MATHEMATICS 8 (MMA--8)

This mathematics course is designed to develop numeracy skills by combining mathematical knowledge, communication skills, problem solving, connecting ideas, reasoning, mental math, estimation, visualization, and the use of technology. Students will construct their own meaning out of mathematics, understand math in meaningful contexts, and learn to move from concrete to abstract ideas by linking concrete, pictorial, and symbolic concepts.

MATHEMATICS 8/9 (MMA-09-H)

This course is designed for students with exceptional abilities in both core elementary school topics and problem solving, and a strong interest & work ethic in mathematics. This accelerated course covers the Math 8 and Math 9 Curricula in one year, and focuses on the same math skills & processes as the regular Math 8 & Math 9 courses (see the write ups for these in this course planning booklet for more details). A student wishing to be selected for this course must write the course entrance exam in April (specific date to be announced) and have his/her grade seven teacher fill out the confidential Course Recommendation Form and mail it to McMath Secondary. Students will be chosen on the basis of their performance on BOTH the core math skill & problem solving portions of the entrance exam as well as based on their teacher recommendation. Students achieving a minimum of a high B in this course at the end of the year will proceed to one of the math 10 courses the following year. Students achieving below a B will be assigned a grade and credit for math 8, and will be registered in Math 9 the following year to develop a more solid foundation of math skills prior to any math 10 course.

MATHEMATICS 9 (MMA--9)

Prerequisite: Mathematics 8

This mathematics program continues to develop the math concepts and thinking skills from the grade eight curriculum. Students will hear and provide explanations, draw to represent their thinking, engage in experiences with concrete materials, visualize, and discuss their thinking with others in order to create deeper understanding. Students will learn to be investigative thinkers, and will build perseverance through solving challenging problems.

APPRENTICESHIP & WORKPLACE MATHEMATICS 10 (WAWM-10)

Prerequisite: Mathematics 9

This course 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. The course will concentrate on algebra, geometry, measurement, number sense with practical applications, and trigonometry, and will continue to focus on the mathematical processes learned in Math 8 and 9. Students with a credit for Apprenticeship & Workplace Mathematics 10 are eligible to take Apprenticeship & Workplace Mathematics 11.

*Students and parents are encouraged to research the admission requirements for post-secondary programs as they vary by institution and by year.

FOUNDATIONS OF MATHEMATICS & PRECALCULUS 10 (MFMP-10)

Prerequisite: Mathematics 9

This course is designed to provide students with the mathematical understandings and critical thinking skills identified for post secondary studies in both the arts and the sciences. The course will concentrate on algebra, number theory and operations, relations and functions, trigonometry, measurement, and logical reasoning, and will continue to focus on the mathematical processes learned in Math 8 and 9. Students with a credit for Foundations of Mathematics 10 are eligible to take Foundations of Mathematics 11 or Pre-Calculus 11. *Students and parents are encouraged to research the admission requirements for post-secondary programs as they vary by institution and by year.

APPRENTICESHIP & WORKPLACE MATHEMATICS 11 (MAWM-11)

<u>Prerequisite</u>: Apprenticeship & Workplace Mathematics 10

This course is a continuation of the Apprenticeship & Workplace 10 curriculum, and is designed to give students the necessary math skills for the majority of post-secondary trades or for direct entry into the workforce. Topics covered include Measurement, Geometry, Compound Interest, Financial Math & Budgeting, Graphing & Algebra, Numerical Reasoning, and Math Games. Students with a credit for this course are eligible to take Apprenticeship & Workplace Mathematics 12 the following year, if they so choose. This course meets graduation requirements, but does not lead straight to university entrance.

*Students and parents are encouraged to research the admission requirements for post-secondary programs, as they vary by institution and year.

FOUNDATIONS OF MATHEMATICS 11 (MFOM-11)

Prerequisite: Foundations & Pre-Calculus Math 10 This course is based on many of the core skills learned in Foundations & Pre-Calculus Math 10, and is designed for students interested in the Social Sciences, Economics, Arts, Fine Arts, and other nonscientific/mathematical post secondary disciplines. The course contains significantly fewer theoretical math topics than Pre-Calculus 11. The focus is on understanding the course content in depth and developing communication skills mathematics. Topics covered in Foundations 11 include Measurement, Geometry, Statistics, Inductive & Deductive Reasoning, Math Games, Graphing Functions, and a history of math Research Project. Students with a credit for this course are eligible to take Foundations of Mathematics 12 the following year, if they so choose. This course meets graduation requirements and leads students towards some university entrance programs.

*Students and parents are encouraged to research the admission requirements for post-secondary programs, as they vary by institution and year.

PRE-CALCULUS MATHEMATICS 11 (MPREC-11)

Prerequisite: Foundations & Pre-Calculus Math 10 This course requires a solid understanding of the skills from Foundations & Pre-Calculus Math 10 for students to be successful, and is designed for people interested in applying for post-secondary programs in Science, Applied Science, Commerce, and Math. The course focuses on theoretical math topics that

prepare students for Calculus. These topics include Absolute Value & Quadratic Functions, Radicals, Systems of Linear Inequalities & Quadratic Equations, Sine & Cosine Laws, Cubic & Quartic Factoring, Arithmetic & Geometric Sequences & Series, Reciprocal Functions, and Solving Quadratic Equations. Students with a credit for this course are eligible to take Pre-Calculus 12 and Calculus 12 the following year. This course meets graduation requirements and leads students towards some university entrance requirements.

*Students and parents are encouraged to research the admission requirements for post-secondary programs, as they vary by institution and year.

HONOURS PRE-CALCULUS MATHEMATICS 11 (MPREC11-H)

<u>Prerequisite</u>: at least 80% in Foundations & Pre-Calculus Math 10 with a recommendation from the student's math 10 teacher.

This course is designed for motivated students who have demonstrated a strong mathematical background and interest and who want to be presented with challenging material. The course content covers that of the regular Pre-Calculus Math 11 course (see above) except that topics will be covered at a more enriched level and more accelerated rate. Additionally, students will be introduced to some topics from Pre-Calculus 12 and Calculus 12. Students write the same Midyear and Final Exams as the regular Pre-Calculus 11 classes so the students in the Honours class should have no difficulty maintaining a competitive grade point average. Students with a credit for this course are eligible to take Pre-Calculus 12 and Calculus 12 the following year. This course meets graduation requirements and leads students towards some university entrance programs.

*Students and parents are encouraged to research the admission requirements for post-secondary programs, as they vary by institution and year.

<u>APPRENTICESHIP & WORKPLACE</u> <u>MATHEMATICS 12 (MAWM-12)</u>

<u>Prerequisite</u>: Apprenticeship & Workplace Mathematics 11

This course is a continuation of the Apprenticeship & Workplace 11 curriculum, and is designed to give students the necessary math skills for the majority of post-secondary trades or for direct entry into the workforce. Topics covered include Measurement, Geometry, Financial Math & Budgeting, Graphing, Statistics & Algebra, Numerical Reasoning, Probability, and Math Games. This course meets graduation requirements, but does not typically lead straight to university entrance.

*Students and parents are encouraged to research the admission requirements for post-secondary programs, as they vary by institution and year.

<u>FOUNDATIONS OF MATHEMATICS 12</u> (MFOM-12)

Prerequisite: Foundations of Math 11

This course is based on many of the core skills learned in Foundations of Math 11, and is designed for students interested in the Social Sciences, Economics, Arts, Fine Arts, and other nonscientific/mathematical post secondary disciplines. The course contains significantly fewer theoretical math topics than Pre-Calculus 12. The focus is on understanding the course content in depth and developing communication skills around mathematics. Topics covered in Foundations 12 include Financial Mathematics, Logical Reasoning, Probability, Polynomials, **Exponents** Logarithms, Sinusoidal Functions, and current events Research Project(s). This course meets graduation requirements and leads students towards some university entrance programs.

*Students and parents are encouraged to research the admission requirements for post-secondary programs, as they vary by institution and year.

PRE-CALCULUS MATHEMATICS 12 (MPREC12)

Prerequisite: Pre-Calculus Math 11

This course requires a solid understanding of the skills from Pre-Calculus Math 11 for students to be successful, and is designed for people interested in applying for post-secondary programs in Science, Applied Science, Commerce, and Math. The course focuses on theoretical math topics that prepare students for the Calculus 12 course. These topics include but are not limited to: Trigonometry (functions and identities), Functions, Transformations, Logarithms, Polynomials, Radical Functions, Rational Functions, and Combinatorics.

Students with a credit for this course are eligible to take Calculus 12 concurrently. This course meets graduation requirements and leads students towards some university entrance requirements. *Students and parents are encouraged to research the admission requirements for post-secondary

AP CALCULUS 12 (ACAL-12)

Co-Requisite or Prerequisite: Pre-Calculus Mathematics 12 Recommended: 85% or better in Pre-Calculus Math 11 or Honours Pre-Calculus Math 11 in addition to recommendation from Math 11 teacher.

programs, as they vary by institution and year.

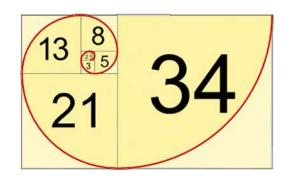
This course follows the College Board Advanced Placement curriculum and is the equivalent of a first-year university calculus course. University results show that students who have taken calculus 12 do significantly better in first-year university where calculus is a required course for many programs such as sciences, mathematics, engineering and commerce. In May, students may write the Advanced Placement Exam set by the College Board. Students obtaining a 4 or 5 on the exam will have the option of being exempted from at least one first-year calculus course at many Canadian and U.S. universities. A graphic calculator is required for this course.

Note: Students wishing to write the AP Examination in May must pay a fee.

COMBINED PRE-CALCULUS & AP CALCULUS 12 (MPREC12-AP)

<u>Prerequisite</u>: Pre-Calculus 11 with a recommended grade of 85% or better

This course is for students who wish to take both Pre-Calculus 12 and AP Calculus 12 in their grade 12 year. The course will have a semester format in which students will take a double block both day 1 and day 2. A majority of the Pre-Calculus 12 content will be taught during the first half of the year and the AP Calculus 12 material in the second half. Only students with a strong understanding of mathematics are recommended to take this course because of the accelerated pace and intensity.



BAND 8 (MMU--08)

Concert Band 8 welcomes all students who play or wish to learn how to play a musical instrument. The objective of this course is to have students develop and improve playing skills on concert band instruments. Students will play in a variety of musical styles and perform concerts throughout the year. Regular home practice and attendance at rehearsals and concerts are considered part of this course.

CHOIR 8 (MCC 08)

This course is open to any students who wish to sing. Various musical styles will be explored including classical, pop, jazz, and folk, to name a few. Students will learn vocal techniques and the enjoyment of singing together will be promoted. Attendance at concerts and rehearsals is considered a part of the course.

BAND 9 (MMU--9) BAND 10 (MMCB-10)

(Open to all grade 9 and 10 students)

Concert Band 9 and 10 welcomes all students who play or wish to learn how to play a musical instrument. Students will develop and improve playing skills on concert band instruments while studying music in a variety of styles. Playing skills as well as knowledge of music theory and history will be emphasized. Regular home practice and attendance at rehearsals and concerts are considered part of this course.

BAND 11 (MIMCB11) BAND 12 (MIMCB12)

This class will join with the Band 10 students to create a Senior Concert Band. Students should have completed at least two years of previous instruction. Those with less experience should consult with the instructor to ensure that they will gain a positive experience from this senior level ensemble. A wide variety of repertoire will be introduced in order to enable students to reach their full potential as musicians. Attendance at concerts and rehearsals is considered a part of the course.

JAZZ BAND 9 (MJB-9) JAZZ BAND 10 (MMJB-10)

This is a course for students who have previous band experience. As well as traditional band instruments, piano, bass, electric guitar, and electric or acoustic bass are required. Students should be prepared to audition for this course. Students will learn to interpret jazz literature and improvise. Regular home practice and attendance at concerts and rehearsals are considered a part of the course.

JAZZ BAND 11 (MIMJB11) JAZZ BAND 12 (MIMJB12)

This advanced Jazz Band course is designed to expand on the basic instrumental jazz concepts introduced in the Grade 9/10 Jazz Band course. More Jazz styles will be studied as well as a repertoire of Jazz standards. A greater depth of improvisation skills will be introduced along with various advanced Jazz techniques needed to perform this creative art. Attendance at concerts and rehearsals is considered a part of the course.

CHOIR 9/10 (MMCC10) CHOIR 11 (MCMCC11) CHOIR 12 (MCMCC12)

This course is open to any students who wish to sing. Various musical styles will be explored including classical, pop, jazz, and folk, to name a few. This course provides opportunities for students to sing in a large ensemble. Previous music training is not essential, but choral experience is an asset. Students will develop skills in vocal production, note and rhythm reading, and listening. Attendance at concerts and rehearsals is considered a part of the course.

GUITAR 10 (MMGR-10) GUITAR 11 (MIMG-11) GUITAR 12 (MIMG-12)

This is a multi-level course in guitar instruction. The course is designed to teach beginning skills as well as to expand techniques learned previously. Included in the course will be a basic knowledge of music theory, note reading, rhythm, cord structure, and improvisation. Use of acoustic guitars is intended and one can be provided for each student. Musical styles vary from folk to pop rock to blues. Student performance at concerts is a possibility.

MUSIC COMPOSITION 11 (MMCT-11) MUSIC COMPOSITION 12 (MMCT-12)

This course will give students an opportunity to study music composition techniques and music technology. Macintosh computers will be used to assist students in their composition, editing, arranging, and music printing skills. Students who successfully fulfill the requirements of this course will be well prepared to continue their studies at a post secondary institution.

MUSICAL THEATRE 10 (MIS 0A)

Recommended: A class in theatre or music

This course has been developed to support, encourage and create lifelong passion for the Performing Arts through Musical Theatre. Students will develop performance skills, learn the value of developing community and build confidence as they gain knowledge, skills, and attitudes in the three strands of Musical Theatre: Vocal Production, Movement, and Acting through units in Building a Musical Theatre Company, Pre-Production/Rehearsal, Production, and Post-Production/Closing the Musical Theatre Company. Developing basic skills of musical theatre by being a member.

MUSICAL THEATRE 11 (MIS 1A)

<u>Prerequisite</u>: Musical Theatre 10 and/or a course in Theatre/Music or teacher permission

This course has been developed to build on previous skills in Musical Theatre. Students will further develop performance skills, learn the value of developing community and build confidence as they continue to gain knowledge, skills, and attitudes in the three strands of Musical Theatre: Vocal Production, Movement, and Acting through units in Building a Musical Theatre Company/Opening a Musical Theatre Company, Pre-Production/Rehearsal, Production, and Post-Production/Closing the Musical Theatre Company while building on skills and developing leadership and mentoring.

MUSICAL THEATRE 12 (MIS 2A)

<u>Prerequisite</u>: Musical Theatre 11 and/or a course in Theatre/Music or teacher permission

This course has been developed to encourage and create lifelong passion for the Performing Arts through Musical Theatre. Students will perfect performance skills, the value of developing community and build confidence as they Students will perfect performance skills, the value of developing community and build confidence as they perfect their knowledge, skills, and attitudes in the three strands of Musical Theatre: Vocal Production, Movement, and Acting through units in Building a Musical Theatre Company/Opening a Musical Theatre Company, Pre-Production/Rehearsal, Production, and Post-Production/Closing the Musical Theatre Company while continuing to focus on the basic skills of musical theatre by being a member and taking on leadership and mentoring roles within the theatre company

PHYSICAL EDUCATION 8 (MPE--8)

The goal of this course is to provide students with the knowledge, understanding and skills to maintain physical health throughout their lives. Our aim is to have students appreciate the importance of physical well-being and its relationship to the intellectual, mental, and social health of all individuals. Students will actively participate in a variety of units including: soccer, badminton, weight training, dance, health & careers, minor games, basketball, football, ultimate, and softball. Students will experience multiple ways to understand and improve their fitness. Students will be asked to complete 5 service hours throughout the school year.

PHYSICAL EDUCATION 9 (MPE--9)

The goal of this course is to provide students with the knowledge, understanding and skills to maintain physical health throughout their lives. Our aim is to have students appreciate the importance of physical well-being and its relationship to the intellectual, mental, and social health of all individuals. Students will actively participate in a variety of units including: lacrosse, pickleball, weight training, dance, health & careers, minor games, volleyball, rugby, ultimate, and softball. Students will experience multiple ways to understand and improve their fitness. Students will be asked to complete 7 service hours throughout the school year.

PHYSICAL EDUCATION 10 (MPE—10 / MPE—10---B / MPE—10---G)

The goal of this course is to refine the knowledge, understanding and skills necessary to maintain physical health throughout students' lives. Our aim is to have students appreciate the importance of physical well-being and its relationship to the intellectual, mental and social health of all individuals. In grade 10, students will start to develop a repertoire of physical exercise and activity that they can continue into adulthood. Students will actively participate in units combining all of the activities covered in PE 8 and 9 and build on concepts learned in those grades. Students will experience multiple ways to understand and improve their fitness. Students will be asked to complete 10 service hours throughout the school year. For the 2017/18 year, students will be asked to request either Co-Ed, all-girls, or all-boys.

ACTIVE FOR LIFE 10/11/12 (YHRA-1C/2C)

Prerequisite: Physical Education 9

The focus of this course is on lifetime pursuits and introduces students to many non-traditional activities such as yoga, Pilates, cardio kickboxing, step aerobics, hip-hop dance and cycling. Some activities will be presented as mini units and others will occur only once. Other topics which will be explored are: healthy weight maintenance, and first aid. The course will include several field trips which will partially be decided by student interest and may include activities such as: cycling around Stanley Park, the Grouse Grind, water aerobics and spin classes. The purpose of the course is to enable students to experience new, recreational, lifetime activities and work toward creating a physical activity habit, suited to their lifestyle.

PHYSICAL EDUCATION 11 (MPE--11)

Prerequisite: Physical Education 10

P.E. 11 emphasizes the preparation for an active and healthy lifestyle after students leave school. Students will participate and develop skills in a variety of physical activities that have the potential for lifelong involvement. Lifetime sports and leisure activities are the major focus. The program will consist of activities which use both school and community facilities. The choice of activities will be made by individual classes from the following options: badminton, basketball, ultimate frisbee, volleyball, aerobics, ice skating, minor games, tennis and racquet sports, and weight training and many community-centered leisure activities. Students will be required to provide 15 hours of leadership and volunteer time at the school in athletics or within the community in sports or recreation related activities. Students must complete these hours in order to pass the course. PE 11 does satisfy the Applied Skills 11 credit needed for graduation.

PHYSICAL EDUCATION 10/11/12: BASKETBALL (YHRA-1B/2B)

PE 10/11/12 Basketball is a course designed to help students enhance their knowledge of the game of basketball, develop their in-game skills, and maintain a high level of physical conditioning. Students enrolled in the course must be prepared for intense physical activity, as they will improve their individual and team basketball skills through competitive drills and games in the gymnasium. Students will also be put through basketball specific strength and conditioning drills in the gymnasium and weight room. There will be a classroom element to the course where students will meet in a classroom to

watch video, go over strategy, and discuss game preparation. As an aspect of enhancing their knowledge of basketball, students will complete coaching and refereeing training and will be expected to practice this training as referees and coaches both in school and out.

This course is open to any student in grade 10, 11 or 12 but interested students must complete an application form and be accepted into the course.

Course fee: TBA

PHYSICAL EDUCATION 11/12: STRENGTH & CONDITIONING (YHRA-1A/2A)

Become your own personal trainer! Assess your level of fitness then create and implement a personalized plan to improve cardiovascular fitness and muscular strength and endurance. We will learn about concepts such as exercise physiology, training principles, sports psychology, good nutrition and injury prevention. Explore a variety of strength and conditioning activities for lifelong participation in physical activity. From recreational to elite athletes, any student would benefit from this course; however, participants should be self-motivated, able to work independently and willing to work towards their personal goals. This course may include field trips and guest presenters.

NOTE: Field trips for all senior PE courses will continue to be part of the course. Students will be required to pay for field trips that they attend.

PHYSICAL EDUCATION 12 (MPE--12)

Prerequisite: PE 11

Physical Education 12 will continue to emphasize the lifetime activities and pursuit of total wellness begun in Physical Education 11. The course seeks to develop in students the leadership and organizational skills needed to develop, organize and lead recreational and school programs at McMath. A wide array of traditional and community activities will be pursued in Physical Education 12. This exciting opportunity for students will also include a service component both in the school and in the greater community. Students will be required to provide 20 hours of leadership and volunteer time at the school in athletics or within the community in sports or recreation related activities. Students must complete these hours in order to pass the course.



You have to expect things of yourself before vou can do them.

-Michael Jordan

HEALTH & CAREER EDUCATION 8 & 9

(Note: Students will automatically be enrolled in each of these mandatory courses.)

These courses will provide students will the knowledge, skills and attitudes to assist them in making informed decisions related to their health, education, and career planning. The programs will be delivered by the student's Phys. Ed. (PE) 8 and 9 teachers as a unit of study during PE. A mark for each of these programs will be assigned at the end of a student's grade 8 and 9 school years. Topics covered will include healthy living styles, healthy relationships, safety and injury prevention, Internet safety and substance misuse prevention.

GRADUATION TRANSITIONS PROGRAM (GRADES 10-12) (MGT----)

The four-credit Graduation Transitions (GT) Program is a <u>graduation requirement</u> that is completed over a three-year period. In grade 10, students are introduced to the GT program in their PE 10 course. In grade 11, students will complete the majority of the program requirements through the direct support of their Senior Planning teacher. In grade 12, students will be further supported by one of the school administrators.

During these three years, students collect several items of evidence that demonstrate competencies in the areas of Personal Health, Community Connections and Career & Life. This program culminates with a GT presentation in the spring of grade 12 with a McMath teacher.

Support materials are provided to students in Senior Planning and on the McMath website: www.mcmath.sd38.bc.ca

SENIOR PLANNING 11 (MPLAN10) & ON-LINE OPTION. (MPLAN10RVS)

This course will deliver the content of Planning 10 to all students entering grade 11. This four-credit course required for graduation will enable students to become self-directed individuals who set goals, make thoughtful decisions, and take responsibility for pursuing their aspirations. In Senior Planning students will be provided with opportunities to:

- plan for successful learning in the Graduation Program
- explore a wide range of post-secondary education and career options
- think critically about health issues and decisions
- develop financial literacy skills related to their education and career goals, and
- begin planning for their transition beyond high school

Specifically, students will explore topics such as employability skills, workplace standards and safety, healthy living, responsible decision-making and relationships, substance misuse, road safety as well as budgeting, credit cards and banking.

In addition, as students take this course in their grade 11 year, it will provide them with the invaluable opportunity to continue to work on their Graduation Transition Plan under the direct guidance and support of their Senior Planning teacher and assist them in preparing for their presentation in grade 12.

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SCIENCE 8 (MSC--8)

The science program has four main goals: to encourage students' interest and curiosity in science; to equip students with necessary scientific skills and processes; to increase students' knowledge of the natural world; and to encourage critical thinking. In Science 8, students will study the characteristics of life, cells, the immune system, atoms, electromagnetic radiation, light, and plate tectonics. In addition, students will learn the importance of lab safety.

SCIENCE 9 (MSC--9)

Science 9 will continue to build on students' curiosity and interest in science. Students will develop and apply scientific skills and processes and will increase their knowledge about the natural world. They will also be encouraged to think critically and to look at scientific topics from different perspectives. Students will learn about lab safety, atoms, elements and compounds, reproduction, electricity, and ecology.

SCIENCE 10 (MSC--10)

Science 10 is a continuation of earlier pursuits of positive scientific attitudes, development of skills and processes, increasing scientific knowledge, and development of thinking abilities. Students will study chemistry (reactions and radioactivity), physics (motion), biology (energy flow and change in ecosystems), and earth science (thermal energy transfer, including plate tectonics). Students may purchase an optional workbook for use in this course.

SCIENCE AND TECHNOLOGY 11 (MSCT-11)

Prerequisite: Science 10

N.B. This course, upon successful completion, fulfills the science requirement for secondary school graduation; however, it does not qualify as a science Prerequisite for many university programs. Students who wish to take this course should ensure that they will meet the requirements of any post-secondary programs they are considering.

The topics and issues explored in Science and Technology 11 can be many and varied. Students will learn to distinguish between fact and opinion as they study scientific and technological topics that have a direct bearing on society, and more specifically on themselves. Topics may include such diverse subjects as human biology, environmental science and technology in the home and workplace. The specific course of studies will be announced by the instructor.

BIOLOGY, CHEMISTRY, PHYSICS

Biology 11, 12 and AP Honours, Chemistry 11, 12, and AP Honours, and Physics 11 are all focus or support courses for Career Prep Health Science and Biotechnology (see p. 16). Physics 11, 12 and AP Honours are support courses for Career Prep C.A.D.D. Biology 11, 12 and AP Enrichment are support courses for Career Prep Human Services. See section on Career Preparation at the beginning of this booklet.

BIOLOGY 11 (MBI--11)

Prerequisite: Science 10

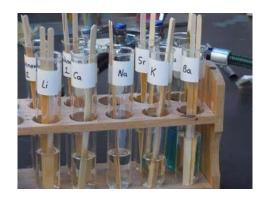
Biology 11 is an introductory course designed to give students an appreciation for the living world. It addresses a representative sample of organisms and introduces students to a variety of biological skills and scientific processes. It is also expected that the course will contribute to developing critical thinking abilities and to an understanding of scientific attitudes. Topics of study include methods and principles of biology, microbiology, botany and zoology. Laboratory work includes microscopy, investigation and classification of organisms (including dissection of various specimens). A strong background in Science 10 is recommended.

BIOLOGY 11 HONOURS (MBI 11 H)

Prerequisite: Science 10

Recommended: B or better in Science 10

This is an enrichment and acceleration opportunity in biology. Students will study the Provincial Biology 11 curriculum (many of the topics to a greater depth) and a variety of additional topics and associated laboratory experiences. Students should be well motivated and have a strong background in Science 10 and English 10. Evaluation will be based on the regular Biology 11 standards. Students planning to take Biology 12 AP Honours (with a view to university biology or related studies) must take this course.



BIOLOGY 12 (MBI--12)

Prerequisite: Biology 11

Recommended: C+ or better in Biology 11

Biology 12 is designed for students interested in studying life sciences at a post-secondary institution. The course of studies includes molecular level biology (carbohydrates, lipids, proteins and nucleic acids) and cell biology. In addition, all major human body systems (anatomy and physiology) are covered. The course is demanding and it is recommended that students have a good background in Biology 11; successful completion of Chemistry 11 would be helpful.

BIOLOGY 12: HONOURS/AP (MBI 12 AP)

Prerequisite: Biology 11 Honours

This is an enrichment and acceleration opportunity in senior biology. Students will study the Provincial Biology 12 curriculum and additional topics prescribed by the College Board. As well, students conduct extensive laboratory work (25% of time spent on labs) with an emphasis on guided inquiry. The classroom portion of the course will be evaluated in the same way as Biology 12. The A.P. standing is awarded by The College Board and is based on an examination written in May (See separate description of the Advanced Placement Program). Note: Students may choose not to write the A.P. Exam.

CHEMISTRY 11 (MCH--11)

Prerequisite: Science 10

Recommended: B or better in Science 10

Chemistry 11 is an introductory course designed to lay a good foundation for future studies in chemistry. The course emphasizes manipulation of equipment, observation of experimental phenomena, data analysis and problem solving. The following topics are studied: Chemical safety, description and classification of matter, nomenclature, mole concept and reaction stoichiometry, atomic structure, periodic table, an introduction to bonding, aqueous solutions and an introduction to organic chemistry. Additional topics may be studied at the discretion of the instructor. A scientific calculator is required. A strong background in Science 10 and Math 10 is recommended.

CHEMISTRY 11: HONOURS (MCH 11 H)

Prerequisite: Science 10

Recommended: B or better in Science 10

This is an enrichment and acceleration opportunity in chemistry. Students will study the Provincial Chemistry 11 curriculum (many of the topics to a greater depth) and a variety of additional topics and associated laboratory experiences. Students should be well motivated and have a strong background in Science 10, English 10 and Math 10. Evaluation will be based on the regular Chemistry 11 standards. Students planning to take Chemistry 12 AP Honours (with a view to university chemistry or related studies) must take this course.

CHEMISTRY 12 (MCH--12)

Prerequisite: Chemistry 11

Recommended: C+ or better in Chemistry 11

Chemistry 12 requires a solid knowledge of the principles of Chemistry 11 to investigate the following topics on a more advanced and demanding level: chemical kinetics, chemical equilibrium, solutions and solubility, acids, bases and salts and electrochemistry. The laboratory work includes qualitative and quantitative analysis. Emphasis is placed on problem solving (including a significant amount of mathematical analysis, graphing, use of exponents and logarithms - students need a scientific calculator) and on communication - description and analysis of experimental work as well as the student's understanding of chemical concepts. A strong background in Chemistry 11, Math 11 and English 11 is recommended.

CHEMISTRY 12: HONOURS/AP (MCH 12AP)

<u>Prerequisite</u>: Chemistry 11 Honours or teacher recommendation

This is an enrichment and acceleration opportunity in senior chemistry. Students will study the Provincial Chemistry 12 curriculum and additional topics prescribed by The College Board. As well, students conduct extensive laboratory work (25% of time spent on labs) with an emphasis on guided inquiry. Success in the course requires a significant amount of study outside of class time. As well, attendance at sessions outside of regular class time may be required. The classroom portion of the course will be evaluated in the same way as Chemistry 12. The A.P. standing is awarded by The College Board and is based on an examination written in May (See separate description of the Advanced Placement Program). Note: Students may choose not to write the A.P. Exam.

PHYSICS 11 (MPH--11)

Prerequisite: Science 10

Physics 11 is a survey course intended to provide insight into the scope, nature, relevance and limitations of physics. The topics include kinematics, dynamics, special relativity and energy (mechanical, heat, and nuclear). It is hoped that this course may lead to an in depth study of physics in more senior courses, but Physics 11 is primarily intended to prepare the average person to better understand the world around us. A scientific calculator is required. A strong background in Science 10 and Math 10 is highly recommended. This course is also available through Richmond Virtual School (RVS) for those who cannot fit the course into their timetables.

PHYSICS 11: HONOURS-AP 1 (MPH—11---AP1)

Prerequisite: Science 10

Recommended: B or better in Science 10 and Math

This is an enrichment and acceleration opportunity in physics. Students will study the Provincial Physics 11 curriculum and additional topics prescribed in the AP Physics 1 curriculum by The College Board. Success in the course requires a significant amount of study outside of class time. Students should be well motivated and have a strong background in Science 10, Math 10, and English 10. As well, attendance at sessions outside of regular class time may be required. One of the purposes of this course is to prepare students to write the AP Physics 1 exam in May of next year. The AP standing is awarded by The College Board and is based on this examination. Most universities will give credit for the first semester of first year university physics to students who score 65% or higher on the AP Physics 1 exam. (See separate description of the Advanced Placement Program). Note: Students may choose not to write the AP **Exam.** This course may also be available through the Richmond Virtual School as AP Physics 1.



PHYSICS 12 (MPH- -12)

Prerequisite: Physics 11

Recommended: C+ or better in Physics 11

Students who take Physics 12 often go on to further study of physics and consequently the treatment of topics is more rigorous, mathematically, than in Physics 11. The course concentrates on two basic areas of physics: mechanics and electromagnetism. The topics covered are vectors, motion in two dimensions, universal gravitation, charges, current and electromagnetism. Satisfactory completion of Mathematics 11 is strongly recommended prior to taking Physics 12. Math 12 should be taken concurrently with Physics 12. This course is also available through Richmond Virtual School (RVS) for those who cannot fit the course into their timetables.

PHYSICS 12: HONOURS-AP 2 (APPH-12)

Prerequisite: Science 10

Recommended: C+ or better in Physics 11:

Honours/AP

This is an enrichment and acceleration opportunity in senior physics. Students will study the Provincial Physics 12 curriculum and additional topics prescribed in the AP Physics 2 curriculum by The College Board. Success in the course requires a significant amount of study outside of class time. Students should be well motivated and have a strong background in Physics 11 and Pre-Calculus 11. As well, attendance at sessions outside of regular class time may be required. One of the purposes of this course is to prepare students to write the AP Physics 2 exam in May of next year. The AP standing is awarded by The College Board and is based on this examination. Most universities will give credit for the second semester of first year university physics to students who score 65% or higher on the AP Physics 2 exam. (See separate description of the Advanced Placement Program). Note: Students may choose not to write the AP Exam. This course may also be available through the Richmond Virtual School as AP Physics

It's not that I'm so smart, it's just that I stay with problems longer.

Albert Einstein

HUMANITIES 8 (MSS-08)

Humanities 8 is a study of the naturally complementary fields of Social Studies and English. There are many skills and processes common to both curricula. Students will look at the connections between history (from 7CE-1750CE), geography and current events. These discussions will be linked to the study of literature and English skills and strategies: reading, writing, speaking listening. The integration of these subjects will allow to student to understand that academic skills are transferable. The inter-disciplinary approach allows students to expand their knowledge of the world, broaden their skills and perspectives, and encourage students to become informed and educated citizens.

SOCIAL STUDIES 9 (MSS--09)

Continuing with Social Studies K-12 key curricular competencies of asking questions, gathering, interpreting, and communicating ideas, explaining connecting significance, with evidence, distinguishing continuity and change, recognizing cause and consequence, acknowledging perspective, and using ethical judgement, students will explore revolutions, colonialism, migration, nationalism, conflict, discriminatory policies (from 1750-1919CE) and Canadian geography. The goal of all social studies course is to expand students' knowledge of the world, broaden their skills and perspectives, and encourage students to become informed and educated citizens.

SOCIAL STUDIES 10 (MSS--10) "TRANSITION CURRICULUM"

Building on the skills, processes, and themes introduced and developed in earlier Socials and Humanities classes, Socials 10 may focus on the Nineteenth Century territories that became Canada during the era. Ideas and issues of responsible governance, politics, identity, society, culture, economic development, domestic and international conflict, environment, and truth and reconciliation may be examined both individually and in relationship to one another. (1919 CE-present) The goal of all social studies course is to expand students' knowledge of the world, broaden their skills and perspectives, and encourage students to become informed and educated citizens.

SOCIAL STUDIES 11 (MSS--11) "TRANSITION CURRICULUM"

Social Studies 11 is the culmination of the current compulsory Social Studies curriculum which is in effect for those graduating in 2019 and as such, deals

with fundamentally important topics and issues that are basic to citizenship in Canada and the world. Students may examine the historical background and structure of our legal system and our federal, provincial, and municipal governments. Students may also analyze contemporary issues such as the Constitution, the future of the federal system, separatism, and land claim settlements. Other areas of study may include Canada's growth as an independent nation in the 20th Century, its role in the global community including issues of war and peace, and socio-economic development. Social Studies 11 may also draw from the upcoming new SS curriculum being implemented for students graduating in 2020 and beyond..

<u>COMPARATIVE CIVILIZATIONS 12</u> (MCCN-12)

"Myth is much more important and true than history. History is just journalism and you know how reliable that is," said mythologist Joseph Campbell.

The aim of Comparative Civilizations 12 is to challenge and enrich students' awareness of the history of other cultures through comparative studies. The course will examine the nature, development, and variety of our world's cultures. Comparative studies of both ancient and modern civilizations will be introduced throughout the year. Themes such as mythology, time, and gender will be explored through the Social Sciences lenses of anthropology, philosophy, historical analyses, and aesthetic experiences. Students are expected to conduct research, complete field studies, and report their findings.



This course is open to Grade 11 and 12 students. Grade 11 students should be aware that this is a senior elective with Grade 12 curriculum learning outcomes and expectations. This course is accepted at all Colleges and some Universities in B.C. Please check with your counselor if you intend to use it as an entry qualification at university.

GEOGRAPHY 12 (MGEO-12)

Do earthquakes rock your world? Do you care about human impact on the environment? Is Iceland one of your dream destinations? If so, Geography 12 may be the course for you! Geography 12 is the study of physical, natural, and human elements of the global environment. The course examines the characteristics, processes, distributions, interactions among the physical components of the earth's surface and the influence they exert over people's activities. There are three focal areas in the course: physical and biological processes (plate tectonics, gradational processes, earthquakes, volcanoes, climate, etc.); humans and their environment (resource management, environmental issues, etc.); and the future, including global human and environmental challenges. Course work includes map interpretation, field studies, and inclass study. Currently, McMath is in the planning stages of a field trip to Iceland (pictured above) in 2018.

Open to Grade 11 and 12 students. Grade 11 students should be aware that this is a senior elective with Grade 12 curriculum learning outcomes and expectations. This course is accepted at most colleges and universities as an academic credit suitable for post-secondary entrance.



SOCIAL JUSTICE 12 (MSJ--12)

Do you care about issues in the world? Were you appalled by 2016 and its abuse of human rights in terms of race, ethnicity, poverty, genocide, women, LGBTQ and Aboriginal people? Are you concerned about globalization and the manipulation of the media? This course will be an important and rewarding use of your time at McMath.

Social justice is defined as "the full participation and inclusion of all people in society, together with the promotion and protection of their legal, civil, and human rights" (BC Ministry of Education, Social Justice 12 IRP). The aim of this course is to raise students' awareness of and increase their ability to analyze and advocate for issues of social equity and justice. Through active participation, critical analysis, and reflection, students will learn about social justice issues and work towards becoming responsible agents of change. Students will also research, develop and carry out a social action project based on self-selected topics.

Open to Grade 11 and 12 students. Grade 11 students should be aware that this is a senior elective with Grade 12 curriculum learning outcomes and expectations. This course is accepted at some colleges and universities as an academic credit suitable for post-secondary entrance.

"Those who do not remember the past are condemned to repeat it," stated philosopher George Santayana.

HISTORY 12 (MHI--12)

History 12 is an elective, survey course. The core curriculum covers events of the 20th century but an examination and discussion of key events of the early 2000s (such as 9/11 (Sept. 11, 2001) along with current events is also an important part of the course. Students will study how politics, economics, science, art, fashion, sport, technology, pop culture, and media all play a role in shaping, reflecting, and making history. Students will also develop the skills to study history objectively using a variety of primary and secondary sources.

The course is designed to broaden and deepen a student's understanding of the various forces that have shaped historical events so as to better understand current events and a student's role and opportunity as an active citizen in a multicultural, democratic society.

Open to Grade 11 and 12 students. Grade 11 students should be aware that this is a senior elective with Grade 12 curriculum learning outcomes and expectations. This course is accepted at most universities as an academic credit suitable for university entrance

ENVIRONMENTAL SUSTAINABILITY (YRNR-1A)

Open to students in grades 10-12

What are YOU doing to make the world a greener place? Environmental Sustainability 12 allows you to explore the background information about the world environmental crisis and what you can do. You will learn the concepts, skills, and attitudes needed to understand the practices and issues related to environmental sustainability. You will begin to understand climate change and the impact of humans on our natural world and the Earth's resources. You will reflect on your personal and collective impact on the environment and will select and explore an environmental focus for the course. You will take action by creating, implementing, and evaluating a sustainable project in your school or community such as a school compost or recycling program. Your goal is to diminish your ecological footprint, become more of a global citizen, and make a difference by becoming more socially responsible.

TECHNOLOGY 8 (MTE--8)

This is a mandatory survey course for grade 8's and students. All students will rotate through the three applied skills areas: Business Education, Home Economics, and Technology Education. The Technology Education component is project based and is designed to introduce students to the various Technology curriculum areas at McMath.

DESIGN & ANIMATION EXPLORATIONS

Design and Animation explorations will be of interest to many different types of students. Aspiring artists, architects, makers, and many others will find the program interesting and rewarding.

All students will have content personalized to meet their educational needs and goals. Students are introduced to design thinking through a series of challenges which explore a range of concepts and applications of the design process. Students learn about the Elements and Principles of Design, as well as the use of computer software that contribute to successful designs.

DESIGN 1 (MTED-10)

Prerequisite: None

Discover the designer in you through a series of beginner through advanced tutorials and challenges using computer software. Options include:

Architecture, Interior Design, Furniture Design, and 3D Modelling and Sculpting.

DESIGN 2 (MDDF-11)

Prerequisite: TED 10

Students improve on their design thinking and skills through challenges and design contests.

Options include: Architecture, Interior Design, Furniture Design, and 3D Modelling and Sculpting.

DESIGN 3 (MDDF-12)

Prerequisite: DDF 11

Students refine and advance their design thinking and skills through challenges and design contests. They also create a design portfolio to present to future post-secondary institutions and or employers. Options include: Architecture, Interior Design, Furniture Design, and 3D Modelling and Sculpting.

ANIMATION (MDDA-12)

Prerequisite: None

Animation is a powerful form of 2D and 3D design. Hollywood production houses, indie gamers, and medical research scientists all use animation to communicate visually with many people. Animation allows designers to create imaginary

worlds and make the invisible visible. Students will learn how animation can be used to make movies and games, and aid learning.

At McMath Design and Animation students have full use of the following programs.



Autodesk Inventor

Put your big ideas to the test with Inventor®, the 3D mechanical design software professionals use to invent faster bikes and smarter robots. You can use Inventor to turn your own brilliant product concept into a 3D digital prototype, so you can see how it works in real life – before you spend time and money getting it to market.



Autodesk Maya

You may not know Maya® yet, but you already know its work – Maya is the animation software professionals use to make movies, TV shows, and video games. But Maya has a serious side: scientists use it to model asteroids and virus mutations. Get to know Maya, and make your own entertaining animation with an urgent message: save the fish!



Autodesk Revit

The world's tallest skyscrapers share one little secret: before breaking ground, architects and engineers modeled and tested their towering designs in Autodesk Revit software. Learn their 3D modeling trade secrets in Revit, and you can create disaster relief housing strong enough to survive a hurricane.



Autodesk AutoCAD

World Cup stadiums, Broadway stage sets, Street League World Tour skateboards – they all started as sketches in AutoCAD software. Pick up 2D and 3D modeling tricks in AutoCAD used every day by architects and designers, and you can turn parking spots into parks and create movie sets for Star Wars creator George Lucas.



Autodesk 3ds Max

Rumble, rumble... zoom! Either a spaceship just took off, or that was another 3D special effect made with Autodesk 3ds Max®. Learn movie magic with 3ds Max 3D motion graphics – and you can make meteors crash (ooh!), eyeballs bounce (eew!), and fuzzy monsters hug (aww...)



Mudbox

Digital sculpting, also known as **Sculpt Modeling** or **3D Sculpting**, is the use of software that offers tools to push, pull, smooth, grab, pinch or otherwise manipulate a digital object as if it were made of a real-life substance such as clay.

ADOBE PHOTOSHOP

No matter what type of asset you are creating, after the modeling has been completed and the UVs have been laid out, it's time to begin painting textures. For many designers, Photoshop is the primary place for this step.

ADOBE FLASH

Adobe Flash Professional CC is a program that provides an authoring environment for creating animation and multimedia content. The program enables visual designers to build interactive experiences that present consistently across desktops and mobile devices.

<u>ROBOTICS 1/2/3/4 (MTE--09/MTEC-10/MID--11/MID--12)</u>

Prerequisite: none

This intermediate course will focus on using technology to design and build Robots using the VEX robotics platform. Students in this course will be expected to work together in small groups to problem solve, strategize and build a robot that is designed to play a game. Students will learn electronics, programming using Easy C, project management, mechanical structures and a host of other skills as they build. They will also apply physical science to learn about motors, gear ratios, torque, batteries and sensors. Students are expected to attend one VEX competition with their robot to fully test their machine in a competitive environment. This class will run separately from the other industrial design classes.

INDUSTRIAL DESIGN 1 (YIA--0C)

Recommended: ASK 8

Industrial Design 1 is open for students in Gr. 9-12. It is a hands-on project-based course that introduces students to the concepts of manufacturing and production techniques using different materials (i.e. metal, plastic, wood). Students will learn to employ the engineering design process to research, design, and build. Students will learn how to work in teams, solve real-world problems and manage projects. This course is driven by a series of projects with emphasis on trades & technology sectors, which may include: building technology, mechanical engineering, civil/structural engineering, industrial design, environmental technology, aviation and metal manufacturing.

INDUSTRIAL DESIGN 2 (YIA--1A)

Prerequisite: Industrial Design Level 1

Recommended: One of Woodwork, Carpentry & Joinery, Electrical Engineering, or Skills Exploration. Ability in construction, and creative thinking

This course builds on the skills and fundamentals learned in Industrial Design Level 1. This course immerses students in realistic career exploration experiences where they learn the technical skills needed for a wide range of careers related to the trades & technology sector which includes: building technology, mechanical engineering, civil/structural engineering, industrial design, environmental technology, aviation, automotive, and metal manufacturing. Through projects, the students will learn to problem solve and manage a project while utilizing the engineering design process. Projects will require students to use and develop a diverse range of skills and procedures to integrate a variety of different materials. This course strengthens skills with projects that have relevant and challenging content. Basic supplies will be provided to students in order to meet the learning outcomes; however students may bring in optional/extra materials with teacher consultation.

INDUSTRIAL DESIGN 3 (YIA--2A)

<u>Prerequisite</u>: Industrial Design Level 1 and 2

<u>Recommended</u>: One of Woodwork, Carpentry & Joinery, Electrical Engineering, or Skills Exploration. Strong ability in construction and creative thinking.

This advanced course is for highly self-motivated students who have completed at least two years of Industrial Design, and would like to further develop their skills in this area in order to pursue a career in a related field. This course is customized with individual projects and content is keyed to specific technical knowledge to match career interests and abilities of the students. Students will use the engineering design process to problem solve, test and evaluate working prototypes. Areas of in-depth investigation may include: building technology, mechanical engineering, civil/structural engineering, industrial design, environmental technology, aviation, automotive, and metal manufacturing. Basic supplies will be provided to students in order to meet the learning outcomes; however should a student wish to use optional/extra material to enhance upon the learning outcomes, then these may be purchased directly or through the school on a cost recovery basis.

WOODWORK 1 (MTE-09-WW)

Woodwork 9 is an introductory woodworking class. Students will learn about the equipment used, the properties of wood all in a project based environment. The course will cover some basic wood working techniques and a range of projects that allow for the development of skill. Wood 9 will include a strong emphasis on safe work, basic joinery and some recreational wood working such as carving or intarsia.

WOODWORK 2 (MTEW-10)

This course is a natural continuation of Woodwork 9, although it is open to all students regardless of skill level. Not only will students learn about the properties of wood and the environmental issues relating to the forest industry; emphasis will be placed on exploring design, creative problem solving and mastering traditional woodworking skills while continuing to develop skills related to the safe handling of hand, power and machine tools and routines of the woodwork shop. Evaluation is based on individual abilities and work ethic. CSA Protective eyewear is mandatory in this class. Basic supplies will be provided to students in order to meet the learning outcomes of all courses. Should a student wish to use optional materials to enhance or elaborate upon the learning outcomes, then these may be purchased directly (and brought to the school) or through the school on a cost-recovery basis.

CARPENTRY AND JOINERY 3 (MCJ--11)

<u>Prerequisite</u>: One or more of: Woodwork I, Industrial Design I.

This is an intermediate course. Students will develop techniques specific to the craftsmanship of woodworking. Emphasis will be placed on exploring design concepts while constructing wood

products. Students will practice safe work habits, machine and tool maintenance and learn material processes using various methods and machines. Evaluation is based on individual abilities and work ethic. CSA Protective eyewear is mandatory in this class. Basic supplies will be provided to students in order to meet the learning outcomes of all courses. Should a student wish to use optional materials to enhance or elaborate upon the learning outcomes, then these may be purchased directly (and brought to the school) or through the school on a cost-recovery basis.

CARPENTRY AND JOINERY 4 (MCJ--12)

Prerequisite: CJ11

This course is a natural continuation of Carpentry and Joinery 11 with a focus on the principles of furniture and cabinet making. Students may have the opportunity to build their own high quality furniture with supervised instruction, while applying various construction techniques that are used in the The safe work habits taught and emphasized in CJ 12 will prepare the successful student for safe work experiences in construction and cabinetry and furniture manufacturing trades. Evaluation is based on individual abilities and work ethic. CSA Protective eyewear is mandatory in this class. Basic supplies will be provided to students in order to meet the learning outcomes of all courses. Should a student wish to use optional materials to enhance upon the learning outcomes, then these may be purchased directly or through the school on a cost-recovery basis.

ELECTRICAL ENGINEERING:

LEVEL 1 (MTEE-10)

LEVEL 2 (MEL- -11)

LEVEL 3 (MEL- -12)

In the electrical engineering course students will explore electronics, electricity and robotics. Students should have a reasonable math background, an interest in working with tools and equipment and have good management skills. Students will explore electronics, programming and construction techniques. Skills such as component recognition, soldering and troubleshooting will be developed. Students will build electronic circuits, construct a small tethered robot which they will then automate and program using a single chip computer such as an Arduino.

ELECTRICAL ENGINEERING 10 – 12 ON-

LINE OPTION:

LEVEL 1: (MTEE-10-RVS)

LEVEL 2: (MEL-11-RVS)

LEVEL 3: (MEL-12-RVS)

The aims of this course are to teach the basics of electronics and electrical theory through the use of projects and building circuits. Students will cover analog and digital projects as well as learning to use single chip computers such as the Arduino platform. Students will be provided with a kit of components and basic tools as well as a breadboard and an Arduino. They will be responsible for keeping assignments and projects up to date. Instructors will be available via e-mail and other electronic communications such as skype. Students should have a reasonable math background, an interest in working with tools and equipment and have good management skills.

This course will be offered online through the Richmond Virtual School. The course will be offered using the Moodle platform and students will complete most of the work online and at home. There is a requirement of face to face meetings which will be held at McMath Secondary. This will allow for lab time and facilitate the building of projects and work which is difficult to complete at home.

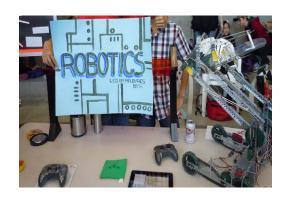
SKILLS EXPLORATION 10-12 (MSTX-10/11/12)

The course provides hands-on experience for Grade 10 – 12 students interested in trying different trades before enrolling in a high-school apprenticeship program (ACE IT and SSA). It's a great chance to gain some new skills, explore a variety of trades in demand and get a sense of what trades is right for you. It is also a great starting point if you are interested in starting your apprenticeship while in high school through the dual-credit ACE IT and SSA programs.

Skills Exploration 10-12 has a number of goals:

- Introduce students to trades and technology careers, and the type of work involved in them, through hands on experience.
- Enhance existing interest in trades and technology careers.
- Enhance students' existing job-readiness skills, or provide opportunities for the development of new skills.

We will explore 4 areas of the trades, electrical, carpentry and plumbing and an introduction to sheet metal and machining.



DRAMA 8 (MDR-8)

Drama 8 is an active participatory course which teaches students to perform and relate to others in a confident, comfortable manner. This course enables the student to develop a strong sense of self-worth and interpersonal skills. Topics include: trust, concentration, observation and sense awareness, imagination, movement, mime, speech, teamwork, improvisation and theatre background. Drama is working under pressure, taking risks, dealing with disappointments as well as enjoying successes and meeting deadlines. Above all though, Drama is FUN with a capital "F". This is a course recommended for ALL students. Assignments and activities include: writing and performing in class, theatre games, communication skills, concentration exercises, group and individual improvisations, scene-work, television scripts, multi-media projects and school presentations. Assignments are based on cooperative group learning.

DRAMA 9 (MDR-9)

Study will focus on individual development through work in the following areas: concentration, trust, voice, sports, teamwork, script work and movement. The student should be able to present ideas in an open manner, remain in character and show concern for the well-being of fellow students. Assignments take the form of theater games, exercises, monologues and dialogues, as well as unit projects and basic scene work (scripted and unscripted). Most work will involve teamwork and be completed in class, however, some rehearsal and preparation for scene work and occasional memorization of script work may be given for homework.

DRAMA 10 (MDRG-10)

Drama 10 furthers the topics taught in Drama 9 and shifts its study to the technical skills of theatre such as: character portrayal, script analysis, introductory directing, vocal enhancement, and play production. Continued emphasis on trust, concentration, sensitivity, imagination, improvisation and roleplaying will also be explored. Improvisations, speech work, role-play, communication skills and group interdependence are stressed. emphasis on solo performances begins via rehearsal and preparation for monologues, memorization of scripted material and project work in which the individual is responsible for the presentation of a specific skill (e.g. directing or blocking). Students must also be able to perform character roles believably.

THEATRE PERFORMANCE 11: Acting (MTPA-11)

Professional and community productions are recommended each term. Acting 11 is designed for the student who is interested in performance. It is a practical course dealing with theatre. It teaches a student skills in front of an audience which will provide self-confidence and self-awareness. At all times, participation, cooperation and teamwork are of major importance. Students will also attend professional productions to develop their critical abilities. Assignments and activities will include: acting techniques, acting styles, scenework, scriptwork, tableau, mask, mime and vocal work. Some work will be done relating to audition techniques, film acting and radio broadcasting. Grade 11 students not only have an increased opportunity to perform but also to participate, when possible, in the BC Festival of the Arts.

THEATRE PERFORMANCE 12: Acting (MTPA-12)

Prerequisite: ACT 11 or Teacher Permission

This course is designed for the advanced acting student. It reinforces the skills emphasized in Acting 11 and goes further in content and expectations. Students will deal largely with scripted roles and their skills of critical evaluation will be emphasized through script reading and attendance at professional productions throughout the year. Assignments and activities will include projects in acting styles, dramaturgy, and auditioning and script analysis. Some work will be done in the areas of film acting and radio broadcasting. Grade 12 students not only have an increased opportunity to perform but also participate when possible, in the B.C. Festival of the Arts.

THEATRE PERFORMANCE 12: Directing and Script Development (MTPDS12)

Recommended: Acting 11 or Teacher permission Admission to the course is based on the approval of the instructor. A student learns to read and analyze scripts with the intention of production. The student will be led through the process of directing including topics such as: play selection, conflicts within the play, research, imagery, period pieces, text analysis, auditions, blocking, objectives, actor-focusing techniques, etc. It is an excellent course in which to learn responsibility, leadership and cooperative skills. Assignments and activities will include reading scripts, writing scripts for various media, script analysis, directing scenes and director's book preparation.