

Matthew McNair Secondary School



Program Planning Guide 2020 - 2021

Welcome to McNair Secondary School! Whether you are a beginning Grade 8 student or nearing graduation, this booklet is intended to help you make the best possible.

Choices for Learning at **Matthew McNair Secondary**

While some courses are required for graduation, many others can be selected to meet your individual interests and goals. As you move into the latter years of your secondary schooling and your goals are clearer, these choices become even more important. We encourage you to experience a range of electives to support the development of a well-rounded graduate.

Once you have made your selections, we will design an individual timetable for you. Sometimes this timetable may not be exactly the way you expected it to be because of class size limits or graduation requirements. For this reason you should think carefully about the alternate course choices you list on your program planning sheet; it is quite possible you may end up taking one or more of these courses.

You should also be aware that our timetable is driven by student requests. If insufficient numbers of students choose a particular course, it is necessary for us to drop it from the master timetable. What this means is that all courses listed in this book may not be offered each year or every semester. Sometimes due to staffing or other changes, there may be some modifications of course offerings and descriptions without prior notice.

You may be aware that students entering Grade 8 or 9 must complete the Intermediate Program before proceeding to Grade 10 and the Graduation Program. Students in the Graduation Program need to successfully complete a minimum eighty (80) credits (20 courses) for graduation including the Graduation Transitions (now: Career Life Connections and Capstone Project) requirement. Specific course requirements are listed on Page 3.

Further, it is expected that senior students discuss plans with their counselor and consult with the career advisor, post-secondary calendars and websites such as www.educationplanner.ca to ensure that prerequisites are met for programs that you are interested in. McNair's course selection process provides an excellent opportunity for personal growth and for exercising decision-making skills. We look forward to helping you make the best-informed decision possible.

Above all, this booklet is a tool for you to take the first steps towards making next year an enjoyable and productive experience. Discuss your options with your family and friends, think about your personal goals and interests and make the best **possible choices for learning** - your future belongs to you.



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Intermediate and Graduation Programs

INTERMEDIATE PROGRAM

Students will be enrolled in eight (8) required courses each year.

GRADE 8

- Humanities 8
- Mathematics 8
- Science 8
- Physical Education 8
- French 8
- Grade 8 Electives Wheel:
 - Combination of Art, Drama, Music, Home Economics, and Tech. Ed.
- Band 8 (optional)

GRADE 9

- English 9
- Social Studies 9
- Mathematics 9 or Math 9E (Enriched)
- Science 9
- Physical Education 9
- An Applied Skills Elective 9
- A Fine Arts Elective 9

GRADUATION PROGRAM

GRADES 10-12

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

Required Courses:

English: Literary Studies 10 / Composition 10	Min. Credits 4 credits
English: Literary Studies 11, Literary Studies 11 Honours, Or Communicating English 11	4 credits
English Studies 12 or Communicating English 12	4 credits
Social Studies 10	4 credits
Social Studies 11, Civic Studies 11 or BC First Nations Studies 12	4 credits
Science 10	4 credits
a Science 11 or 12	4 credits
Mathematics 10	4 credits
a Mathematics 11 or 12	4 credits
Physical Education 10	4 credits
a Fine Arts or Applied Skills 10, 11, or 12	4 credits
Senior Planning	4 credits

Total	48 credits
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Graduation Transitions (see below)	4 credits
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Elective Courses	28 credits
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Minimum of 16 credits at the Grade 12 level including English Studies 12 or Communicating English 12.

****Minimum number of credits required to graduate: 80 credits total**

Graduation Transitions (GT): Grad Transitions is a non-enrolling graduation requirement. Students will be monitored throughout their Grade 12 year to ensure that the requirements of Graduation Transitions are completed in order to graduate. (See: Health and Careers – p.26 for details) The main components are:

- **Personal Helath** – maintain a personal health plan and participate in at least 150 minutes per week of moderate to vigorous physical activity, in addition to PE 10
- **Community Connections** – participate in at least 30 hours of work experience and/or community service and describe what was learned.
- **Career and Life** – complete a transition plan and present significant accomplishments.

General Information

WEBSITE

See McNair's website for more general information.

<https://mcnair.sd38.bc.ca/>

or follow us  on (@McNairMarlins)

REGISTRATION PROCEDURES

Grade seven students living in McNair's catchment and attending a McNair feeder school will automatically be registered in the Spring to enter Grade 8 at McNair in September. Grade seven students living in McNair's catchment who are attending other elementary schools will be contacted by our counselors. A letter will be sent to the home in August explaining back-to-school procedures and dates. Students who are already attending McNair will be programmed by grade in the Spring. They will also be contacted by mail in August.

TRANSFER APPLICATIONS

Students who are not residing in the McNair catchment area must apply to attend McNair by submitting a transfer form by February 28, 2020.

Counsellors will be available in the school to assist students with course planning and timetable adjustments during the last week of the summer. An appointment is necessary.

BELL SCHEDULE - Regular (M W F)

8:15 Warning Bell
8:20 - 9:34 Period 1
9:39 - 9:57 Silent Reading (Period 2)
9:57 - 11:15 Period 2
11:15 - 11:32 Break
11:37 - 12:51 Period 3
12:51 - 1:31 Lunch
1:36 - 2:50 Period 4

McNair's Silent Reading Program is school wide and occurs at the beginning of Period 2.

BELL SCHEDULE - Flex Day (T Th)

8:15.....Warning Bell
8:20 - 9:28 Period 1
9:33 - 10:13 Flex Time
10:18 - 11:26 Period 2
11:26 - 11:44 Break
11:49 - 12:57 Period 3
12:57 - 1:37 Lunch
1:42 - 2:50 Period 4

REPORTING AND EVALUATION

Report cards are issued in November, February, April and June (at the end of each quarter). Interim reports may be requested from and, in some instances, will be initiated by the teacher at any time during the school year.

Students should always know how they are progressing in all subjects. To help in this process, students are issued agenda books in September so a record of achievement in each class can be maintained.

The breakdown of letter grades used by teachers on midterm reports and final reports follows:

<u>Midterm</u>	<u>Final</u>	
A	A	86% - 100%
B	B	73% - 85%
C+	C+	67% - 72%
C	C	60% - 66%
I	F	0% - 49%

I - In progress or Incomplete

COURSE LOAD

All grade 8, 9, 10 & 11 students carry a full schedule of classes – 4 courses every day. Grade 12 students may apply for a study period. Any exception to the above schedule requirement must be approved by the principal.

ATTENDANCE

Regular attendance is an essential element of success. Holidays should be taken during the scheduled breaks in the school year. Absences at other times cannot be authorized and the loss of time may have serious consequences.

TEXTBOOKS

Textbooks are issued by subject teachers. There is no charge for school texts, but if they are not returned or are returned with more than normal wear, students will be billed for their replacement.

PROVINCIAL EXAMS

Provincial Graduation Assessments and Examinations – Numeracy, Literacy (or English 12) – assess student achievement during the graduation years (10-12).

General Information

Special Information for Grade 11 & 12 Students

1. CHALLENGE

Students may challenge a language if they have taken a course in previous years or feel they have the mastery of the course material through other means than the conventional classroom. Some documentation of previous exposure to the language is required. If successful, a student will receive a mark and credit for the language level 11 or 12 which can be recorded on the official transcript for graduation.

To register for a Challenge Exam, students must register with their Counsellor and complete a registration package. The registration package is due **end of October** with a deposit cheque. **The exam is taken in January.**

The following Language Challenge Exams are available for:

- French 11/12
- Japanese 11/12
- Korean 11/12
- Mandarin 11/12 (traditional and simplified)
- Punjabi 11/12
- Spanish 11/12

2. EXTERNAL CREDITS

Credit is automatically granted for documentation which is provided by an approved external body for specific learning achieved outside the school system. Students may qualify for external credit in the following programs that are recognized by the Provincial Government:

- BC Conservatory of Music
- London College of Music
- Royal School of Music
- Royal Conservatory of Music
- Victoria Conservatory of Music
- Western Board of Music (Conservatory Canada)
- Trinity College: London
- External Language Assessment
- External Drama, Speech, and Acting
- External Industrial and Occupation Courses
- External Dance Courses
- Language Training from other countries
- A number of Sport, Athletic or Coaching Programs
- Youth Development Courses: Cadets, 4H, Guides, Scouts
- Lifesaving, First Aid, Outward Bound
- Driver Education
- Canadian Private Pilot's License
- Canadian Pony Club
- Duke of Edinburgh's Award
- Grand Prior's Badge
- Bold Eagle Program

- Snowboard Instructor Level 1 (CASI)
- Ski Instructor Level 1 (CSIA)
- Jazz Dance (ADAPT)
- Tap Dance (ADAPT)
- IB Art History (SL)
- Musical Theatre (Trinity College)
- Performance Arts (Trinity College)

For a complete listing and current information please see the Ministry website:

<https://www2.gov.bc.ca/gov/content/education-training/k-12/support/graduation/getting-credit-to-graduate>



3. DISTRIBUTED LEARNING

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. We have one of the highest success rates in BC.

Our blended Distributed Learning approach provides more choices for students, teachers, and schools. RVS students have the flexibility of learning at different times and places. As independent learners, students also benefit by developing life-long learning skills that will prove useful in other online learning opportunities they encounter.

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 called SKY for grade 11 and 12 students. See RVS website (<https://rvs.sd38.bc.ca/sky>) for information on SKY and our other innovative programs.

There is an expectation that students will be able to attend the regular face-to-face meetings scheduled by the RVS course teachers. Meetings are typically weekly or every second week.

Online Courses offered at McNair are as follows:

- Planning 10
- Planning 10 Mini
- Leadership 12
- Mandarin 11/12
- Yearbook 10-12

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

Enriched Programs

ENRICHED COURSES

Math 9 Enriched	Math 10 Enriched	Math 11 Enriched
AP Calculus 12	AP Studio Art	AP Chemistry
AP Biology	AP English Lit	English 11 Honours
Super Performer Program		

While a regular academic program is very challenging, students planning on going to university or technological institutions may supplement it with certain additional courses.

MATH 9E, 10E, 11E (Enriched)

These courses cover the same material as Math 9, 10, or 11, but go into greater depth and emphasize problem solving. They are recommended for high achieving students in previous mathematics courses. Students planning on continuing in higher level mathematics at McNair and at post-secondary institutions should consider this option.

ADVANCED PLACEMENT

Advanced Placement (AP) is a program which expands upon the normal senior secondary level curriculum and is intended to provide a challenge for academically talented and highly motivated students. This course of studies, through acceleration and enrichment, allows the student to begin college or university studies while still in secondary school. Students completing an Advanced Placement Exam at an acceptable level will receive advanced standing and/or credit at many colleges and universities throughout the world. In North America, such prestigious institutions as McGill, Queens, Harvard, Yale, UCLA, MIT, and Stanford give priority placement to students who have participated in Advanced Placement. In British Columbia, all major universities, UBC, SFU, UNBC and UVic recognize AP programs.

McNair offers AP Calculus, AP Literature and AP Studio Art. McNair plans to offer AP Biology 12 and AP Chemistry 12 for the 2020/2021 school year. Students may also inquire about AP Music Theory - exam only. Students must have a teacher recommendation to enroll in these courses which require a solid background in the subject area. There is no course fee, however, there is a fee for writing the exam. These exams take place in May. For further information go to the College Board website at: www.collegeboard.com/ap

SUPER PERFORMER

The Super Performer Program is an individually tailored course of studies specifically designed to meet the needs of athletes and performing arts students participating or seeking to qualify at the national level. In order to qualify for the Super Performer Program, students must produce documentation to establish eligibility for the program. Arrangements for credit are made on an individual basis through your counsellor in the Counselling Centre. The intent of this program is to give credit to students for the many hours dedicated to their discipline. This will allow for a more balanced schedule by providing more time for training.

INTEGRATED ACADEMICS

This program integrates the framework of the First Peoples Principles of Learning with an emphasis on the core competencies and experiential learning to meet the requirements of the grade 11/12 graduation courses of Language Arts, Social Studies, Math, Science, Applied Skills and Electives. An inter-disciplinary approach is taken with the integration of two or more subjects working closely with the same teacher in a classroom of approximately fifteen students. **Building secure attachment, a sense of community and belonging is at the forefront of the program.** Students in the program have the opportunity to work closely with the teachers, counsellors, administration and a youth support worker to gain valuable skills to help them manage and cope with all facets of their lives.

Assignments are designed to allow students to appear in the curriculum to present a wide range of sophistication in their understanding of themselves, course concepts, content and skills. All students must participate in the Writer's Workshop allowing them the opportunity to gain one-on-one support to enhance their written expression. The program supports students who have experienced challenges in the mainstream school setting for a wide variety of reasons. **Students have the same opportunity to apply and attend post-secondary as other students that have taken the same curriculum.**

An interview with the Integrated Academics teachers, a parent or guardian, and an administrator is required before a student can be admitted to the program. **Students must commit to 100% completion, 86% attendance and being supported to behave in an appropriate manner.**

Enriched Programs

All I.A. students have access to elective courses, facilities, clubs and teams at McNair. Students can choose to take all of their grad requirements in the program or complete just their core graduation courses.



MINI-SCHOOL ***For Highly Motivated Students***

The McNair Mini School is a five-year program beginning in grade 8. The selection process for this exciting program begins each January.

PHILOSOPHY

The McNair Mini School is designed to challenge academically able, motivated students with an enriched course of studies in a cohesive setting. The curriculum will be compressed and enriched to develop critical thinking skills, creativity and independence. McNair Mini School graduates have an enviable record of achievement. They have won many scholarships and been accepted to many prestigious post-secondary institutions.



Just as intellectual progress is vital to each student's future; so too is the social aspect of each student's development. There are three major field trips each year designed to foster the acquisition of essential attitudes: leadership, responsibility, initiative, cooperation and mutual respect. Service to the community will be encouraged. Although the students remain together for their core courses, they retain access to all the elective courses, facilities, clubs and teams of McNair. We believe that these students should play an important part in the environment of the school. Grade 7 Students must apply by **February 6**,

2020 to be eligible for this program in Grade 8.

MINI SCHOOL CURRICULUM

The Mini School core program parallels the regular curriculum. The courses are offered at an accelerated pace and in greater depth. The Mini School grade eight class will take the following courses together as a group: Humanities, Mathematics, Science, Physical Education, and French. The grade nine class will take English, Science, Physical Education, and Social Studies together. The grade ten class will take English, Science, Physical Education and Social Studies 10 together. At the senior level English 11, 12; Social Studies 11 and Planning 11 are taken together.

In addition to classroom experiences, student learning is stimulated through interaction with the community. Guest speakers, visits to business and industrial sites, and attendance at cultural activities will enhance the student's Mini School experience.

SOCIAL DEVELOPMENT

Extended field trips are an essential part of the program. Excursions to sites such as Strathcona Park for outdoor education will be included. Students will develop their organizational abilities, problem solving techniques and cooperative social skills.



Students are encouraged to volunteer their time, energy and talents within the school and in the community. All of these activities are designed to foster friendship, mutual support and personal commitment. As part of their social development students are encouraged to participate in the Young Canadian Challenge for the Duke of Edinburgh's Awards.

ASSESSMENT

Periodic assessments will be made of each student's commitment to the program, as reflected by their achievement, work habits, motivation, and attitude.

Cost: This program is funded by the families participating in the Mini-school. The current cost is approximately **\$1400/year for five years**.

For more information and applications, please contact a McNair counselor at (604) 668-6575.

Student Activities

STUDENT COUNCIL

The Student Council is a club responsible for coordinating and organizing student activities within the school community such as: dances, spirit weeks, candy grams and much more. The Student Council welcomes all students to join at anytime. In Student Council, students will get the opportunity to gain some experience in leadership and responsibility. Meetings are at lunch once a week.

YEARBOOK

Each year a group of interested students produces a yearbook recording the major events of the school year along with student pictures. Working on this book is a valuable experience for anyone interested in the graphics area as a possible career and provides a unique opportunity to make a lasting contribution to the grad class. Interested students should listen for the organizing announcement or contact the general office. Students may be interested in taking the Yearbook class described in the Information Technology section.

MUSIC

Students may be involved in Choir, Strings or Band either on a credit or a non-credit basis. Students who choose to participate are expected to commit themselves to regular practice sessions as well as special performances which normally include one major field trip each year. Please see the music website at mcnairmusic.ca for more details about our music program.

THEATRE

A full range of Acting and Stagecraft classes is offered. Students may audition for the major productions whether or not they are currently taking theatre classes.

CLUBS

A range of clubs appealing to diverse interests is available at McNair (e.g. Eco-Marlins, Animal Rescue Club, Grad Council, First Responders, Marlin Mentors, McNair Tutoring Club). Students are informed of club activities and meetings through the daily student bulletin.

MARLINAIREs

Marlinaires is the school's social responsibility club and supports the *WE Charity* alongside a second non-profit organization. Through fundraisers and awareness campaigns, Marlinaires give back to the school, local community, and abroad with food drives, shoebox

donations, and food sales. Student ambassadors are involved in both school and community service activities.

ATHLETIC COUNCIL

Athletic Council members are elected by the student body. This council organizes school wide events such as the Terry Fox run. Supporters assist school teams through refereeing and scorekeeping, and encouraging athletic involvement.

INTER-SCHOOL ATHLETICS

McNair is a member of the Richmond Secondary Schools Athletic Association and enters teams in most of the sports carried on under that association. Teams offered can vary according to availability of coaches and number of interested students. Students are expected to exhibit a high standard of sportsmanship and must carry a full course load to participate.

FALL SEASON

- | | |
|-----------------|-------------------------------------|
| ▪ Cross Country | All Grades |
| ▪ Field Hockey | Sr. Girls |
| ▪ Rugby | Gr. 8, Jr. Boys |
| ▪ Soccer | Sr. Boys |
| ▪ Swimming | Jr. & Sr. |
| ▪ Volleyball | Gr. 8, 9, Jr. & Sr. Girls, Sr. Boys |

WINTER SEASON

- | | |
|----------------|------------|
| ▪ Basketball | All Grades |
| ▪ Table Tennis | All Grades |

SPRING SEASON

- | | |
|-----------------|--------------------|
| ▪ Badminton | Jr. and Sr. |
| ▪ Golf | All Grades |
| ▪ Rugby | Sr. Boys |
| ▪ Soccer | Sr. Girls |
| ▪ Tennis | All Grades |
| ▪ Track & Field | All Grades |
| ▪ Ultimate | All Grades |
| ▪ Volleyball | Gr. 8, 9, Jr. Boys |

INTRAMURALS

During the noon hour there is a succession of intramural sporting activities. Teams compete for championship certificates in a variety of sports such as cosom hockey, volleyball, badminton, indoor soccer and table tennis.

GRAD EVENTS

The Grad committee works on activities involving the graduation class of that year. Graduation activities include Winter Formal, Boat Cruise, Grad Dinner and Dance, and the Valedictory Ceremony. Valedictory and Grad Dinner and Dance take place in June. The top all-round student is honored as Valedictorian of the Graduating Class. The Scholarship Committee also selects students to speak as the Class Poet and the Class Prophet at Valedictory.

Student Services

STUDENT SERVICES AT McNAIR

The goal of student services at McNair is to assist students to be successful in all aspects of their schooling. As a result of successful and meaningful experiences in school, we believe that students will be better prepared to meet challenges after graduation.

Student services include the following: Counselling, the Career Resource Advisor, the Resource Department, the Library, the school nurse, and the Cafeteria food services.

PROGRAM PLANNING

1. Incoming Grade 8 Students

Program planning for Grade 8 students begins in the spring of a student's Grade 7 year. At this time the Grade 7 classes visit McNair for a morning. They are given information on many aspects of the school and their Grade 8 program. They tour the school, participate in some group activities and have lunch. In addition, counselors and administrators hold an information evening for parents. We encourage all parents to attend and participate actively in their son/daughter's program planning.

2. Students at McNair

Program planning for students who are already at McNair is completed at the school in the Spring each year. Sessions focus on informing students of the graduation requirements and providing them with information about post-secondary opportunities and entrance requirements. This allows students to begin thinking about life after secondary school. Students must select courses that they will be happy with as course changes will be very difficult to make after the timetable has been built.

During late August, all registered students receive a package of materials necessary for school start-up on September 8, 2020. If there are any problems with the courses or if students need some help in planning timetables, counsellors are available at the school during the week before school opens, Aug 31 – Sep 4, 2020. ***Please call the school to make an appointment.***

COUNSELLING SERVICES

For purposes of checking records and interviewing, students are assigned to specific counsellors. Students are welcome to work with any counsellor regarding personal concerns.

Counsellors will check all students' records as they progress towards graduation and advise individuals of any problems that might hinder graduation at the expected time. The alphabetic breakdown of students assigned for each counsellor is:

A – K	Ms. D. Ozla
L – Z	Ms. C. Bagnall

Counsellors provide support in the following areas:

Personal:

- crisis counselling involving home or school problems
- resolving problems arising from difficulties related to class and/or school routines and policies
- inter-community referrals to qualified specialists who may offer additional assistance

Educational:

- course planning leading to graduation, post-secondary education, and employment
- arranging assistance for students experiencing academic difficulties
- providing scholarship information and applications

Career:

- referring students to prospective employers who have contacted the school
- exploring career alternatives and checking for prerequisite courses and requirements for various occupations

Students may make appointments with the counsellors during school hours, before or after school, and at lunch. Parents are also welcome to phone counsellors if they have any questions or concerns or to make an appointment.



Student Services

CAREER ADVISOR

The Career Advisor at McNair provides a wide range of career information materials in the following areas:

- career and post-secondary program exploration based on interests and personality styles
- career information, including job description, working conditions, earnings, related careers, program of study/training, etc.
- employment trends and future outlook
- job search and resume preparation
- application to vocational, career, technical and university programs
- scholarships and other financial aid information
- entrance tests such as the LPI, TOEFL, SAT and ACT

The Career Resource Centre also serves as an assessment and career planning area for students by offering individual interest inventories and participation in the computerized career research program CAREER CRUISING.

Students may make appointments with the Career Advisor in the Counselling Centre. Parents are also invited to arrange an appointment with the Career Advisor by phoning the school at (604) 668-6575.

SCHOOL NURSE

A school nurse provides students with information and counselling on topics such as nutrition, illness, immunization, community health resources, stress management and life-style. Contact with the school nurse can be set up through the administration.

McNAIR SCHOOL LIBRARY

The McNair Library's collection and technology supports learners and educators in a number of ways.

Over 14, 000 carefully selected books and DVDs and 33 computers and iPads support classroom teachers across the curriculum, for student research, and individual reading interests. The 33 devices give learners access to the district's two dozen online educational resources and also contain a variety of educational programs and apps including two that support new makerspace technology. The library now has a 3D printer and two green screens along with the

apps to support them, with more technology coming.

The library is a centre for special presentations by post-secondary institutions, the Richmond Public Library, and various school groups.

The Learning Centre is also located here, with students accessing extra help during lunch and after school.

McNair library also has a reputation as being a friendly, social space. This has been facilitated by comfy furniture and leisure activities such as puzzles, colouring pages, Sudoku, board games and other activities.

Drop by anytime from 8 AM to 3:15 PM.

STUDENT I.D. CARDS AND BUS PASSES

Photographs are taken in September from which combination student identification cards and Go cards (bus passes) are issued. Picture packages may be ordered at the time pictures are taken.

SCHOOL LIAISON PROGRAM

McNair is a participant in the School Liaison Program in conjunction with the Richmond RCMP. The School Liaison Officer is available as a resource person for staff and students and can provide general information on police-related matters. The purpose of this program is to increase awareness and to "bridge the gap" between the police and the community.

CAFETERIA

The cafeteria is under the direction of Ms. D. Ho. Students who are in the Chef Training Program or who are taking regular Cafeteria courses provide a full menu at break and at lunch.

VENDING MACHINES

In addition to cafeteria food services, there are vending machines to provide some items at times when the cafeteria is not open.

LEARNING STRATEGIES

RESOURCE CENTRE & ACCESS LIFE SKILLS PROGRAM

At McNair, students who require a block (or more) of additional support to be successful can receive assistance through the Applied Learning Strategies Centre or ACCESS program. Students enrolled in support blocks often have Individualized Education Plans (I.E.P.'s) to support their learning in other classrooms. Support can take a variety of forms:

- in-class Resource Teacher or Educational Assistant support;
- supported work experience;
- material and test adaptation and/or modification;
- support blocks in the Applied Learning Strategies rooms for help in course work;
- instruction in learning strategies, life skills and/or other necessary areas;
- informal assessment;
- inter-agency collaboration and coordination of services;
- other support as needed.

Support provided depends on individual student needs and interests. Students that do not have IEPs and/or do not require a daily support block may access additional help anytime by dropping in to the Learning Centre, in room 147 (school hours) or library (at lunch and after school). Students are generally referred to this program by their previous school or McNair's School Based Team. Students who feel they would benefit from a block of support should see their counsellor.

LEARNING STRATEGIES: LITERACY AND NUMERACY

This course builds upon students' pre-existing knowledge and skills in mathematics and language arts. The focus of Literacy/Numeracy is to challenge each student at their appropriate skill level in order to become successful in their future endeavours. This course is suitable for students who have a persistent struggle with the acquisition of basic numeracy and literacy skills and are struggling in mainstream Mathematics and English courses. Many students in this course will be on an adapted/modified program. Families should consult with the counsellor, case managers, resource teacher, or administration whether this course is suitable for their child's needs.

Scholarships

SCHOLARSHIPS

There are five categories of scholarships:

1. INSTITUTIONAL

For students who apply for and satisfy the required academic standard based on the donor's criteria which may also include other desired qualifications. Example: University Entrance Scholarships.

2. GENERAL COMMUNITY

For students who apply for and satisfy requirements of an organization awarding a scholarship. Students must take the initiative to find out information about these scholarships and apply for them. Example: The Community Arts Council.

3. SCHOOL COMMUNITY

Scholarships given to Richmond District schools by individual donors or community groups. Specific criteria is established by the donating organization or individual. Students must apply to the McNair Scholarship Committee to be eligible for these awards. Example: The Progressive Contracting Scholarship.

4. "IN SCHOOL" McNAIR

Scholarships given to McNair by donors who have unique relationships to the school. Students must apply to the McNair Scholarship Committee by completing and submitting the online application form to be eligible for these awards. Winners are decided on the basis of meeting specific criteria or on the gross grade-point accumulation in their best fourteen subjects taken at McNair in grades 11 and 12. Example: The G.S. Neel Math-Science Award.

Graduating students should also be aware of the following scholarships or awards:

5. PROVINCIAL

PROVINCIAL SCHOLARSHIP PROGRAM

The program's purposes are to recognize student achievement and encourage students to pursue post-secondary education. Winners must meet the basic eligibility requirements and the specific requirements for each scholarship.

BC ACHIEVEMENT SCHOLARSHIP

BC Achievement Scholarships recognize the top 8000 graduates in the province. The Ministry will determine recipients based on achievement in Grades 10, 11, and 12 courses that satisfy Graduation Program requirements, including elective courses. Winners receive a \$1250 scholarship voucher to use towards their post-secondary tuition.

DISTRICT/AUTHORITY SCHOLARSHIPS

There are 5500 District/Authority Scholarships distributed across school districts and independent school authorities that recognize graduating BC students for excellence in their chosen area of interest or strength. Winners receive a \$1250 scholarship voucher to use towards their post-secondary tuition.

BC EXCELLENCE SCHOLARSHIP

There are 55 BC Excellence Scholarships available to recognize well-rounded BC graduates. Winners will have demonstrated service and leadership, both at school and in their communities, and shown aptitude and commitment to their chosen career paths.

Please visit the BC Ministry of Education website for more information on the various Scholarships Programs –

<http://www2.gov.bc.ca>

GOVERNOR-GENERAL'S BRONZE MEDAL

Based on McNair's consistent records of high academic achievement, the school has been given the privilege of awarding the Governor-General's Bronze Medal to the top academic student each year. This award is part of a Federal Government program to promote excellence in education.

The counselling Centre has information for many of these scholarship opportunities.

Post-Secondary Information

POST-SECONDARY INFORMATION

The information on the following pages is by no means complete. It is designed to serve the needs of the majority of McNair graduates who desire to enter a post-secondary institution. The counselling department of McNair maintains an extensive library of calendars as well as an up-to-date computer file for Canadian and American universities, technical institutions, etc.

Visit institution websites or the BC database provided at <http://www.educationplannerbc.ca/>

1. VOCATIONAL SCHOOLS

Vocational schools include: VCC City Centre, VCC King Edward, Kwantlen University College, and BCIT. Programs vary with the different schools. Entrance requirements range from high school graduation in related programs to grade 10 completion. Detailed information on vocational programs is available at the counselling office.

2. COMMUNITY COLLEGES/POLYTECHNIC UNIVERSITIES

There are many community colleges in B.C. McNair graduates often attend either Kwantlen, Langara, BCIT, VCC or Douglas. The major options offered by the colleges may include:

- a) *University transfer*: Students may complete either one or two years of university course work and transfer directly to one of the five major universities.
- b) *Career Programs*: These programs are up to two years in duration and equip students with job related skills.
- c) *Technology Programs*: one and two-year programs are given at the Newton Campus of Kwantlen, VCC City Centre, B.C.I.T. and VCC King Edward Campus. Admission requirements are more extensive than those for general college entrance.
- d) Students applying to BCIT should complete admission requirements in the first semester of their Grade 12 year.

3. UNIVERSITIES

The major universities in B.C. include UBC, SFU, UVic, UNBC and Trinity Western. They are degree-granting institutions and most of their programs are 4 or 5 years in length.

Students wishing to apply for entry to these institutions should check the appropriate calendars, or the post-secondary websites for specific and up to date entry requirements

CAREER DEVELOPMENT WEBSITE

To find out more about Career Development opportunities, visit the Richmond School District career resource website:



<http://careerprograms.sd38.bc.ca/>

The above website includes the Career Centre website (Newsworthy) and will be of interest to Grade 10, 11 and 12 students. It provides information about career and post-secondary options such as apprenticeship programs, career fairs, program information sessions, entrance tests, campus tours, scholarships, and exchange programs. The website also provides information on post-secondary applications, employment, volunteering opportunities and entrance tests. Find out more about the wide variety of programs offered in Richmond. Find many interesting links to websites about Labour Market Information, Career Exploration, Presenting yourself with cover letters, resumes, and at interviews, and much more. This website will be very useful to Planning 10 and Senior Planning students.

Career Programs – a working option

CAREER PREPARATION PROGRAMS (CPP)

CPP's offer an innovative approach to education that combines academic studies with realistic work placements in the community. Career Preparation Programs are designed for students who wish to graduate from secondary school and, at the same time, develop career awareness and relevant skills. Students may begin their Career Preparation Program as early as Grade 10, however, most courses are completed in Grades 11 and 12.

All programs will lead to post-secondary at Universities, Colleges, Vocational or Technical Schools. Upon graduation, a student's transcript will indicate completion of the CPP. In some cases, this may lead to preferential admission to a post-secondary program.

CPP's integrate classroom theory with practical experience in the workplace by linking the resources of secondary schools, business, industry and the community to provide young people with a highly motivating educational experience. Through contact with skilled employees, students develop an awareness of the attitudes and responsibilities (employability skills) necessary for success in the workplace. In addition, students improve their interpersonal and communication skills with the adult community. These experiences help students make decisions about their future careers and gain confidence in making the transition from secondary school to the world of work or to post-secondary education.

A CPP requires the completion of 4 courses (16 credits) that directly relate to the Program area:

- Work Experience of 100 hours (WEX 12A and/or WEX 12B)
- Two Focus Courses

Courses will often be chosen from one of the eight Focus Areas identified in the graduation program. As such, a Career Preparation Program can assist students in completing a significant portion of the Graduation Portfolio requirements. A Career Preparation Program will help students complete criteria related to the Graduation Transition Program.

For more information about Career Preparation Programs please see your counsellor, visit the district Career Options website at: <http://public.sd38.bc.ca/~careers/> or see the teacher responsible for coordinating the area of Career Preparation you are interested in pursuing.

COURSE DESCRIPTIONS



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, a fee may be required.

Students may also pay costs in connection with optional field trips.

FINE ARTS 8

This is a 6 week exploratory course in which all grade 8 students will gain experience in the applied skills subjects: Art, Business Education, Drama, Home Economics, Music and Technology Education. Students will spend one third of a semester in each of the areas of study.

ART 9 (MVA 9)

Develop your creativity in this dynamic project based course. Advance your skills or learn new ones in: ceramics, printmaking, drawing, painting and more. You will also develop your awareness of the work of famous artists and important events in art history through class discussions and art assignments.

ART 10 (MVAG 10)

Students taking Art for the first time will be placed into Level 1. Art 10 students who have taken a previous art course will be placed in Level 2. Projects in this course are designed to develop artistic ability in beginners and at the same time allow advanced student artists to hone their skills. All 2D and 3D media such as ceramics, printmaking, drawing and painting could be explored in this exciting course. Students will also develop awareness of the work of famous artists and important events in art history through class discussions and art assignments.

CERAMICS AND SCULPTURE (MVAC 10)

In this intermediate course students will develop techniques specific to ceramics and sculpture. Emphasis will be placed on hand building with clay and other sculpture using a variety of materials such as recycled items, plaster, wood, and paper mache. Students will be expected to keep a sketchbook as part of the design process. Most projects will be teacher directed but there will be the opportunity for students to pursue personal themes and imagery within the framework.

DRAWING AND PAINTING 10 (MVAD 10)

In this course students will develop techniques specific to drawing and painting. Emphasis will be placed on drawing from observation, memory, and imagination through regular sketchbook assignments and projects. Painting skills will be developed using a variety of media such as water colour, acrylic, and tempera paints using

a variety of supports or methods such as paper, canvas, cloth, collage, and mixed media. Most projects will be teacher directed but there will be the opportunity for students to pursue personal themes and imagery within the framework.

PHOTOGRAPHY 10 (MVAM 10)

Students will need a simple “point and shoot” automatic 35 mm camera in this course. However, if a student is serious on proceeding further into photography a manual SLR camera is highly recommended. Photography 10 is an introductory course. The primary emphasis is on learning basic photographic and darkroom techniques. Students will learn to develop film into negatives, and then produce black and white photographs in the darkroom. Some of the topics covered are traditional photographic techniques, composition and design, studio lighting, special effects, mixed media techniques and more. Along with traditional photography, digital photography will be explored.

PHOTOGRAPHY 11 (MVAMT 11)

Students taking Photo 11 for the first time will be placed into Level 1, but will receive Grade 11 credits. Photo 11 students who have completed Photo 10 will be placed in Level 2.

Students will need a simple “point and shoot” automatic 35 mm camera in this course. However, if a student is serious on proceeding further into photography, a manual SLR camera is highly recommended.

The primary emphasis is on learning basic photographic and darkroom techniques. Students will learn to develop film into negatives, and then produce black and white photographs in the darkroom. Some of the topics covered are traditional photographic techniques, composition and design, studio lighting, special effects, and more of an emphasis on creative individual responses. Along with traditional photography digital photography will be explored.

Photography Level 2 builds on the foundation skills acquired in Level 1 with an increasing emphasis on the development of a personal style. Students will further develop their darkroom techniques in black and white film processing and negative development. Students will experiment with advanced camera techniques to produce images that convey their growing sense of strong

composition, emotional/artistic connection, and technical mastery. Projects will include a look at the concepts of graphic design, high fashion photography, special effects, and more – with an emphasis on creative, individual responses. Student will also begin to apply their photographic knowledge to the digital manipulation of their images through the use of photographic software. Students will need a simple “point and shoot” automatic 35 mm camera in this course.

PHOTOGRAPHY 12 (MVAMT 12)

Students receiving credit for Photography 12 will be asked to pursue their own creative ideas with vigour and to seek out creative and original solutions to photographic problems. Not only will students in Photo 12 be creating a portfolio that displays the breadth and quality necessary for admission to a post-secondary photo program, they will also be searching out their own artistic style and voice.



ART FOUNDATIONS 11 (MAF 11)

Students taking Art 11 for the first time will be placed into Level 1. Art 11 students who have completed one or two art courses will be placed in Level 2 or Level 3 consecutively.

This course gives the student experience with a wide variety of techniques and processes. It may include drawing and painting, printmaking, mixed media, and ceramics. The focus will be on developing an awareness of and skill in the use of the elements and principles of design, developing personal images, skill in the use of the various media and techniques and an increased awareness of historical and cultural contexts. Students will be required to maintain a sketchbook for visual thinking, exploration and skill development. Projects completed in this course may form part of the developing

student portfolio for use in future employment or further arts education at the post-secondary level.

ART FOUNDATIONS 12 (MAF 12)

This course gives the student experience with a wide variety of techniques and processes. It may include drawing and painting, printmaking, mixed media, and ceramics. The focus will be on developing an awareness of and skill in the use of the elements and principles of design, developing personal images, skill in the use of the various media and techniques and an increased awareness of historical and cultural contexts. Students will be required to maintain a sketchbook for visual thinking, exploration and skill development. Projects completed in this course may form part of a developing student portfolio for use in future employment or further arts education at the post-secondary level.

Student will be expected to complete advanced projects selected in consultation with the teacher.



DRAWING AND PAINTING 11 (MSADP 11)

Students taking Drawing and Painting for the first time will be placed into Level 1. Drawing and Painting students who have completed one other art course will be placed in Level 2.

This course is for the developing artist who is interested in acquiring skills and techniques in drawing and painting through use of a variety of 2 dimensional media and materials ie. water colour, acrylic on canvas and board, fabric painting, scratchboard, and mural panels. Emphasis will be placed on individual sketchbook development and completion of assignments that show advanced personal image development.



DRAWING AND PAINTING (MSADP 12)

This course is for the serious artist who is interested in further developing a variety of skills and techniques in drawing and painting through use of a variety of 2 dimensional media and materials. Emphasis will be placed on individual sketchbook development and completion of assignments that show advanced personal image development. Students will have the opportunity to adapt assigned class work to individual portfolio requirements and/or themes.

AP ART – ADVANCED PLACEMENT (A2DP12)

Pre-requisite: Teacher recommendation

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 AP Art is designed to assist and guide the student in the preparation of a portfolio that will be evaluated by AP Faculty Consultants at the beginning of May in Cincinnati, U.S.A. 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. Students are expected to bear the costs of any materials they use that are not available to students in regular art courses. As well, students are responsible for the costs of the shipping and the evaluation of their portfolio. Areas of focus include 2D design (which can be photo based).

Additional information about advanced placement course can be found at

<http://www.collegeboard.com/student>



CERAMICS AND SCULPTURE 11 (MSACS 11)

Students taking Ceramics and Sculpture for the first time will be placed into Level 1. Ceramic and Sculpture students who have completed one or two art courses will be placed in Level 2.

In this course students will develop their skills with 3 dimensional media. Starting with basic hand building skills for clay, students will gradually acquire the skills to do more independent projects. Emphasis will be placed on the design and production of both functional and decorative objects using a variety of finishing materials (glazes, stains, paints etc). Although clay will be the principal medium explored, other 3 dimensional methods and materials such as paper maché and mixed media will also be introduced.

CERAMICS AND SCULPTURE 12 (MSACS 12)

This course is a continuation of Studio Arts 11: Ceramics and Sculpture with greater emphasis on the development of personal themes in 3D media. The individual student will have the opportunity to experiment with various glazing and finishing techniques in ceramics and may also choose to develop skills on the pottery wheel. Students will also work with other materials that may include plaster, soap stone, recycled materials, and wood.



Business Education

Business Education courses offer a variety of opportunities for students to gain knowledge and skills for part-time employment and entry level jobs as well as for post-secondary business studies.

ENTREPRENEURSHIP & MARKETING 8

This is the 6 week introductory course to the world of Business Education.

Students will touch upon the units of Marketing, Entrepreneurship and Promotion by participating in a Barter Economy, creating a product advertisement and a print ad, participate in a Dragon's Den/Shark Tank unit by creating a prototype product and analyzing and preparing sales pitches for school Dragons.

The Technology unit will introduce students to online presentation software and look at Digital Citizenship through a discussion of internet safety and protocol with discussions on cyber-bullying, identity theft, etc.

The final project is a video message to their Grade 12 selves recorded and store on a USB to be given upon graduation in grade 12.

Students are highly recommended to continue with the Grade 9 level course in this area.

ENTREPRENEURSHIP & MARKETING 9 (Formerly Business Education 9)

**Recommended follow-up course to Entrepreneurship and Marketing 8*

In this course a variety of topics will be introduced to give the students a look at the diverse aspects of business studies. Students in this course will examine elements of companies, looking at such things as: characteristics of entrepreneurship, foundations of business, how businesses advertise, branding, trademarking, banking and money management. Students will also be involved in business ventures, participate in mock job interviews, create resumés and cover letters as well as other business documents, learn about budgeting and complete basic tax forms. Other units to be covered include marketing, construction of financial documents, decision-making, budgeting, and economics.

Through the content of the course, students will learn proper keyboarding techniques and computer skills, which will be emphasized through various business-oriented software.

This course is ideal for students who are interested in

Marketing or Accounting in their senior years or those who wish to become an entrepreneur and start their own businesses.

ENTREPRENEURSHIP & MARKETING 10 (Formerly Business Education 10)

**Recommended follow-up course to Entrepreneurship and Marketing 9, but not a required pre-requisite*

This course is ideal for students who are interested in Marketing or Accounting in their senior years or those who wish to become an entrepreneur and start their own businesses. Concepts developed in the junior courses will be extended and further business and technology topics and software will be explored. Topics will include marketing, entrepreneurship, economics and personal decision making.

Students are advised to continue their Business studies by pursuing either Accounting 11 or Marketing & Promotion 11 as a follow-up to this course.

ACCOUNTING 11 (ACC 11)

This is a course in basic accounting principles and their applications. It is highly recommended for any student who plans on pursuing a career in Business/Commerce to take this first level course or for any student who has a desire to become an entrepreneur and start their own business.

Topics to be covered are: assets, liabilities and equity, general ledger, subsidiary ledgers, journal entries, trial balance, financial statements; income statement and balance sheet, and source documents – all to be explained in detail over the course.

A unit on personal income tax is also included in this course where students will understand the basics of Canada's tax system and prepare a simplified tax return.

Textbooks for the course are online and easily accessible by any computer. An optional workbook with all assignment forms and documents is strongly recommended at a cost of under \$30 (and this can be used for the follow-up course).

Business Education

ACCOUNTING 12 (ACC 12)

Pre-requisite: Accounting 11

This course stresses the practical application of the principles taught in Accounting 11, using more advanced procedures and techniques. Advanced concepts such as payroll, depreciation, and internal control will be introduced.

Accounting 12 is a useful course for any student who expects to go directly into employment in business. Those students who intend to complete a university business degree, college business diploma or a professional accounting degree are strongly advised to take this course. "Quickbooks" is the software that is introduced to students in this course.

Advanced concepts of financial accounting encourage students to develop analytical, decision-making and communication skills.

MARKETING & PROMOTION 11

(Formerly Marketing 11)

**Recommended follow-up course to Entrepreneurship & Marketing 10 but no pre-requisite*

This course is an introductory activity-based course in the basics of marketing from a retail perspective.

Topics in Marketing 11 include advertising (television, magazine, radio, outdoor and online), ad design, sales promotion, marketing research and strategies, visual merchandising, distribution channels, public relations, packaging, pricing strategies, ethics and subliminal advertising.

Discussions and activities around popular culture related to marketing as well as field trips and projects and presentations will be used to acquire insider knowledge about the methods used to attract customers to products and services from a retailing perspective.

Among the projects, students will create a business plan, print ad, 3D layout, website and video commercial for an entrepreneurial enterprise of their choosing.

E-COMMERCE 12 (FORMERLY MARKETING 12)

**Recommended follow-up course to Marketing & Promotion 11 but not required*

Depending upon class dynamics, this course may involve the running of a student based school store where students, as a class, will make marketing, purchasing and accounting decisions.

As well, students may also be working with local businesses on their marketing plans – creating social media campaigns, video commercials, marketing research, SWOT analyses, websites and other projects.

Students will also redesign the school logo and choose school clothing for sale to the general McNair population and incoming grade 7s.

A yearly cancer fundraiser for the Canadian Cancer Society will be undertaken by the class as well as the design and running of the McNair Grad Auction (profits going towards a photobooth rental and Dinner & Dance/Prom) and the year end Grad video.

Topics include a review of Marketing & Promotion 11 concepts, Consumer Behaviour, Marketing Research and Strategies, Sales Promotion and Event Planning.

PSYCHOLOGY 12 (XPSY 12)

This course will provide students with the opportunity to study and investigate individual identity, personality, human development, gender roles, abnormal behaviour, stereotyping, research methods in psychology, theories and stages of human development and an understanding of interpersonal relationships.

Psychology 12 will allow students to take psychological concepts and apply them in the real world by conducting actual experiments to identify and evaluate theories, interpret data and to develop an understanding of the influences on human behaviour. All of this will be done via a course long game.

Psychology 12 topics will include but are not limited to sibling rivalry, parent-child relations, stress management, adolescent development, lying, love and other emotions, bullying, test taking strategies and adjusting to post-secondary life, etc. Popular culture references will abound during the discussion stage of this course.

This course is recommended for any student who wants a better understanding of their own and other's behavior and motivations. The course will well prepare the university/college bound students by giving them a great introduction to the Psychology field.



CULINARY ARTS 11

Note: This course is open to Grade 10 & 11 students. No pre-requisites are required. Also, students may register for multiple blocks of Culinary Arts 11.

Culinary Arts 11 is an introduction to commercial cooking and baking and is a fun, engaging class that helps students develop personal and vocational skills. Students first complete Food Safe Level 1, a Ministry of Health program, which provides a great stepping-stone for those wishing to gain employment in the food industry. Once in the kitchen, students learn the safe use and sanitization of tools and equipment and rotate “stations”, learning how to prepare sandwiches and salads; soups and sauces; short order meals and entrées; vegetables and starches; and cookies, basic quick breads and yeast breads. Students gain valuable experience serving the school population and attend exciting field trips, visiting producers and renowned chefs, learning about and enjoying multi-course meals and interacting with chefs at some of Vancouver’s top restaurants.

If you love food and are interested in learning about professional cooking and baking, Culinary Arts 11 is for you!

CULINARY ARTS 12

Note: This course is open to Grade 11 & 12 students. Students may register for multiple blocks of Culinary Arts 12.

This is a follow-up course to Culinary Arts 11, designed to further develop the student’s knowledge and skills in commercial food preparation and service. Students will develop proficient use of commercial kitchen tools and equipment and foodservice terminology. Students learn more advanced techniques in the advanced preparation of stocks, soups, and sauces; protein cooking; vegetable cooking; starch cooking; short-order and entrée cooking; and the preparation of desserts and baked goods. Students gain valuable experience serving the school population and attend exciting field trips, visiting producers and renowned chefs, learning about and enjoying multi-course meals and interacting with chefs at some of Vancouver’s top restaurants.

Interested and responsible students can learn barista or cashier skills and participate in special event catering and annual events like pancake breakfasts, gingerbread house competitions, and black box-style cooking competitions. If you enjoy working in a fast-paced, professional environment, want to take a leadership role in the kitchen, and may be considering a career in the dynamic foodservice industry, Culinary Arts 12 is for you!



HUMANITIES 8 (HUM 8)

Humanities 8 integrates the study of English and Social Studies and is a course that runs for the entire year. It is designed to develop students' skills in reading, writing, listening, and speaking, emphasizing both comprehension and composition skills. Course content includes a focus on the Middle Ages, the Renaissance, mapping, and basic geographical concepts. A wide range of literature is studied, and a workbook supports grammar and composition lessons.

EN: ENGLISH 9 (ELA—9)

Recommended Prerequisite: Humanities 8

English 9 combines three key areas of the English Language Arts - oral language, reading/viewing, and writing/representing - in an effort to provide students with opportunities for personal and intellectual growth. With an emphasis on literacy, the course promotes strategies towards building relevant meaning and critical thinking.

Students will continue to develop their reading, writing, speaking, and listening skills. Participation in these experiences is intended to further their understanding and appreciation of English language and literature.

EN: LITERARY STUDIES 10 / COMPOSITION 10

Prerequisite: EN: English 9

Commanding a language (reading, writing, speaking, and listening) is essential in an increasingly complex world, as are the appreciation and critical analysis of literature. Reading, writing, and speaking are developed through an examination of a wide choice of topics. Students will focus on writing as well as the literary analysis of texts and other media sources in order to explore specific themes, periods, and authors.

This course provides students with individual and collaborative opportunities, to study, create, and use language and produce original pieces. Additionally, the students will have opportunities for performance and public speaking. This course also recognizes the important role of digital literacy and facilitates the effective communication and exchange of ideas both online and in print.

This course encompasses the Ministry designated modules for the English Language Arts curriculum: composition, creative writing, literary studies, new media, and spoken language.

EN: LITERARY STUDIES 11

Prerequisite: EN: Literary Studies 10 / Composition 10

EN: Literary Studies 11 combines the five modules of the curriculum - composition, creative writing, literary studies, new media, and spoken language-to deliver a comprehensive inquiry into language acquisition and critical thinking strategies. Students will learn how to write expository and persuasive essays in response to literature, narrative essays that reflect their personal and cultural identities, and personal responses that voice student opinion. They will develop their confidence in their abilities to communicate their ideas both in writing and in speaking.

EN: LITERARY STUDIES 11 HONOURS

Prerequisite: Minimum 80% in EN: Literary Studies 10 / Composition 10 or with teacher recommendation

EN: Literary Studies 11 Honours is an academic course that parallels the EN: Literary Studies 11 curriculum in an environment enriched by the composition of the class. The course is designed for students who are passionate about the English language, enthusiastic about literature, and dedicated in their work habits to promote an in-depth exploration of the subject matter. Students who enroll in this course are mature learners who will mine for analytical meaning in texts; work collaboratively in group settings, building upon another's contribution to further their own; and hone their writing skills, both creatively and critically. Through a variety of mediums from composition to performance, students will learn to show a greater depth and breadth of discussion, a stronger effectiveness of argument, and a richer level of insight.

Note: This course is particularly useful to students who plan to take the elective **EN: Literary Studies 12** or **AP English Literature and Composition** in their graduating year. It is also designed for students who wish to pursue an English Literature or Language major in their post-secondary education.



EN: COMMUNICATING ENGLISH 11/12 (CELA 11/12)

Prerequisite for Communicating English 11: 50-60% in EN: Literary Studies 10 / Composition 10 or teacher recommendation

Prerequisite for Communicating English 12: 50-60% in EN: Literary Studies 11 or minimum 50% in Communicating English 11

Note: Grade 11 students enrolled in this course will receive EN: Literary Studies 11 credit. Grade 12 students enrolled will receive EN: English Studies 12 credit towards graduation..

Students may be recommended for EN: Communicating English 11/12 from EN: Literary Studies 10 / Composition 10 or EN: Literary Studies 11. The course combines the same five modules of the curriculum as EN: Literary Studies 11 and the demands of EN: English Studies 12, but is designed to enrich the reading, writing, speaking, and general communicating skills of students who are looking for an alternative learning environment. The course will explore a variety of mediums and topics: the use of short stories, film, and graphic novels enrich the students' understanding of language and the ability to communicate their ideas. With built-in adaptations and extra support for learning, students will focus on finetuning composition fundamentals, acquiring new vocabulary, and exploring abridged classics.

EN: ENGLISH STUDIES 12

Prerequisite: EN: Literary Studies 11 or Communicating English 11

Note: EN: English Studies 12 is a graduation requirement.

EN: English Studies 12 is an academic course which continues to help students develop their critical thinking skills through listening, speaking, reading, and writing. Engaging in the study of poetry, plays, short stories, and novels, students will analyze what they read, make connections, and synthesize new information from a variety of texts.

EN: English Studies 12 is an intensive course that combines the five strands of the English Language Arts into a unified curriculum: composition, creative writing, literary studies, new media, and spoken language. Through a study of select texts and excerpts, students are expected to delve beyond the surface and find meaning in both the blatant and the subtle. With surgical precision, students will hone their writing skills that will demand a careful control and awareness of diction, sentence structure, audience, and style.

EN: LITERARY STUDIES 12 (MLIT-12)

*Prerequisite: EN: Literary Studies 11 or
EN: Literary Studies 11 Honours*

Note: EN: Literary Studies 12 is an elective course. Students must also enroll in EN: English Studies 12 for graduation requirements.

This course surveys English literature from the Anglo-Saxon to the modern period. Students will polish their thinking skills and obtain knowledge of Canada's cultural heritage through a survey of the major figures of English literature and the times they lived in. Students have the opportunity to examine some of the finest, most provocative literature in the English canon.



AP ENGLISH LITERATURE AND COMPOSITION (AELC-12)

Prerequisite: EN: Literary Studies 11 or EN: Literary Studies 11 Honours

Note: AP English Literature and Composition is an elective course. Students must also enroll in EN: English Studies 12 for graduation requirements.

AP English Literature and Composition engages students in the critical reading and analysis of literature. Through the close reading of selected texts, students deepen their understanding of the ways writers use language to provide both meaning and pleasure for their readers. As they read, students consider a work's structure, style, and themes as well as such smaller-scale elements through the use of figurative language, imagery, symbolism, and tone. Course readings will be accompanied through collaborative discussion, visual literacy, and insightful writing.

In May, students will have the option of taking the AP Literature and Composition exam. Those who receive a score of four or higher may be awarded credits for post-secondary English at participating North American universities and colleges.

English Language Learning

ENGLISH LANGUAGE LEARNING (ELL)

Students who do not have English as their first language must acquire the learning outcomes of Levels One to Three in the ELL program before commencing the regular English program. Students in Level Three can take their regular Social Studies course concurrently with Intermediate ELL. Students in Level Four can take their regular English course concurrently with ELL English. Students will receive the following number of blocks of support per year for each level:

- Level 1 – 3 Blocks
- Level 2 – 3 Blocks
- Level 3 – 2 Blocks
- Level 4 – 1 Block
- Level 5 – non-enrolling

BEGINNER ELL (LEVELS 1 AND 2)

This course is for students with emergent English skills. It focuses on learning basic grammar, improving the four key language skills (speaking, listening, reading, and writing), and adapting to the school and Canadian culture. Students will have the opportunity to explore non-fiction, short stories, novels, poetry, Canadian history, and Canadian and world geography. Students will also study science safety, materials, and vocabulary, as well as fundamental math terminology. An ELL workbook may be used in this course. Students wishing to write in this book will be charged up to \$45.00. It is strongly recommended that students bring a bilingual dictionary/translator to each class.

Our ELL students are assessed on an ongoing basis. This assessment includes Richmond School District level testing. ELL 1 & 2 students will be given a final letter grade/percentage on the June report card. A progress report will be included as an attachment to each report card.



INTERMEDIATE ELL (LEVEL 3)

In this course, students continue to improve their speaking listening, reading, and writing. Students will also study Social Studies in one ELL 3 block, with a focus on Canadian geography, history, and government. In the second block, students are introduced to more complex poetry, short stories, novels, and drama. Level 3 students can take regular Social Studies. An ELL workbook may be used in this course. Students wishing to write in this book will be charged up to \$45.00. It is strongly recommended that students bring a bilingual dictionary/translator to each class.

Our ELL students are assessed on an ongoing basis. This assessment includes Richmond School District level testing.

ELL ENGLISH (LEVEL 4)

In this course, students continue to strengthen their four language skills. Students will read and interpret a variety of literary genres (poetry, short stories, novels, drama), employ a variety of writing styles, expand their vocabulary, and further hone their grammar skills. Level 4 students can take a regular English course. An ELL workbook may be used in this course. Students wishing to write in this book will be charged up to \$45.00. It is strongly recommended that students bring a bilingual dictionary/translator to each class.

Our ELL students are assessed on an ongoing basis. This assessment includes Richmond School District level testing.

ELL ENGLISH (LEVEL 5)

Level 5 students who have received ELL support for fewer than five years are eligible for support from an ELL teacher in the following ways: in-class support, small-group pullout, and individual tutoring. Students are most commonly supported in courses such as English and Social Studies.

Health and Careers

CAREER EDUCATION 8 & 9

The Health and Career Education 8 & 9 curriculum address education and careers, healthy living and relationships, safety and injury prevention and substance misuse prevention. Learning outcomes for Health & Career Education 8 & 9 are covered within grade 8 and 9 required courses and through assemblies, guest speakers and special events.

CAREER LIFE EDUCATION (CLE)

This course is a graduation requirement for all students in British Columbia and replaces Planning 10. Students will explore a variety of learning outcomes that are directly relevant to their future personal wellness, living arrangements, financial planning and career path. Career Life Explorations will invite students to consider the impact of their personal and career choices on themselves and others. Students will explore personal development, connections to the community and career and educational life plans.

CAREER LIFE EDUCATION 10 ONLINE

This course is also offered online at Matthew McNair Secondary School. If students are considering taking this course online they must be prepared to manage their time at home to complete course work. The online class meets weekly at lunch time and students will use an online platform to complete and submit assigned work.

GRADUATION TRANSITIONS (GT)

Graduation Transitions or GT ended in the 2018-2019 school year and is no longer available. All students who have completed Planning 10 or Career Life Education and GT have met the Career graduation requirements and do not have to complete Career Life Connections and the Capstone.

CAREER LIFE CONNECTIONS AND CAPSTONE PROJECT 12 (CLC and Capstone)

This is a new 4-credit graduation requirement for all students in British Columbia and replaces Graduation Transitions or GT. Students will receive a percentage and a letter grade on their official transcript for CLC and Capstone. **Students who have completed GT do not need to complete CLC and Capstone.** This course is still being developed at Matthew McNair Secondary School, but students will continue to explore a variety of learning outcomes that are directly relevant to their future personal wellness, living arrangements, financial planning and career pathways. Career Life Connections will invite students to consider the impact of their personal and career choices on themselves and others. All students will prepare and present a **Capstone project** where students will reflect on and share how they have grown and learned in the core competencies and as a global citizen.



Home Economics

APPLIED SKILLS (ASK 8)

This is a 6 week exploratory course in which all grade 8 students will gain experience in the applied skills subjects: Art, Business Education, Drama, Home Economics, Music and Technology Education. Students will spend one third of a semester in each of the areas of study.

TEXTILES 9/10 (HET 10)

This course is designed to help students further develop their skills in hand and machine sewing. Students will complete a variety of samples and projects which will expose them to commercial patterns, allow them to make pattern alterations and use fitting techniques to produce garments that are comfortable and attractive. The principles of design and color as well as characteristics of fibers will be considered in the selection of patterns and fabrics which will individualize student projects.

FOODS 9/10 (MFDN 09 / MFDN 10)

This course is open to students who are interested in gaining up-to-date knowledge of the basic principles of food preparation, cookery, and nutrition for everyday life. It will allow students an opportunity to prepare, serve, and enjoy nutritious, appetizing recipes while employing time and resource management skills.

TEXTILE 11 (TEX 11)

This is recommended for students who want to learn how to select clothing that suits their personality and figure type. They will learn how to individualize for and to develop advanced sewing skills so they can select almost any pattern and make a quality garment. Projects selected will involve such techniques as notched collars, linings, underlinings, and special types of seams and finishes. The number of garments will vary according to the complexity of the designs and the requirements of the fabric chosen.

TEXTILE 12 (TEX 12)

This advanced course is designed for those with a sincere interest in fine-tuning their skills in sewing and in manipulating pattern pieces to create individual designs. Areas of emphasis include pattern design and sewing techniques that relate to fabrics requiring special handling, advanced sewing and tailoring techniques,

combining and manipulating patterns to suit taste. Leather, lace, taffeta, velvets, fake furs and outdoor-wear fabrics will be explored and used in projects. The choice of projects will be determined by the design and fabrics students wish to explore. The number of garments will vary according to the complexity of the designs and the requirements of the fabric chosen. This course is a prerequisite for post-secondary courses in fashion design and fashion merchandising.

FOOD STUDIES 11 (FDS 11)

Meals and special occasion meals and dishes will be planned and prepared using practical and theoretical knowledge of nutrition and the principles and techniques involved in both food preparation and meal planning.

FOOD STUDIES 12 (FDS 12)

This course covers advanced techniques and knowledge in the area of foods and nutrition. Areas covered are: food preservation, comparative cookery, diet and disease, meal planning and preparation and international food study. Individual practice and responsibility are stressed in planning and preparing of high quality products. Written work relative to topics outlined is assigned. Evaluation is based on tests, written

assignments, projects and labs.

FAMILY STUDIES 9/10 (FM 9/10)

This course focuses on three major areas of study: family resource management, changing lifestyles and relationships in the adult years, and child development. Topics of study include: family function, structure and changes, the physical, emotional, intellectual and social adjustments that are necessary through the stages of child birth, growth and development from birth to school age, and adulthood.

FAMILY STUDIES 11/12 (FM 11/12)

This course offers students the opportunity to develop a better understanding of themselves and their relationships with others. Areas of study include physical, social and mental development of the adolescent, individual identity, human potential, relationships and social skills, individual resource management, communications skills, community resources and teen concerns such as drug and alcohol abuse, and stress management.



Information Technology, Yearbook & Leadership

COMPUTER STUDIES 10 (MWBDV 10) (formerly Computer Programming Level 1)

IT Level 1. This is an introductory course for students in grade 9-12 who are interested in digital design opportunities using a variety of computer software. Main topics include photo editing, video-editing, 2-D animation, keyboarding and an introduction to computer programming. Additional topics may include environmental impacts of technology, censorship, Microsoft Office, but are subject to change based on classroom composition.

Note: Computer Studies 10 & Media Design 10 have the same level 1 curriculum.

MEDIA DESIGN 10 (MMEDD 10) (formerly Information Technology Level 1 – Media Design)

IT Level 1. This course is an introductory course for students in grade 9-12 who are interested in digital design opportunities using a variety of computer software. Main topics include photo editing, video-editing, 2-D animation, keyboarding and an introduction to computer programming. Additional topics may include environmental impacts of technology, censorship, Microsoft Office, but are subject to change based on classroom composition.

Note: Computer Studies 10 & Media Design 10 have the same level 1 curriculum.

MEDIA DESIGN 11 (MMEDD 11) (formerly Information Technology Level 2 – Media Design)

IT Level 2. This course is for students in grade 10-12 who have completed IT Level 1 (Computer Studies/Media Design 10) and are interested in digital media design. Students will have opportunities to create personal graphic designs using computer software. Students will learn about principles of design and balancing practicality with aesthetic design and the uses for Vector and Raster images in the graphic design world.

Note: Media Design 11 is part of the level 2 curriculum alongside computer programming 11. If a student takes more than 1 course in level 2, students will learn concepts that expand on their knowledge beyond level 2.

COMPUTER PROGRAMMING 11 (MCMPR 11) (formerly Computer Programming Level 2)

IT Level 2. This course is for students in grade 10-12 who have completed IT Level 2 (computer Studies/Media

Design 10) and are interested in computer science & web development. Students will learn about computational thinking and best practices for a programming language and website development. Students will have opportunities to learn and create functional code that meet a particular purpose or user-defined goals.

Note: Computer Programming 11 is part of the level 2 curriculum alongside Media Design 11. If a student takes more than 1 course in Level 2, students will learn concepts that expand on their knowledge beyond level 2.

COMPUTER PROGRAMMING 12 (MCMPR 12) (formerly Computer Programming Level 3)

IT Level 3 and beyond. This course is for students in grade 11-12 who have completed an IT Level 2 course (Computer Programming/Media Design 11) and are interested in computer science or digital design. Students will learn more advanced computer programming concepts, principles of graphic design focusing on user-centered design and digital media editing tools. Students will continue to learn and conduct best practices for computer science including topics such as documentation and debugging. Opportunities for personalized projects will be available.

YEARBOOK 10, 11 and 12 (Online Only)

Students require strong self-motivation, good time management and organizational skills as well as the ability to work in various teams. Students will meet with the teacher about once per week for an hour outside of the school timetable for planning and work sessions.

Students will be responsible for taking digital photos (DSLR cameras supplied), conducting interviews and quotes, designing and composing and editing pages as well as text, graphic art and other layouts.

Though not necessary, it would be beneficial of students to have some prior knowledge of programs such as InDesign or Photoshop.

This course requires students to be available outside of regular class hours to attend sport events, student activities etc.

The course runs from September to April and the culmination of the course is the proud production and distribution of the McNair yearbook fully designed and created by the students.

Information Technology, Yearbook & Leadership

LEADERSHIP 12

This is a locally developed course intended to assist students in developing leadership skills and strategies. This course will include a variety of topics that will encourage an interactive, cooperative environment allowing students to explore skills learned in the classroom in real life situations. Project based learning will drive this course giving the students the opportunity to discover their own areas of interest. This course is open to grade 11 and 12 students.

Note: This course will be offered as a linear (September-June) on-line course. Students who are taking this course will be required to meet a minimum of once a week either early in the morning, at lunch or after school. This will be determined once the course has started.

MATHEMATICS 8 (MA 8)

In Math 8, students will improve their understanding of proportional reasoning, number operations, measurement, geometry, algebra, and financial mathematics through the ongoing development of the curricular competencies: reasoning & analyzing, understanding & solving, communicating & representing, and connecting & reflecting. Developing these curricular competencies will be the instructional focus in the course.

INTRODUCTION TO MATH 9 (XAT-09)

Prerequisite: Recommendation from Math 8 Teacher

This is an elective course for students who struggled to find success in math 8. The goal of the course is to revisit some of the topics in Math 8 and preview some in Math 9. Students must take Math 9 in the second semester following this course. Students must be recommended for this course by their Math 8 teacher.

MATHEMATICS 9 (MA 9)

In Math 9, students will improve their understanding of number operations, measurement, linear relations, polynomials, algebra, and financial planning through the ongoing development of the curricular competencies: reasoning & analyzing, understanding & solving, communicating & representing, and connecting & reflecting. Developing these curricular competencies will be the instructional focus in the course.

MATHEMATICS 9 ENRICHED (MA 9E)

Prerequisite: Recommendation from Math 8 Teacher

This course is designed for those students who have above-average Mathematical ability and motivation. The class will proceed at an accelerated pace which will allow for a greater depth in topics as well as include extra topics not covered in the regular course. Project work and constant practice is part of this course. Teacher recommendation is required.

APPRENTICESHIP AND WORKPLACE MATH 10 (AWM 10)

This course is designed to provide students with the mathematical understanding and critical-thinking skills identified for entry into the majority of trades and for direct entry into the work force. Topics include algebra, two- and three-dimensional geometry, trigonometry, measurement, and income. Twenty percent of the final mark is derived from a provincial exam.

FOUNDATIONS OF MATHEMATICS AND PRE-CALCULUS 10 (FMP 10)

This course is designed to provide students with the mathematical understanding and critical thinking skills identified for entry into most post-secondary programs, both those requiring calculus and those that don't. Students taking this course will decide whether to pursue Foundations of Math 11, Pre-Calculus 11, or both next year. Topics include two- and three-dimensional geometry, measurement, exponents, polynomials, coordinate geometry, and functions. Twenty percent of the final mark is derived from a provincial exam.

ENRICHED MATH 10 (FMP 10EN)

Prerequisite: Enriched Math 9 or recommendation from Math 9 teacher

This course covers the curriculum of all of the Foundations and Pre-Calculus Math 10 along with some material from Foundations of Math 11 course with enrichment to preview Pre-Calculus 11 and 12. It is intended for students who received a mark of **B. or higher** in Math 9 and are interested in studying Math, Science, or Engineering at the university level.

MATH 11 COURSES

McNair offers three math courses at the grade eleven level. Please note that they do not represent “easier” or “harder” options. **Most students should take FOM 11.** Only students intending to study Calculus at the university-level should take Pre-Calculus 11. If students are unsure of their plans, they may take as many math 11 courses as they want (in the same way that students have the option of taking courses in more than one field of science). Students planning on studying the mathematical sciences in post-secondary should take both Foundations of Math 12 and Enriched Math 11.

Note: Students intending to write the SAT or participate in math contests for scholarship purposes should consider taking both Foundations of Math 11 and 12 and Pre-Calculus 11 and 12. Taken alone, neither of these two pathways covers the required material.

FOUNDATIONS OF MATH 11 (FOM 11)

Recommended Prerequisite: FMP 10

This course is designed for students who have passed Foundations of Math and Pre-Calculus 10. It focuses on topics in mathematics that will be most applicable for College and University programs that do not require calculus, including the Humanities and Social Sciences, and Fine Arts. **It is the appropriate course selection for most students**, including those intending to pursue post-secondary education as it covers a much wider range of topics than the Pre-Calculus 11 course, which only focuses on a narrow branch of mathematics. Topics will include measurement of area, surface area, and volume, Euclidean geometry including proofs, logical reasoning, systems of equations, quadratic functions, and statistics.

WORKPLACE MATH 11 (WPM 11)

Recommended Prerequisite: AWM 10

This course is only for students who have passed Apprenticeship and Workplace Math 10. It focuses on topics in mathematics that will be most applicable in jobs that do not require university-level training, including financial mathematics, geometry, volume and surface area, data representation, trigonometry, and linear relations. While Workplace Math 11 satisfies Ministry of Education graduation requirements, it may not be sufficient for entry into some post-secondary programs. Please check with your individual institutions for details.

GEOMETRY 12

Recommended Prerequisite: FMP 10

This course explores geometry in more depth than students would see in either the Foundations or Pre-Calculus pathway. Topics include geometric constructions, circle geometry, 2D transformations, perspective, projections, and other non-Euclidean geometries. This course is recommended for students interested in taking mathematical sciences, engineering, or physics in university. Note that this course counts as a Math 11 or 12 math course for graduation.

HISTORY OF MATH 11

Recommended Prerequisite: FMP 10 or AWM 10

This isn't your regular math class! Rather than focusing on developing specific mathematical skills, students will explore the history and development of our current understanding of number systems, algebra, geometry, probability, and statistics. Additionally, we explore the

development of computational technology from clay tablets to supercomputers, and look at the importance of cryptography as an historical application of mathematics. Note that this course counts as a Math 11 or 12 math course for graduation.

PRE-CALCULUS 11 (PREC 11)

Recommended Prerequisite: FMP 10

This course is designed for students who have passed Foundations of Math and Pre-Calculus 10. It focuses on topics in mathematics that will be most applicable to **university programs that require calculus**, including Science, Math, and Engineering. Students not intending on pursuing a career in these fields should take Foundations of Math 11 as it offers a broader range of mathematical topics. Topics in Pre-Calculus 11 are limited to those required for Calculus, including absolute value, radical, quadratic, and rational equations and inequalities, polynomials, sequences and series, and trigonometric functions. Of the three grade eleven courses, this course is the most abstract and has the least applications to most careers as it is a theoretical mathematics course. It satisfies the Ministry of Education graduation requirements, but may not be sufficient for entry into some post-secondary programs. Please check with individual institutions for details.

ENRICHED MATH 11 (PREC 11EN)

Recommended Prerequisite: "B" or higher in FMP 10, and teacher recommendation

This course is designed for motivated students who have shown a high level of achievement in previous math courses. It will cover all the topics of Pre-Calculus 11 and some of the topics in Foundations of Math 11.

MATH 12 COURSES

APPRENTICESHIP AND WORKPLACE MATH 12 (AWM 12)

Recommended Prerequisite: AWM 11

This is the final course in the apprenticeship and workplace pathway. It is an appropriate choice for students who are interested in pursuing an apprenticeship program at the post-secondary level or who do not plan on pursuing post-secondary studies. Topics include financial mathematics, geometry, probability, logical reasoning, and precision, accuracy and uncertainty of measurements.

FOUNDATIONS OF MATH 12 (FOM 12)

Recommended Prerequisite: A or B in Foundations and Pre-Calculus 10

This course is designed for students with a strong interest in mathematics outside the pre-calculus pathway. Topics include statistics, geometry, functional regression, set theory, fractals, combinatorics, and probability.

PRE-CALCULUS 12 (PREC 12)

Recommended Prerequisite: Minimum C+ in PREC 11

This course is for students who intend to continue their study of mathematics at the university or college level. It is a requirement for many post-secondary math, science, engineering, and business programs. Note that some non-math-based programs specifically require FOM 12 and not PREC 12, so students should check the entrance requirements of their post-secondary program of choice when selecting a grade twelve math course. Topics include transformations of functions, radian trigonometry, polynomial functions, trigonometric proofs, combinatorics, and rational and radical functions.

AP CALCULUS (ACAL 12)

Recommended Prerequisite: Minimum C+ in PREC 12.

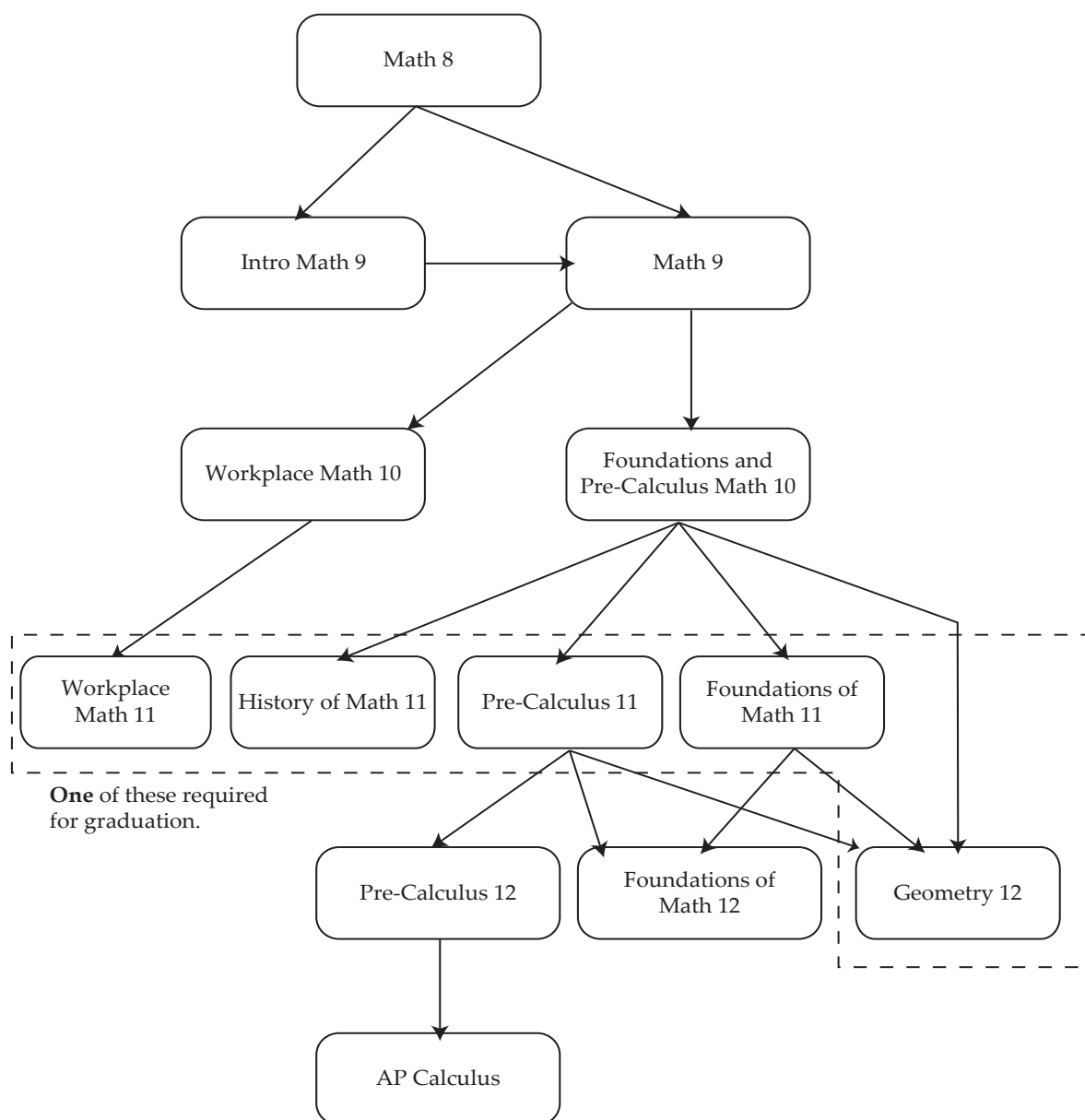
This course is designed for above-average students who have completed Pre-Calculus 12 and intend to take more mathematics at a post-secondary institution. Any student wishing to take any post-secondary science, as well as many business programs would benefit from AP Calculus in high school. The course deals with derivatives and integrals. It is roughly equivalent to the first semester of a first year university/college math course. A graphing calculator is required for this course, and may be borrowed from the school. This course is offered in the second semester only. Students will be prepared to write two optional exams to gain university credits while still in secondary school.

STATISTICS 12

Suggested Prerequisite: FOM 11 or PREC 11, although motivated students may enter directly from FMP 10

This course is designed for students who would like an introduction to a first-year college or university statistics course as most college and university programs in business, social science, humanities and engineering require students to take at least one statistics course. Statistics 12 is a hands-on introduction to statistical techniques including sampling, data analysis, and hypothesis testing. It will also address ethical concerns of data manipulation.

Math Course Pathway Progression



Modern Languages

FRENCH 8 (FR 8)

Learn to communicate in French! This course teaches French at an introductory level, and uses situations and themes familiar to students to encourage authentic practice and connection to the language. Emphasis is placed on communication and speaking as well as common cultural practices. Students will create an interactive notebook to help relate to and organize their newly developed language skills.

FRENCH 9 (FR 9)

Expand your knowledge and ability to speak and write in the target language. This is an opportunity for students to continue to develop their speaking and writing skills as well as their comprehension of the language. Themes will continue to be chosen based on creating a fun, authentic, engaging experience for language learning. Students will continue to add to their interactive notebook to help relate to and organize their newly developed language skills.

SPANISH 9 (SP 9)

A variety of learning activities are included, with emphasis on a creative approach to generating authentic written and oral communication in Spanish. A combination of reading, writing, viewing, listening, and speaking enables students to acquire a basic knowledge of Spanish language and culture quickly and effectively.

MANDARIN 9 (MAN 9)

This course is for students with no or limited Chinese language experience. If you would like to have some fun learning the Chinese language and culture by learning how to cook and enjoy Chinese food and other hands-on activities – then this is the course for YOU! A system of writing Mandarin sounds using the English alphabet, known as “Pinyin” helps you to both read and speak this amazing language rapidly. Students will also be taught a limited number of Chinese Characters in addition to Pinyin Romanization System using the English Alphabet. Come and learn a language that is widely used in the Lower Mainland and prepare yourself for the future.

FRENCH 10 (FR 10)

This is an opportunity for the students to continue to expand on their communication and comprehension skills as well as work on developing the ability to share

opinions and inquire on a variety of relevant topics. At this stage, the students will also be able to explore speaking in multiple tenses. Students will continue to add to their interactive notebook to help relate to and organize their newly developed language skills.

SPANISH 10 (SP 10)

Prerequisite: SP 9

Spanish 10 builds upon knowledge gained in Spanish 9. This course will reinforce the skills learned in Spanish 9: listening, speaking, reading and writing. Emphasis is on perfecting pronunciation, mastery of the basic grammatical structures, and increased communicative proficiency through authentic situations.

MANDARIN 10 (MAN 10)

Expand your knowledge of Mandarin and improve your ability to communicate in day-to-day situations. Students will continue to learn more about the Chinese culture and to build their vocabulary and expressions by using the English Alphabet in a Pinyin Romanization System as well as learn a limited number of Chinese characters.

*If you have fluency in Chinese, you should enroll in MAN 11B. If you are uncertain, please see Ms. Ao.

FRENCH 11 (FR 11)

Recommended Prerequisite: FR 10

As the students' knowledge and abilities increase, this course will allow them to talk about, question and give opinions on many common everyday life experiences such as relationships, family, sports, school, hobbies, media, culture and more. Students will be encouraged to take risks with their written and spoken output skills. The students' comprehension skills will be challenged and they will develop an increasing level of proficiency with reading and listening. Students will be asked to demonstrate their knowledge through project work both in individual and group forms. This is the course level required for entrance to some universities.

SPANISH 11 (SP 11)

Recommended Prerequisite: SP 10

This course continues the study of important basic vocabulary and sentence structure. Increased emphasis is placed on writing and reading, and on Hispanic cultural topics. This is the course level that is required for university entrance.

Modern Languages

FRENCH 12 (FR 12)

Recommended Prerequisite: FR 11

This course serves as an opportunity for students to celebrate and synthesize all of the language skills acquired over the course of their exploration of French. By the end of this course, students should be equipped with the skills needed to express themselves at a basic level with a francophone setting. This could be a course required for several post-secondary programs.

SPANISH 12 (SP 12)

Recommended Prerequisite: SP 11

Acquisition of speaking and writing skills is emphasized in this course. Spanish is studied through a thematic approach to contemporary Spanish and Latin-American culture and literature.

Depending on demand, this course may not be offered every year.

MANDARIN 11 (MAN 11)

Recommended Prerequisite: MAN 10

This course is an in-depth study of Chinese language and culture. While the main focus and emphasis will be on language useful in day-to-day situations, plenty of opportunities will be given to improving and perfecting spoken Mandarin. Students will be learn how to write Chinese characters in addition to the Pinyin Romanization System. Chinese culture will also be studied in depth. This is the course level required for university entrance.

MANDARIN 12 (MAN 12)

Recommended Prerequisite: MAN 11

This course will help you improve your knowledge of vocabulary, reading comprehension, and writing skills. Students will continue to study Chinese culture through hands on activities, projects and skits, with the emphasis on oral Mandarin.

Depending on demand, this course may not be offered every year. Mandarin 12 can be used for GPA admission calculations to post-secondary.



Performing Arts - Music

The philosophy of the McNair Music Department is: To encourage, motivate, offer insight, and pursue excellence through the study and performance of music. We advocate the exploration of goals, learning from all experiences, and the transference of gained knowledge to all other areas of life.

Through rehearsal and performance students can develop skills and attitudes that will assist them in acquiring that are technical, artistic and social that in turn will facilitate their participation in the world of music throughout their entire lives.

Students are offered the opportunity to prepare themselves to be both competent and reliable members within a variety of exciting performance groups. Membership in these groups calls for a strong character as well as strong musicianship. It is essential to respect oneself and others at all time.

Matthew McNair Secondary Music courses follow provincially prescribed curricula. Strong emphasis is placed on developing proficiencies that are useful and indeed recognizable in post-secondary musical endeavors of all kinds. Elements of this curriculum are common at all grade levels with an appropriate degree of mastery set for each level. Supplementary materials and activities such as small ensemble assignments and written reports will be added with increasing frequency as the grades progress.

All ensembles members are expected to attend the Fall Music Department Retreat in October each year. All Ensembles will perform in the community and travel to perform at a variety of venues and festivals throughout the year. Students are expected to participate in all performances. All ensembles will attend festivals for adjudication.

FINE ARTS 8 (FA 8)

This is a 6 week exploratory course in which all grade 8 students will gain experience in the fine arts subjects: Art, Drama, and Music. Students will spend one-third of a semester in each of the above areas of study. The music portion of Fine Arts will focus on guitar performance, basic music theory, rhythm, and listening.

Note: All bands are comprised of mixed grade levels. Placement is entirely upon the student's instrumental skill level.

JUNIOR CONCERT BAND (MU-08)

In this course students will have the opportunity to continue their music studies progressing from an elementary band class or from private study. Various performance, listening, and music creation activities will be introduced through a rich selection of band literature. Beginners are welcome in their class, but should consult with the teacher before selecting an instrument. Any students electing to take Band 8 must take it in addition to the required grade 8 course load. This credited course meets outside the regular school day, one day after school, one day at lunch per week.



INTERMEDIATE CONCERT BAND (MCB 9/10)

In this intermediate level course students will continue to develop their creating, listening and performance skills through the study of more advanced literature.

Performance is stressed in this class and students will have many individual and group performance opportunities.

SENIOR WIND ENSEMBLE (MCB 10, IMCB 11& IMCB 12)

This class will accept experienced grade 10, 11 and 12 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 teacher 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. Performance is required for this ensemble.

Performing Arts - Music

CONCERT CHOIR 9-12 (MCC 10, CMCC 11 and CMCC 12)

This course is open to all students in grades 9-12. While previous singing experience is an asset, it is not a prerequisite. A wide variety of music styles will be introduced including traditional folk, show tunes, pop, jazz, madrigals and classical. Correct singing techniques and vocal health will be stressed. Performance is an integral element of the class. One auditioned piano player will be accepted into this course.

JUNIOR JAZZ BAND (MJB 9/10)

This course is designed to introduce and expand on the basic instrumental jazz concepts by studying various styles such as swing, ballad, Latin, fusion and jazz-rock. Improvisation will be introduced along with various jazz techniques needed to perform jazz. Solo performing, jazz combos and large ensemble playing will be studied during the year. Students should have completed at least 2 years of instruction in band before selecting this course.

JAZZ BAND 11 and 12 (IMJB 11 and IMJB 12)

Recommended Prerequisite: MJB 10

This advanced Jazz band course is designed to expand on the basic instrumental jazz concepts introduced in the Junior Jazz Band course. More jaz styles will be studied as well as repertoire of Jazz standards. Jazz combos, solo performing, and large ensemble playing will all be studied during the term. A greater depth of improvisation skills will be introduced along with various advanced jazz techniques needed to perform jazz in each of the various jazz styles. There is a focus on performance and jazz theory.



ORCHESTRAL STRINGS 8-12 (MOS 10, IMOS 11 and IMOS 12)

Violin, viola, cello and string bass players of any level are welcome. Bowing techniques, orchestral ensemble playing and performance techniques will be studied through a wide variety of music. Listening skills will be strongly emphasized through organized field trips and study of famous string players. Performances will be an important element of this course. Instruction is offered to beginner string players and those with little or no experience are encouraged to enroll. One auditioned piano player will be accepted into this course.



Performing Arts - Theatre

FINE ARTS 8 – DRAMA COMPONENT (FA 8)

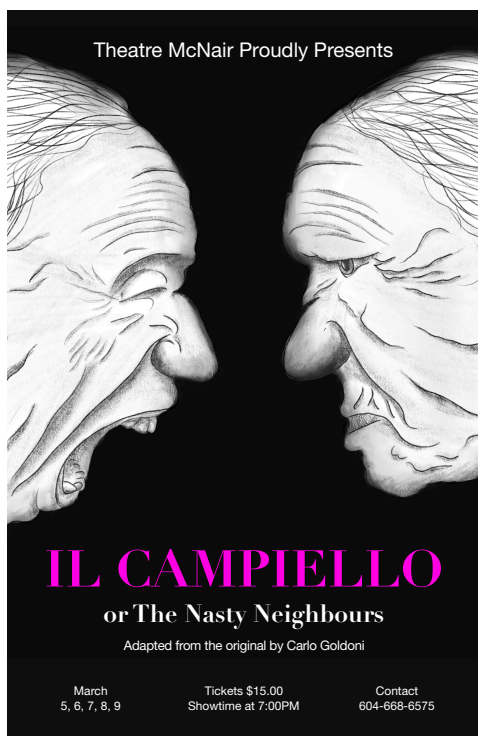
As part of the Grade 8 elective wheel, students will explore basic Drama skills and learn to collaborate and problem solve in groups. Drama 8 is a participation-based course where students will build their self-confidence, self-awareness and public speaking and presentation skills through imaginative, creative play.

DRAMA 9 (DR 9)

In Drama 9, students will build upon the skills introduced in Drama 8. This course is designed to develop awareness, confidence and self-esteem, through artistic collaboration and creative play. Students will learn to problem solve and gain greater self and social awareness. The course is not performance based; rather the emphasis is on participation.

DRAMA 10 (DR 10)

This is an exploratory course in creative Drama where students begin to examine some of the basic components of theatre such as characterization, play building and basic video production. Like Drama 9, the course is designed to build personal skills such as self-confidence and self-esteem in a safe group environment. The course is not performance based; rather the emphasis is on participation.



ACTING 11 (TPA 11)

Acting 11 shifts the focus from creative exploratory Drama to more technique-based performance. Students will develop the skills necessary to script work such as interpretation, characterization and critique. They will also have the opportunity to create and perform their own material. New fields of study include mask work, make-up application, scripted monologue, scripted scene work and video production. Only self-motivated and disciplined students should enroll.

ACTING 12 (TPA 12)

Prerequisite: Acting 11 or instructor's permission

This course is designed for those students interested in learning the finer points and techniques of performance and further developing their own artistic voice. It allows those students interested in pursuing theatre to explore various styles of classic theatre and techniques. Styles to be developed include a selection of Greek, Shakespearian and Contemporary. This course will prepare serious theatre students for post-secondary theatre training and/or work.

STAGECRAFT 11 (TPR 11)

An introductory course designed to give the student the opportunity to study the technical aspects of theatre. Each student will explore the basic principles of set design, costume design, lighting design, make-up techniques and set construction. These activities will run concurrently with the usual work-a-day activities of the theatre such as basic carpentry, costume alterations, painting and so on. Students will also look briefly at the history of stagecraft. Knowledge gained in this course may be put into practice by working on the technical crew of school productions. Students should note that great emphasis in this course is placed on participation and self-discipline.

STAGECRAFT 12 (TPRT 12)

Prerequisite: TPR 11

This course is a continuation of Stagecraft 11 with an emphasis on leadership. Students are expected to take on a leadership role in the daily routines of the theatre. This may include set construction, costume construction, prop building and theatre management. Students are required to be involved in the crew of one of our theatre productions. This is a very hands-on, practical course and self-discipline and self-motivation are essential for success.

Performing Arts - Theatre

DIRECTING & SCRIPTWRITING 12 (TPDS 12)

Prerequisite: Acting 11

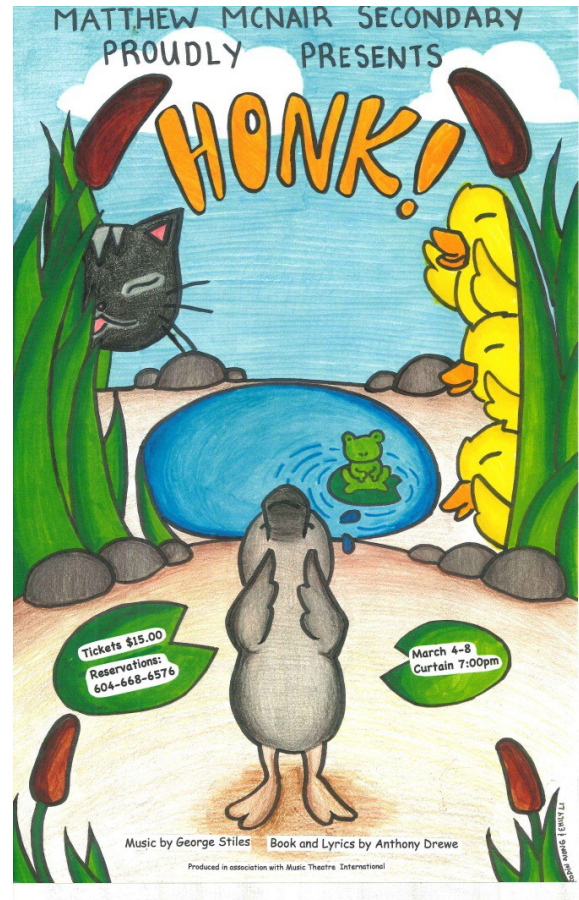
This course is taught in a non-traditional manner. The class will be run in a collaborative professional workshop environment where students are required to share and participate fully in the theatrical production process. Students develop, first hand, a language for the stage in their writing which can be read by those directing it. Students will be required to both write and direct a one-act play or film production. Final projects will be performed or shown in the setting of a one-act festival.

THEATRE COMPANY 12

Do you think a career in the theatre, either as a performer or backstage as a crew member, is for you? This course is designed to let you experience the reality of this career by working alongside theatre professionals to gain practical experience in the industry. Each student must complete a minimum of 120 hours of work, outside of our regular schedule. These placements are extracurricular and coincide with various theatrical productions. Course enrolment is limited and requires instructor approval. See Mr. Soriano for more information.

CAREER PREPARATION PROGRAM: PERFORMING ARTS

Courses will depend upon your area of interest. Please speak to Mr. Soriano for more information.



Physical Education

PHYSICAL EDUCATION 8 (PE 8)

The PE 8 program will review and develop the basic movement skills developed through the elementary physical education program. Students will be exposed to a broad spectrum of physical activities selected from team sports, individual sports, dance and active health and fitness. Skill progression will be evaluated in the psychomotor (skills), cognitive (written test), and affective (attitude) domains.

PHYSICAL EDUCATION 9 (PE 9)

The PE 9 program will continue skilled progressions introduced in grade 8. Activities will be selected from team sports, individual sports, and active health and fitness. Class activities are derived from skills developments and improvement, written exams, and demonstrated participation and effort in class. Grades will be based on evaluation in the psychomotor, cognitive and affective domains.

PHYSICAL EDUCATION 10 (PE 10)

Required for Graduation

The PE 10 program will continue skill progressions developed in PE 8 and 9. Activities will be selected from team sports, individual sports, dual activities, dance, active health and fitness, and St. Johns' First Aid. Class activities are derived from skill development, improvements, and demonstrated participation and effort in class. Grades will be based on evaluation in psychomotor, cognitive, and affective domains.



PHYSICAL EDUCATION 11 (PE 11)

The PE 11 program will continue to provide opportunities to be physically active and develop skills in several areas including team sports, individual sports, lifetime activities, and leisure activities. Grades will be determined by evaluation in the psychomotor, cognitive, affective domains, and participation.

PHYSICAL EDUCATION 12 (PE 12)

Recommended Prerequisite: PE 11

The successful PE 12 student will demonstrate qualities of leadership and good citizenship. PE 12 seeks to develop leadership and organizational skills. The content of the course emphasizes lifetime activities that students began in PE 11. Students will also be given the opportunity to develop organizational skills necessary to operate activity programs.

WOMEN'S FITNESS 11/12 (PE 11 / PE 12)

The focus of this course, designed for females, is on lifetime pursuits and leisure activities. Many of the activities will introduce students to non-traditional activities such as aerobics, power-walking and cycling. Moreover, the course will address women's health and fitness issues.

STRENGTH AND CONDITIONING 11/12 (YSCD11 / YSCD 12)

This course will emphasize various aspects of weight training. Olympic free weights, core strengthening exercises, dynamic stretching and cardiovascular fitness activities will be implemented in conjunction with proper nutrition to support a healthy and active lifestyle. Students will learn to design sport specific training programs and implement them with their peers. This course will be offered year round every other day as an early morning class, as well as in timetable.

SCIENCE 8 (SC 8)

Topics to be covered: safety, the scientific method, life processes within cells, behavior of matter, light energy, and plate tectonics. Students will have the opportunity to gain science inquiry skills and explore scientific literacy by regularly completing: practical laboratory experiments and lab reports, inquiry projects, group presentations and tests. Students will be assessed based on core and curricular competencies.

SCIENCE 9 (SC 9)

Topics to be covered: safety, the scientific method, cellular reproduction, electronic arrangement of atoms, electric current, and the interconnection between the biosphere, geosphere, hydrosphere, and the atmosphere. Students will have the opportunity to gain science inquiry skills and explore scientific literacy by regularly completing: practical laboratory experiments and lab reports, inquiry projects, presentations, quizzes and tests. Students will be assessed based on core and curricular competencies.

SCIENCE 10 (SC 10)

Topics to be covered: safety, the scientific method, genetics, chemical reactions, the law of conservation of energy, and the formation of the universe. Students will have the opportunity to gain science inquiry skills and explore scientific literacy by regularly completing: practical laboratory experiments and lab reports, inquiry projects, presentations, quizzes and tests. Students will be assessed based on core and curricular competencies.



LIFE SCIENCE 11 (BIOLOGY 11 – BI 11)

Recommended Prerequisite: SC 10

Topics to be covered: lab safety and processes of biological research, taxonomy, evolution, microbiology (bacteria, protozoa), plant biology (algae, moss, ferns, gymnosperms, angiosperms), and animal biology (sponges, jellies, worms, mollusks, echinoderms, chordates). Students will have the opportunity to express their learning by completing practical laboratory experiments and lab reports, dissections, biological drawings, projects, presentations and tests. Students will be assessed based on core and curricular competencies.

ANATOMY AND PHYSIOLOGY 12 (BIOLOGY 12 – BI 12)

Prerequisite: It is strongly recommended that students take BI 11 and CH 11 before taking BI 12

Topics to be covered: lab safety and process of biology, cell biology – compounds, biological molecules, DNA, protein synthesis, enzymes and membranes, and human biology – covered by the systems that carry out digestion, circulation, respiration, excretion, reproduction, and immune nervous function. Students will be assessed based on core and curricular competencies.

CHEMISTRY 11 (CH 11)

Recommended Prerequisite: SC 10 and MA 10

Topics covered: lab safety, introduction to chemistry, properties of substances, introduction to the periodic table, atomic structure, the mole concept, introduction to bonding, introduction to inorganic naming, chemical reactions, solution chemistry and organic chemistry. Students will have the opportunity to complete practical laboratory experiments (techniques and safety), laboratory reports, worksheets and assignments.

CHEMISTRY 12 (CH 12)

Recommended Prerequisite: CH 11 and MA 11, C+ or higher marks in both subjects are strongly advised.

Topics covered: reaction kinetics, equilibrium solubility of ionic substances, acids, bases and salts and oxidation-reduction chemistry. Students will have the opportunity to complete practical laboratory experiments (techniques and safety), laboratory reports, worksheets and assignments.

PHYSICS 11 (PH 11)

Recommended Prerequisite: SC 10 and MA 10, C+ or higher marks in both subjects are strongly advised.

A large part of the course includes problem solving which demands a strong commitment and continuous effort on the part of the student. Success in math 10 or 11 is the one good indicator of success in Physics 11. This course introduces the student to basic kinematics and dynamics (motion and the forces involved in motion). Some of the topics covered include projectile motion, Newton's Laws, and Conservation Laws (energy, momentum, and heat). As time permits, additional topics include wave motion, the properties of light and an overview of Special Relativity and Nuclear Energy.

PHYSICS 12 (PH 12)

Prerequisite: PH 11, B or higher mark is strongly recommended.

This course expands upon the material of Physics 11: kinematics, dynamics, universal gravitation, circular motion, momentum and energy, electricity, magnetism and induction.

SCIENCE FOR CITIZENS 11 (SCIENCE AND TECHNOLOGY 11)

Prerequisite: none

This applied science course is designed for students who are not planning to attend a post-secondary institution. It may be used as a compulsory science course for graduation but is not acceptable for university entrance. It will provide students with opportunities to develop an appreciation of the interactive nature of science and technology, through gaining knowledge of technologies as an application of science in our daily lives, in the workplace, and in global systems. Students will be assessed based on the new core and curricular competencies.

ENVIRONMENTAL SCIENCE 11 (XYLDCE 11)

This applied science course provides students with the opportunity to learn in an experiential way the concepts, skills, and attitudes needed to understand the practices and issues related to the biodiversity of ecosystems, processes and changes in ecosystems, sustainability of ecosystems, and the stewardship and restoration of ecosystems. The ultimate goal of Environmental Science 11 is to learn how humans interact with our environment in our unique ecosystems. A secondary goal is to support students to find viable ways to diminish their ecological footprint by becoming environmentally

responsible students/citizens. Students will be assessed based on the new core and curricular competencies.

Note: This Environmental Science 11 course is worth 4 science credits to satisfy Graduation Elective Requirements.

AP CHEMISTRY 12

AP Chemistry is an intensive course designed for students planning on entering science-based programs at a university/college. It is delivered at a level equivalent to that of a first-year university course. At the end of the course, students should write the Advanced Placement exam. Those who do well (score 4 or 5 on the exam) may apply for course credits at most Canadian and American universities. The course has specific topics covered not covered by the provincial curriculum: thermodynamics, colligative properties, organic reactions, and molecular orbital bonding. **Students planning on taking AP Chemistry should be highly motivated and have received at least a B in Chemistry 11 and will be taking Principles of Math 12 and Chemistry 12 concurrently.**

AP BIOLOGY 12

AP Biology is an intensive course designed for students planning on entering a science program at a university/college. It is delivered at a level equivalent to that of a first-year university course. At the end of the course, students should write the Advanced Placement exam. Those who do well on the latter may apply for course credits at most Canadian and American universities. The course is divided into the three general areas of "Molecules and Cells", "Heredity and Evolution", and "Organisms and Population". The specific topics covered overlap somewhat with the provincial curriculum, but there are several topics unique to the AP Biology course. **Students planning on taking AP Biology should be highly motivated and have received at least a B in Biology 12, Chemistry 12, and Principles of Math 11, or be taking them concurrently.**

ENVIRONMENTAL SCIENCE 12

Recommended Prerequisite: Environmental Science 11

This applied science course provides students with the opportunity to learn in an experiential way the concepts, skills, and attitudes needed to understand the practices and issues related to water systems, global climate systems, sustainable land use, and living sustainability. The ultimate goal of Environmental Science 12 is to learn

how human populations interact with our environment in global systems. A secondary goal is to support students to find viable ways to diminish our ecological footprint by becoming environmentally responsible global citizens who support their society, employers, and governments. Students will be assessed based on the new core and curricular competencies.

Note: This Environmental Science 11 course is worth 4 science credits to satisfy Graduation Elective Requirements.

HUMANITIES (XAT - 08)

Humanities 8 integrates the study of English and Social Studies and is a course that runs for the whole year. It is designed to develop students' skills in reading, writing, listening, and speaking and will emphasize both comprehension and composition skills. Course content includes concentrations on the Middle Ages, the Renaissance, mapping, and basic geographical concepts. A wide range of literature is studied and a workbook supports grammar and composition lessons.

SOCIAL STUDIES 9 (SS 9)

Social Studies 9 is a course that invites students to explore and discover Canada's beginnings and how the European concepts of revolution, nationalism and imperialism have created this country. Students will study these concepts with respect to the revolutions in England, France and the United States. Students will also examine how nationalism and imperialism affected the aboriginals and help establish the roots of Canada as well as the development of Confederation. In studying these concepts, students will be encouraged to develop an appreciation of democracy and what it means to be a Canadian; demonstrate respect for human equality and cultural diversity and to think critically about various situations presented.

SOCIAL STUDIES 10 (SS 10)

The theme of the course is Canada in a changing world. The history component focuses on twentieth century Canada with emphasis on the Canadian political system, social and economic change and Canada's role in world affairs. The geography section while continuing to develop basic geography skills, emphasizes such topics as resource management, population, food production, urbanization and the impact of technology.

EXPLORATIONS IN SOCIAL STUDIES 11

Recommended Prerequisite: SS 10

This is a new course that provides graduation credits for Social Studies and also introduces our Grade 12 electives such as History, Law, Social Justice, and Geography. This course explores themes and topics such as Human Rights, First Nations Studies, Economics, Urban Studies, Philosophy, and Local History. These themes lead to the overarching question: How are "history" and "place" a part of our everyday lives?

HISTORY 12 (HI 12)

Recommended Prerequisite: SS 11

History 12 is a senior elective in Social Studies. It is a twentieth century world history course covering events from 1919 to 1991. The historical chronology and context will be viewed through five major themes: geopolitical events, social changes, economic and technological developments, and the role of the individual in history.

PHYSICAL GEOGRAPHY 12 (GEO 12)

Recommended Prerequisite: SS 11

Physical Geography 12 is a course with emphasis on such topics as the earth's surface, landforms, soils, vegetation, land use, climate and weather. This course will also offer a brief introduction to a variety of human geography concepts such as: behavioural and spatial geography as well as urban geography.

SOCIAL JUSTICE 12 (SJ 12)

Recommended Prerequisite: SS 11

Social Justice 12 is a provincially approved course. The aim of Social Justice 12 is to raise students' awareness of social injustice, to enable them to analyze situations from a social justice perspective, and to provide them with knowledge as well as ethical and philosophical reasoning skills by exploring issues of injustice in a local and global context. Students will examine inequality and injustice based on various social factors, and will work to invoke change to become ethical and socially responsible global citizens. Topics include: media, consumerism, propaganda, child labour, homophobia, women's rights, racism, global issues, and environmentalism. Social Justice 12 promotes the pursuit of social justice as an important responsibility for all, and provides opportunities for students to examine models of social injustice in their community. Areas of focus will include: genocide, poverty, globalization and human rights.

LAW 12 (LAW 12)

Recommended Prerequisite: SS 11

Law 12 includes an introduction to the Canadian legal system with emphasis on criminal law, family law, and contract law. The Canadian court system, torts, wills and estates, and the criminal justice system are part of the course. In order to develop an understanding of the court system, students will observe both provincial and federal courts and conduct a mock trial. There will be guest speakers including the police, lawyers, and offenders.

Technology and Trades Education

APPLIED SKILLS 8

This is an exploratory course in which all Grade 8 students experience the applied skills subjects: Marketing, Home Economics, and Technology education. Students will spend one-third of a semester in each of these curricular areas.

APPLIED TECHNOLOGY AND ROBOTICS – Level 1

This course is open to all students in Grades 9 to 12.

Applied Technology is a project based course which incorporates learning through design and building. The projects assigned will be based on the theme of robotics. The course will take place in a workshop and the CADD Lab. Students will be taught how to design and build a variety of projects that will allow them to participate in a series of competitions that will demonstrate the effectiveness of their solution. Students will have a chance to experience working with wood, sheet metal, 3D printers, micro-controllers and a wide variety of tools.

APPLIED TECHNOLOGY AND ROBOTICS – Level 2

Recommended Prerequisite: Applied Tech Level 1 or Teacher approval

In Applied Technology Level 2, students will continue to learn about robotics and related structures. Students will be introduced to more advanced concepts and be presented with additional difficulties when designing a solution for their problem-solving projects. Level 2 incorporates all of the skills learned in Level 1 and seeks to add additional learning through modern technologies (coding, microcontrollers, automated vehicles such as drones, RC cars, etc.).

APPLIED TECHNOLOGY AND ROBOTICS – Level 3

Recommended Prerequisite: Applied Tech Level 2 or Teacher Approval

In Level 3, students will continue to create projects and incorporate all of the skills they have learned from previous experiences. Level 3 students will be introduced to additional skills required for advanced projects which are specific to Engineering, Architecture or Industrial Design. Students will be tasked to solve a personal inquiry problem through the creation of a project that will allow them to improve their problem solving, creativity, and ability to experiment. Potential projects include: arcade building, scaled building prototypes and advanced robotics.

CADD LEVEL 1: DRAFTING AND ANIMATION

This course is open to all students in Grade 9 to 12.

This is an introductory course in Computer Assisted Drafting, Design and Animation. The projects are fun and practical. Using the schools Windows computer lab, you will learn to use professional software such as AutoCAD, 3DS Max, and Inventor. You will also be using the 3D printer to create models of your designs and creations. This is a great course for if you are interested in careers in Architecture, Computer Animation, Graphic Design, Engineering or Construction.

CADD LEVEL 2: DRAFTING AND ANIMATION

Recommended Prerequisite: CADD Level 1 or Teacher Approval

In this course students will continue their studies in CADD with more advanced projects in using AutoCAD and 3DS Max. This course is divided into 2 parts. During Part 1, you will learn more about technical drawing and animation. In Part 2, you will choose to do further work in either Computer Animation, or Architecture. In Computer Animation, your assignments typically include creating a computer generated city, a walk-through of a room, an advertising animation, and telling a short story. In Architecture, you will create a house design and build a scale model to show this design.

CADD LEVEL 3: ANIMATION OR ARCHITECTURE

Recommended Prerequisite: CADD Level 2 or Teacher Approval

In this course you will choose to work on advanced projects in either in Animation or Architecture.

In the ANIMATION course, you will continue to work on projects that will advance your skills in Computer Animation and Computer Modelling. Students will create animations, computer models, and video presentations using 3DS Max, Adobe Premiere, and Adobe Photoshop. Students in this course will gain hands on experience related to computer animation, computer gaming, television, and movie production careers.



Technology and Trades Education

In the ARCHITECTURE course you will be using advanced AutoCAD techniques to develop a full set of Architectural drawings for a home of your own design, and then create a scale model of your home. The skills learned in this course are directly beneficial for students entering Architectural and Interior Design, Construction, and Engineering.

CADD LEVEL 4: ANIMATION OR ARCHITECTURE

Recommended Prerequisite: CADD Level 3 or Teacher Approval

This course is intended for advanced students who want to design their own CADD projects and work at a self-paced rate. In consultation with the teachers, you will continue working in your area of interest (Engineering Design, Animation or Architecture) and further develop your skills to a more professional standard. You will also be expected to create scale models of your projects, and/or 3D Printed models and assemblies.

METAL ART LEVEL 1 (JEWELRY AND METALWORK)

This is open to all students in Grades 9 to 12.

Metal Art is a project based course where students learn how to make constructed and cast jewelry, and creative metal structures. Basic skills such as sawing, piercing, bending, copper enameling and casting will be covered. Evaluation will be based on knowledge of procedures covered, project quality, variety and originality of designs.

METAL ART LEVEL 2 (JEWELRY AND WELDING)

Recommended Prerequisite: Metal Art Level 1 or Teacher Approval

In Metal Art Level 2, you will continue to work on projects of constructed and cast jewelry pieces, and the creative use of metal forms. You will also begin to work on larger projects using sheet metal, welding, machining and casting in aluminum. Evaluation will be based on knowledge of procedures covered, project quality, variety and originality of designs.

METAL ART LEVEL 3 (MACHINING AND SHEET METAL)

Prerequisite: Metal Art Level 2 or Teacher Approval

In Metal Art Level 3, you will work on advanced projects and focus on designing and building projects of your own. Project examples include Jewelry, such as rings, pendants and earrings; Outdoor Art such as lawn ornaments, signs, and structures; Functional Art, such as picture frames, jewelry boxes, and wall hangings. Evaluation will be based on knowledge of procedures covered, project quality, variety and originality of design.

WOODWORKING LEVEL 1

This is open to all students in Grades 9 to 12.

Woodworking Level 1 is an introductory course in woodworking. The course will cover safety in the workshop, proper tool and equipment handling. Students will build a foundation of safe work habits through learning the fundamentals of hand tools and basic machine operations. Students will have an opportunity to build a variety of projects and will learn to apply the design process, reading and developing working drawings, measurement, cost and layout of material. Level 1 Woodworkers will build a variety of smaller projects in order to build confidence with tools and equipment that will lead to future successes.

WOODWORKING LEVEL 2

Recommended Prerequisite: Woodworking Level 1 or Teacher Approval

In Woodworking Level 2, students will be tasked with continuing their safe work habits and learn advanced woodworking techniques to create complex projects. Students in Level 2 can expect to learn advanced joinery (mortise and tenon), additional finishing techniques (spray stains), maintenance of tools (sharpening), and theory of design (ergonomics). Level 2 students are expected to communicate their designs through working drawings, and re-visit their projects during the design cycle to create larger scale projects, such as furniture and household accessories.

WOODWORKING LEVEL 3

Recommended Prerequisite: Woodworking Level 2 or Teacher Approval

Students in this course have demonstrated strong technical skills when working with wood and would like to continue their studies in this class to increase their mastery of skills and techniques. Students in Level 3 are expected to design their own projects on larger scales, and apply the design process to each stage of creation. Level 3 students will also be taught advanced techniques which may be applied in industry careers such as construction, joinery, or carpentry.

POWER MECHANICS LEVEL 1

This course is open to all students Grades 9 to 12.

Power Mechanics is an introduction to engine theory and applications in modern modes of transportation. Students will be taught the fundamentals of working with small engines in the disassembly and re-assembly of a 4-stroke

Technology and Trades Education

engine. In addition to technical skills, students will learn theory behind the operation of small engines and their applications to modern appliances and vehicles. Level 1 students will build their skills and understanding of movement beginning with a CO2 car challenge, and progressing their knowledge through the reconstruction of a small engine. Advanced students will challenge themselves through the creation of a major design project, through go-karts, drones, etc. Students that need additional practice will have the opportunity to re-build lawn mowers and mini bikes.

POWER MECHANICS LEVEL 2

Recommended Prerequisite: Power Mechanics Level 1 or Teacher Approval

Power Mechanics Level 2 seeks to improve theoretical knowledge, and technical understanding of small engines in preparation for students to enter the automotive courses. Students will be exposed to advanced techniques in troubleshooting 4-stroke engines, and complex applications of these engines in practical projects.

Level 2 students often have their own inquiries about modern technologies and seek to answer these questions through improving an advanced Level 1 project or starting their own advanced project (go-kart, drone, etc.). Through this project, students are expected to work safely in the shop, and will be taught to build upon their skillsets when working with tools and equipment.

AUTOMOTIVE TECHNOLOGY LEVEL 1 (BASIC CAR CARE)

This course is designed to accommodate Grade 10 to 12 students with little or no practical experience in the automotive area. The automotive theory includes engine operation, exhaust and brake systems, power train, as well as steering and suspension components. The course will take students through the different functions of automobiles in simple terms so students with no previous car knowledge can feel at home. The course will also include discussions on car buying, emergency roadside service, and calculating car expenses. Service procedure demos include changing oil and filter, installing and balancing tires, grease jobs,

wheel bearing repacking, spark plug service, compression testing, brake repair, engine timing, headlight adjustment as well as a number of other service related items.

AUTOMOTIVE TECHNOLOGY LEVEL 2

Recommended Prerequisite: Automotive Technology Level 1 or Teacher Approval

The topics covered include a condensed review of Level 1 theory, the study of auto transmissions, emission control, tune-ups, scope analysis and advanced auto electrical.

Students will be taught additional skills and techniques and given additional shop time to enhance student experience on working with difficult vehicles from a variety of time eras and countries. Students in Level 2 will often partake in a partial or full re-build of a shop car (subject to availability). During the re-build, students will practice and improve upon the practical skills they have learned in level 1 and apply advanced techniques which will be covered in Level 2.

AUTOMOTIVE TECHNOLOGY LEVEL 3

Recommended Prerequisite: Automotive Technology Level 2 or Teacher Approval

This course provides the mechanically-gifted student additional shop time with a review of Level 2 theory and further study of modern electrical and diagnostics systems. Senior students are often tasked with leading a re-build on a shop car (subject to availability). Senior level students



with a BC Class 7 (N) License and access to a vehicle are encouraged to seek approval and apply their knowledge of maintenance, tune-ups and part replacements to improve their own vehicles.



**RICHMOND
VIRTUAL SCHOOL**



Courses Offered by RVS

Biology 11, 12
Calculus 12
Cybersecurity 11, 12
Chemistry 11, 12
Career Life Education 10
Dance 10-12
Economics 12
English 11, 12
Foods and Nutrition L3, L4
Foundations and Pre-Calculus 10
Foundations of Math 11, 12
French 11, 12
Geography 12
Geometry 12
History 12
History of Math 11
Mandarin 11, 12
Outdoor Education 11, 12
Physics 11, 12
Pre-Calculus Math 11, 12
Psychology AP12
Social Studies (Explorations) 11
Statistics 12
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 extending the sky program to include grade 8 students in our new program called **RAIL**. See our website for more information on the **SKY** and **RAIL** programs as well as our online courses.



SKY NO LIMITS
@RICHMONDVIRTUALSCHOOL.CA

Register at

RichmondVirtualSchool.ca

Contact us: rvs@sd38.bc.ca

604-668-6371



RAIL | RICHMOND ACADEMY *of*
INNOVATIVE LEARNING



CAREERPROGRAMS

SCHOOL DISTRICT NO. 38 (RICHMOND)

A Future Without Limits



SD38 CAREER PROGRAM OFFERINGS



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@sd38careers



RICHMOND
SCHOOL DISTRICT NO. 38

I. SD38 Youth Train in Trades (YTIT) Programs

BENEFITS TO PARTICIPATING IN A DISTRICT YOUTH TRAIN IN TRADES PROGRAM:

- ❑ **TUITION PAID** (by Richmond School District #38 at a savings of \$2500 - \$4000)
- ❑ **Early admission** to post-secondary studies while in high school
- ❑ Earn **TRIPLE CREDITS** for
 - high school – courses count as grade 12 electives
 - post-secondary school – courses count as university/college credit
 - Industry Training Authority (ITA) – credit for Level 1 technical training
- ❑ Gain a **competitive advantage** – earning potential right out of high school
- ❑ **Earn Work-Based Hours** toward trade certification by taking a trades program



WHO SHOULD APPLY... ATTRIBUTES AND QUALIFICATIONS OF APPLICANTS:

- ❑ Prior ADST/Tech Ed experience an asset (comfortable using tools and enjoy hands-on work)
- ❑ Demonstrated level of maturity suitable to a post-secondary environment
- ❑ Physically able to work in a trades environment
- ❑ Strong English language skills to communicate and interpret information and technical language
- ❑ Strong Math and Science skills for solving problems and making decisions
- ❑ Driver's license is an asset (a must in some trades)
- ❑ Has not achieved Ministry of Education graduation prior to program registration
- ❑ Must complete program prior to reaching the age of 20 (returning grads may be considered)

APPLICATION PROCESS AND WHEN TO APPLY:

- ❑ Pick up an application from your counselling area (**see Career Programs display board**) OR download from the District Career Programs Office website (<http://careerprograms.sd38.bc.ca>)
- ❑ **QUESTIONS? Contact the Career Programs Office staff**
- ❑ Submit completed application to the District Career Programs Office by the due date listed on the front of the application form (**1st due date:** Late February/Early March **2nd due date:** Early April)
- ❑ Students are advised to apply early, as there are limited seats for these programs
- ❑ Qualifying applications will receive an invitation to attend an interview
- ❑ NOTE: Quality of applications will be assessed based on the following criteria: academic achievement, related course work, work habits, attendance/punctuality, overall behavior and attitude

COST OF YOUTH TRAIN IN TRADES PROGRAMS:

- ❑ Post-secondary tuition is covered by the Richmond School District – a significant savings
- ❑ Students are responsible for all other associated program fees, books, equipment, tools and consumable items. These are outlined on the second page of the Youth Train in Trades application form.

*****Due dates for this Post-Secondary program on page two of YTIT application form*****

II. SD38 Youth Work in Trades (YWIT) Programs

QUALIFICATIONS FOR YOUTH WORK IN TRADES:

- ❑ **Paid employment in a recognized trade**, either full or part-time
- ❑ Students must be **15-19 years old**
- ❑ Have a **certified supervisor** (Certificate of Qualification, Red Seal, or Journeyperson)
- ❑ Check out www.itabc.ca to see the 150 trades that are recognized in BC (and qualify for YWIT)



BENEFITS OF DISTRICT YOUTH WORK IN TRADES PROGRAM:

- ❑ Student is **registered as an apprentice** through the ITA
- ❑ Paid work hours count toward **Level 1 trade certification**
- ❑ Student is **sponsored** by employer
- ❑ **Earn up to 16 credits** (four courses) toward high school graduation
- ❑ May qualify to **earn a \$1000** Ministry of Education award

III. Other District Partnership Programs for Richmond SD38 Students

Applications for the following opportunities are available through your school counsellor, career advisor or the SD38 Career Programs Office [display board at your school](http://careerprograms.sd38.bc.ca). Also check out (<http://careerprograms.sd38.bc.ca>). **DUE DATES for all applications can be found on this website or through your counsellor.**



Program and Application Due Dates (Approximate)	Overview of Program
RCMP Youth Squad Application Due Date: End of September (See counsellor or Career Programs display board/website for specific date.)	Description: Spend 8 consecutive Thursday evenings at the Richmond RCMP Detachment learning about careers in policing and several other emergency services, including the Canadian Military, BC Ambulance Service, Richmond Fire Rescue, Canadian Coast Guard and Canadian Border Services Agency. (Must attend all 8 evenings. Last night is a graduation ceremony for students and their parents.) Program Cost: \$80.00 (includes snacks, t-shirt, hat and program graduation) Program Timeline: 8 consecutive Thursdays (Mid-October thru Early December) Who Can Apply: Students in Grades 10-12 (Preference given to those in grades 11/12)
RCMP Youth Academy Application Due Date: End of November (See counsellor or Career Programs display board/website for specific date.)	Description: For those interested in a career in policing or law enforcement, this is an intense 9-day (and night) career simulation opportunity that takes place at Camp Stillwood. Students participate in theory and practical sessions, through role-play and various team work activities, including drill practice. Run by RCMP staff, the Academy challenges students, both mentally and physically, giving them confidence and practical skills that will last a lifetime. Program Cost: Approximately \$900.00 (includes accommodation, training and food for duration) Program Timeline: 9 days late March/early April (overlaps with Easter weekend) Who Can Apply: Students in Grades 11 or 12
Skilled Trades Exploration Program (STEP) Application Due Date: Mid-end of May (See counsellor or Career Programs display board/website for specific date.)	Description: In partnership with our SD38 maintenance yard employees (CUPE 716), students have a brief introduction to working in the skilled trades. They select their trade preference (see choices on application), and work for one week in that area. In the fall, look for posters and listen for announcements at your school. NEW: Must be taking a Tech Ed (ADST) course. Program Cost: Students purchase own steel-toed boots Program Timeline: One week of work between April – early June Who Can Apply: Students in Grades 11 or 12
LinK38 (Learning in Kwantlen) Application Due Date: May 2019 (See counsellor or Career Programs display board/website for specific date.)	Description: Gr. 11 students apply for this dual credit program directly through the SD38 Career Programs Office only (not KPU). Courses are taken at Kwantlen Polytechnic University (KPU) course at the Richmond Campus. Course taken MUST directly correspond to student's post-secondary career transition pathway. Application must also be supported by related grade 11/12 courses/electives available at applicant's school. Link38 course offerings vary each year. Course counts for post-secondary and for high school credit (4 credits). Program Cost: Students purchase course books; SD38 covers tuition cost of course Program Timeline: One-night per week from September – December (usually 4-7pm). Day of week is dependent on course taken. Who Can Apply: Students in Grades 11 who will be entering grade 12 in the next school year
Camp Ignite Application Due Date: May Check for specific date at www.campignite.ca	Description: This 4-day camp is open to girls and provides them with an introduction to a career in firefighting. Firefighters will teach candidates about fitness, nutrition, health and teamwork as they relate to this career area. This program is sponsored by local fire departments and organizations. Program Cost: Full cost is covered by local fire halls and sponsor organizations Program Timeline: Usually second week in August (dates TBD) Who Can Apply: Girls aged 16-18. Students apply directly through www.campignite.ca
Roofing 3-Day Training Program (Through the Roofing Contractors Association of BC – RCABC) Application Due Date: End of May (See counsellor or Career Programs display board/website for specific date.)	Description: This 3-day training program will prepare students for a job in the roofing industry. In three days, students get Work-SafeBC approved Fall Protection training, WHMIS certification, Ladder Safety training, Construction Site Safety training, and an introduction to the roofing industry. At the conclusion of the program, students will be registered as apprentices with the RCABC and will be matched with an RCABC employer. Apprenticeship training will be offered. Find details on website: www.rcabc.org Program Cost: Approximately \$200 + cost of hard hat, steel-toed boots and leather work gloves Program Timeline: End of June or first week in July (dates TBD) Who Can Apply: Submit application to SD38 Career Programs Office.

IV. Work Experience (WEX) 12A and 12B

- ❑ Students should check the availability of these **school-based courses** with their school counsellor. If offered, students taking these complete 100-120 hours (per course) of volunteer work in their focus area of interest.
- ❑ Upon successful completion, students earn 4 credits towards graduation for each of these Ministry of Education courses.

APPLYING FOR YOUTH TRAIN IN TRADES PROGRAMS

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

PLUMBING

Day 2's (Sept. - June @ Palmer Secondary, including 4 weeks at Piping Industry College)

Through this ITA foundation program, students receive Level 1 technical training in this trade. Students will apply their knowledge by learning how to plan, design, install & service various types of piping systems. They also learn how to use industry specific tools and machinery. Students attend the UA Piping Industry College for four weeks during the program.

Upon successful completion of this program, students will achieve technical training credit for the first of four levels towards Red Seal certification and can seek employment as apprentices.



ENTRY REQUIREMENTS

- Any Math 11/12 AND a Language Arts 11
- Physically able (tight spaces, moving heavy equipment)
- Successful result on district math assessment

CREDITS AND CERTIFICATION EARNED

- Pass course work and ITA exam (blended) and earn Level 1 technical training certification (Certificate of Completion)
- Receive 16 credits (4 courses) at Grade 12 level

PROFESSIONAL COOK 1

Day 2's (Sept. - June @ Richmond Secondary) + subsequent July @ VCC

This ITA foundation program offers students an opportunity to receive Level 1 technical training in this trade. Students perform all phases of kitchen activities including the preparation and presentation of vegetables, soups, sauces, meat, fish and poultry, cold kitchen items; desserts, baking, pastry; basic menu planning/costing as well as knowledge of safety, sanitation and food storage, and customer relations. Students attend MANDATORY four weeks at VCC in July (includes ITA exams).

Upon successful completion of this program, students will achieve technical training credit for the first of three levels towards Red Seal certification.



ENTRY REQUIREMENTS

- Any Math 11/12 AND a Language Arts 11
- Able to work in a fast-paced, multi-tasking environment
- Successful result on district math assessment
- FoodSafe Level 1 Certification (can complete in summer prior to program start) / Foods coursework an asset

CREDITS AND CERTIFICATION EARNED

- Pass PC1 ITA exam, practical exam and course work to earn Level 1 technical training certification (Certificate of Qualification)
- Receive 16 credits (3 Cook courses + 1 WEX course) at Grade 12 level
- Any hours worked in the trade are registered with the ITA and go toward PC1 Level 1 completion

AIRCRAFT MAINTENANCE ENGINEER – M

Full-time @ BCIT – Start date varies (see below)**

ONLY CURRENT GRADE 11 OR 12 STUDENTS MAY APPLY FOR THIS PROGRAM.

An Aircraft Maintenance Engineer (AME) is responsible for the release (certification) of an aircraft after maintenance, inspection, repair or modification. This is an occupation requiring a high degree of responsibility and skill. Some of the skills learned include certifying airworthiness of aircraft, troubleshooting mechanical/electrical systems and adjusting and repairing systems according to strict specifications.

The program consists of 16 continuous months with short breaks between terms. SD38 covers tuition for the first term (4 months) ONLY and students are responsible for the tuition for terms 2, 3 and 4 (months 5-16).



ENTRY REQUIREMENTS

- Any Math 11/12 (min 60%) AND a Language Arts 12
- Must have Physics 11 (SD38 requirement)
- Successful result - BCIT Mechanical Reasoning Trades pre-entry test
- Recommend Auto Mechanics 11, any Tech Ed 11
- Good colour vision, and interest in mechanics
- Participation in Air Cadets a plus

CREDITS AND CERTIFICATION EARNED

- Receive credit for Term 1 (of 4) toward AME certification and 16-20 secondary school Grade 12 credits
- NOTE: Once registered, student must commit to complete this 64 consecutive-week (16 month) program. AME license will be granted by Transport Canada when required work experience is achieved and applicant reaches age 21.
- **Check with Career Programs Office for program start date (likely a fall start date)

AUTO COLLISION REPAIR TECHNICIAN

Full-time Semester 2 @ VCC (Broadway) – January - August

This ITA foundation program leads to a Certificate of Completion for Level 1 technical training in this trade. The program uses modern equipment and techniques to train students in a wide range of skills appropriate to this industry. The VCC auto body shop is outfitted with computer-guided frame straighteners, laser measuring systems, and the latest welding equipment. More than 75 per cent of the program is spent working on the auto body shop floor. Projects are done in small teams that simulate the workplace.

Upon successful completion of this program, students will achieve technical training credit for the first of three levels towards Red Seal certification and can seek employment as apprentices.



ENTRY REQUIREMENTS

- Any Math 11/12 AND a Language Arts 12
- Relevant ADST (Tech Ed) course work
- Mechanical aptitude, interest and experience
- Successful result on district math assessment

CREDITS AND CERTIFICATION EARNED

- Pass course work to earn Level 1 technical training certification (Certificate of Completion) + credit for 625 work-based hours
- Receive 24 credits (6 courses) at Grade 12 level
- Work experience practicum during program (students find own job)

For additional details about each program: View our program flyers and videos at: <http://careerprograms.sd38.bc.ca> •

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AUTO REFINISHING PREP TECHNICIAN

Full-time Semester 2 @ VCC (Broadway) – January - August

This ITA foundation program leads to a Certificate of Completion for Level 1 technical training in this trade. This involves working on the surfaces of motor vehicles, primarily in the preparation for restoring vehicle finishes once body work has been completed and prior to painting. Some of the duties include: removing layers of sub-coating; mixing undercoats; preparing metal surfaces for painting by spot filling, sanding, and masking; applying primers, and primer surfaces; and cleaning and polishing painted surfaces. More than 75 percent of the program is spent working on the auto body shop floor.

Upon successful completion of this foundation program, students will achieve credit for Level 1 Technical Training towards Red Seal certification and can seek employment as apprentices.

ENTRY REQUIREMENTS

- Any Math 11/12 AND a Language Arts 12
- Relevant ADST (Tech Ed) course work an asset
- Good manual dexterity, respiratory health and normal colour vision
- Good hand-eye coordination, eyesight, and line, form & depth perception
- Successful result on district math assessment

CREDITS AND CERTIFICATION EARNED

- Pass course work to earn Level 1 technical training certification (Certificate of Completion) + credit for 450 work-based hours
- Receive 16 credits (4 courses) at Grade 12 level
- Work experience practicum during program (students find own job)



BAKING AND PASTRY ARTS

*Full-time Semester 1 @ VCC (Pender) – August - January

*Must apply by first deadline (END OF FEBRUARY IS PREFERRED)

This ITA foundation program leads to a Certificate of Completion for Level 1 technical training in this trade. Bakers prepare doughs, batters and other ingredients leading to the production of breads, cakes, pies, cookies and other baked goods. **Applicants must participate in a one-week practical interview in the VCC kitchen in March.** Interviews are the first week in May with the VCC baking department. (Program starts in the summer between grades 11 and 12.)

Upon successful completion of this foundation program, students will achieve technical training credit for the first of three levels towards Red Seal certification and can seek employment as apprentices.

ENTRY REQUIREMENTS

- Any Math 11/12 (minimum "C") AND a Language Arts 11 or 12
- FoodSafe Level 1 Certification + 1 week practical interview
- Successful result on math assessment + VCC instructor interview
- Strong attendance / punctuality record; can stand for long time
- Completion of ADST (foods) courses

CREDITS AND CERTIFICATION EARNED

- Pass ITA exam and course work to earn Level 1 technical training certification (Certificate of Completion) + credit for 900 work-based hours
- Receive 28 credits (7 courses) at Grade 12 level



CARPENTRY (FRAMING AND FORMING)

Full-time Semester 2 @ BCIT (Burnaby) – February - July

This ITA foundation program leads to a Certificate of Completion for Level 1 technical training in this trade. Carpenters construct, renovate and repair structures made of wood, steel, concrete and other materials. While conforming to plans, specifications and building codes, they may work on residential, civil, institutional, commercial and industrial projects. Training prepares students for entry-level employment in the carpentry trade. Basic theory and related information along with hands-on shop practice enable students to become competent in basic carpentry tasks.

Upon successful completion of this foundation program, students will achieve technical training credit for the first of four levels towards Red Seal certification and can seek employment as apprentices.

ENTRY REQUIREMENTS

- Any Math 11/12 AND a Language Arts 12
- Must be able to work at heights and in adverse weather
- Relevant ADST (Tech Ed) course work an asset (e.g. woodwork)
- Successful results on math and reading assessments

CREDITS AND CERTIFICATION EARNED

- Pass course work to earn Level 1 technical training certification (Certificate of Completion) + credit for 450 work-based hours
- Receive 16 credits (4 courses) at Grade 12 level



CONSTRUCTION ELECTRICIAN

Full-time Semester 2 @ BCIT (Delta Satellite Campus) – February - July

This ITA foundation program leads to a Certificate of Completion for Level 1 technical training in this trade. Construction Electricians plan, design, assemble, install, alter, repair, inspect, verify, commission, connect, operate, maintain and decommission electrical systems. Electrical systems provide heating, lighting, power, alarm, security, communication and control in residential, commercial, institutional, industrial, transportation, marine and entertainment environments.

Upon successful completion of this foundation program, students will achieve technical training credit for the first of four levels towards Red Seal certification and can seek employment as apprentices.

ENTRY REQUIREMENTS

- Language Arts 11/12 (min 67%) AND Physics 11 (min 67%)
- Any Math 11 (min 60%) + successful results on math and reading assessments
- Relevant ADST (Tech Ed) course work an asset (e.g. electrical)
- Should have good hearing, eyesight and hand/eye coordination

CREDITS AND CERTIFICATION EARNED

- Pass course work to earn Level 1 technical training certification (Certificate of Completion) + credit for 350 work-based hours
- Receive 20 credits (5 courses) at Grade 12 level





JOINER (CABINETMAKER)

Full-time Semester 1 or 2 @ BCIT (Burnaby)

This ITA foundation program leads to a Certificate of Completion for Level 1 technical training in this trade. Joiners may work in a wide variety of specialties such as cabinetmaking, architectural woodwork (millwork), furniture making, boat interiors and store fixture manufacturing. They use manual and CAD layout or manual and CNC/CAM machines to assemble, install and finish articles that are fabricated with wood, plastic and/or other materials, and are intended to be used as architectural woodwork, millwork and furniture.

Upon successful completion of this foundation program, students will achieve technical training credit for the first of four levels towards Red Seal certification and can seek employment as apprentices.

ENTRY REQUIREMENTS

- Any Math 11 AND a Language Arts 12
- Proven mechanical aptitude, detail oriented and good physical shape
- Completion of ADST (Tech Ed); Woodwork course an asset
- Successful result on math and reading assessments

CREDITS AND CERTIFICATION EARNED

- Pass ITA exam and course work to earn Level 1 technical training certification (Certificate of Completion) + credit for 475 work-based hours
- Receive 24 credits (6 courses) at Grade 12 level



MASONRY (if offered by KPU)

Full-time Semester 2 @ KPU (Cloverdale) – February - June

Through this ITA foundation program, students learn to work with brick, concrete and glass block, terra cotta and stone. Masonry involves a lot of physical and outdoor work, using power and hand tools, and material moving equipment. Students will also learn to read blueprints, building codes, industry safety requirements and guidelines for handling hazardous materials. Practical skills are enhanced as they perform outdoor projects utilizing power and hand tools, moving material, constructing simple and ornate walls.

Upon successful completion of this program, students will achieve technical training credit for the first of three levels towards Red Seal certification and can seek employment as apprentices.

ENTRY REQUIREMENTS

- Any Math 11/12 (min 67%) AND a Language Arts 12 (min 67%)
- Good overall health and physical strength for lifting
- Successful result on district math assessment
- Completion of ADST (Tech Ed) courses an asset

CREDITS AND CERTIFICATION EARNED

- Pass ITA exam, practical exam and course work to earn Level 1 technical training certification (Certificate of Completion) + credit for 400 work-based hours
- Receive 16 credits (4 courses at Grade 12 level)



METAL FABRICATION

Full-time Semester 2 @ BCIT (Burnaby) – February - July

The Metal Fabrication (Fitter) foundation program, leads to a Certificate of Completion for Level 1 technical training in this trade.

Using ferrous and non-ferrous metals, fabricators deal with the selection, layout, shearing, cutting, punching, drilling, forming, fitting and welding of steel plates and structural steel shapes into products for the forest, mining, construction, transportation and agricultural industries. Typical projects that involve metal fabricators include bridges, buildings, hoppers, conveyors, towers, cranes, heavy-mining equipment, logging equipment, and ship parts and equipment.

Upon successful completion of this foundation program, students will achieve technical training credit for the first of three levels towards Red Seal certification and can seek employment as apprentices.

ENTRY REQUIREMENTS

- Any Math 11/12 AND a Language Arts 12
- Successful results on math and reading assessments
- Relevant ADST (Tech Ed) course work an asset
- Good hand/eye coordination and physical condition an asset

CREDITS AND CERTIFICATION EARNED

- Pass course work to earn Level 1 technical training certification (Certificate of Completion) + credit for 450 work-based hours
- Receive 20 credits (5 courses) at Grade 12 level



MILLWRIGHT/INDUSTRIAL MECHANIC

Full-time Semester 2 @ KPU (Cloverdale) – February - July

Through this ITA foundation program, students are provided opportunities to apply the practical skills taught in hand, power and machine tool use, and perform various shop projects in stationary industrial machinery and mechanical equipment maintenance, troubleshooting, overhauling and installation. Students will be trained in the use of lathes, milling machines and grinders to make customized parts or repairs.

Upon successful completion of this program, students will achieve technical training credit for the first of four levels towards Red Seal certification and can seek employment as apprentices.

ENTRY REQUIREMENTS

- Any Math 11/12 AND a Language Arts 12
- Proven mechanical and mathematical aptitude
- Enjoys investigation, analysis and problem solving
- Successful result on district math assessment
- Completion of ADST (Tech Ed); Physics 11 course an asset

CREDITS AND CERTIFICATION EARNED

- Pass course work to earn Level 1 technical training certification (Certificate of Completion) + credit for 425 work-based hours
- Receive 20 credits (5 courses at Grade 12 level)





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PAINTING AND DECORATING (COMMERCIAL)

6 weeks at FTI (Surrey) – Mid-June - July

This ITA Level 1 technical training program provides an overview of the painting industry. Students are introduced to common coatings, surface preparation techniques, and proper use of the tools and materials used in this trade, including airless spray. An extensive safety program includes respirator training, fall protection, ladder and scaffold training, elevated platform training and WHMIS.

Upon successful completion of this foundation program, students will achieve technical training credit for the first of three levels towards Red Seal certification and can seek employment as apprentices.



ENTRY REQUIREMENTS

- Any Math 10/11 AND a Language Arts 12
- Good colour vision, and interest in mechanics
- Ability to stand for lengths of time and work at heights

CREDITS AND CERTIFICATION EARNED

- Pass ITA exam and course work to earn Level 1 technical training certification (Certificate of Completion)
- Receive 4 credits (1 course) at Grade 12 level

MOTORCYCLE TECHNICIAN

Full-time Semester 2 @ BCIT (Burnaby) – January - July

This ITA foundation program provides students the theoretical knowledge and practical skills to enter the trade. It also provides the hands-on training to perform service operations such as new unit assembly and full service; repair of electrical components; and service of chassis, wheels, suspensions, drives, and accessories. Students diagnose, repair, adjust and replace engines, drive trains, suspension and electrical systems on small to medium sized power products.

Upon successful completion of this foundation program, students will achieve technical training credit for the first of four levels towards Red Seal certification and can seek employment as apprentices.



ENTRY REQUIREMENTS

- Any Math 11/12 AND a Language Arts 12
- Successful results on math and reading assessments
- Relevant ADST (Tech Ed) course work an asset
- Good hand/eye coordination and physical condition an asset

CREDITS AND CERTIFICATION EARNED

- Pass ITA exam and course work to earn Level 1 technical training certification (Certificate of Completion) + credit for 300 work-based hours
- Receive 16 credits (4 courses) at Grade 12 level

SHEET METAL

Full-time Semester 1 @ BCIT (Burnaby) – September - January

This ITA foundation program leads to a Certificate of Completion for Level 1 technical training in this trade. Students are exposed to common welding processes and learn how to fabricate, assemble, alter and install sheet metal. Areas of work may include HVAC (Heating, Ventilating and Air Conditioning) ductwork, industrial and residential sheet metal work. Work is also found with hospital and kitchen equipment (stainless steel), industrial exhaust systems, industrial sheet metal work, and roofing and flashing (copper, aluminum, stainless steel and galvanized iron).

Upon successful completion of this foundation program, students will achieve technical training credit for the first of four levels towards Red Seal certification and can seek employment as apprentices.



ENTRY REQUIREMENTS

- Any Math 11/12 AND a Language Arts 12
- Successful results on math and reading assessments
- Relevant ADST (Tech Ed) course work an asset
- Good physical condition and able to work at heights

CREDITS AND CERTIFICATION EARNED

- Pass course work to earn Level 1 technical training certification (Certificate of Completion) + credit for 350 work-based hours
- Receive 20 credits (5 courses) at Grade 12 level

WELDING

Full-time Semester 2 @ KPU (Cloverdale) – February - August

Through this ITA foundation program, students will learn skills and knowledge that prepare them for employment at the entry level. They develop skills to work safely and effectively using a variety of welding processes and procedures. This program prepares graduates for work with companies that manufacture structural steel and plate work, boilers, heavy machinery, and other ferrous and non-ferrous metal products.

Upon successful completion of this program, students will achieve technical training credit for the first of four levels towards Red Seal certification and can seek employment as apprentices.



ENTRY REQUIREMENTS

- Any Math 11/12 AND a Language Arts 12
- Mathematical aptitude, detail-oriented and good eye-hand coordination
- Successful result on math assessment + KPU instructor interview
- Completion of ADST (Tech Ed) courses an asset

CREDITS AND CERTIFICATION EARNED

- Pass ITA exam to earn Level 1 technical training certification (Certificate of Completion) + credit for work-based hours
- Receive 24 credits (6 courses) at Grade 12 level

Contact the Career Programs Office at 604-668-6000 ext 3766 or email careerprograms@sd38.bc.ca • Visit your school counsellor or career information advisor.

District Career Programs Office Team

- District Coordinator – Career Programs: **Terri Lockhart**
- District Facilitator – Career Programs: **David Henderson** (1/2 time)
- District Facilitator – Career Programs: **Peter Thackwray** (Day 2's)
- District Facilitator – Work in Trades: **Harrison Brown**
- Administrative Assistant – Career Programs: **Suzanne Mah**

Questions for the team?

Email: careerprograms@sd38.bc.ca

For specific dates and details of events and application/registration due dates, check the Career Programs website or call 604-668-6000 ext 3766.

Also, check the Career Programs information board in your school's counselling area.

RCMP Youth Squad

SD38 Gr. 10 – 12's apply to learn about emergency services
Oct. – Dec. - 8 consecutive Thursdays 6:00-9:00pm

RCMP Youth Academy

Career simulation open to current Gr. 11/12 students
8 days/nights @ Camp Stillwood in Spring
Apps due end of November

STEP Skilled Trades Exploration Program

Gr. 11/12 students work 1 week alongside
SD38 trades personnel in Spring
Should have interest in trades as career option
Apps due end of January

LinkK38

Gr. 12's take KPU course and earn post-secondary
credit while in high school
Tuition is paid by SD38
Apps due May

Parents as Career Coaches

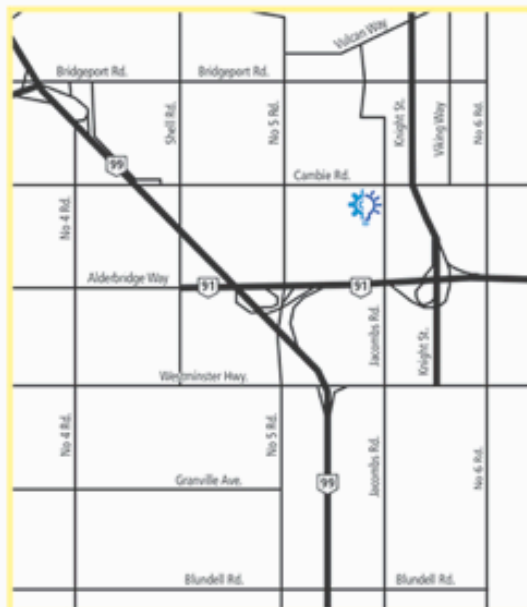
Evening for secondary school parents to learn how
to be career coaches for their children
Choose from one of two dates this year – check District PAC
or Career Programs website to register

Youth Train in Trades Program Site Visits/Workshops

See Youth Train in Trades programs in action
Contact the Career Programs Office to arrange a tour
Check our website for specific upcoming events

SD38 Career Programs Office

c/o Cambie Secondary School, 4151 Jacombs Road,
Richmond, BC V6V 1N7



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