

Welcome to...

# VANCOUVER TECHNICAL SECONDARY SCHOOL

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## MISSION STATEMENT

Vancouver Technical School provides a safe, nurturing and stimulating environment in which students are given the opportunity to develop their intellectual, social, ethnical, aesthetic, physical and emotional intelligence; to respect the individual, embrace diversity and participate in the human community.

## OUR GUIDING PRINCIPLES

We are committed to:

- Provide accessible public education,
- Making our school safe and welcoming,
- Fostering the growth of social awareness and responsibility,
- Developing the diverse talents and gifts of all within the community,
- Serving the extended family of Vancouver Technical.

## VANCOUVER TECHNICAL – AN EXEMPLARY SCHOOL

Making an exemplary school even better. Van Tech's on-going growth plans includes:

- **Literacy** – to improve student reading ability across the curriculum;
- **Numeracy** – to improve results in numeracy;
- **First Nations Students** – closing the gap between aboriginal and non-aboriginal students.



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# ENRICHMENT OPPORTUNITIES

Vancouver Technical offers students many opportunities for academic enrichment. At the Grade 8-10 level, these include the **Summit** District Program, which offers enriched curriculum in English, Social Studies, Mathematics and Science to the students at each level; and the **Flex Humanities** District Program, which emphasizes a humanities focus in a stimulating and supportive environment. Both programs also offer students a variety of field studies.

The Grade 8-12 **French** Immersion Program, which currently enrolls 175 students enables elementary Immersion students to continue to develop their language skills in both English and French. Graduates of this program receive a bilingual certificate. In addition to language development, the program features a French language camp experience in Grade 8 and a two-week exchange to France in Grade 10.

In Grades 11 and 12, students may pursue an enriched program culminating in university level Advanced Placement examinations in English, French, Calculus, Biology and Physics.

For more information on any of these programs, contact the Counselling Department.

## FLEX HUMANITIES PROGRAM DESCRIPTION

Students in this program will study integrated curricula of Humanities, Fine Arts, and Modern Languages in a supportive, stimulating, and challenging environment. Flex Humanities will include as its core subjects Classical Studies, Historical Studies, and French as a Second Language at the 8, 9, and 10 levels. In addition, at the grade 8 Fine Arts will focus on drama and art (including some history or art content). Media Studies at the grade 9 level, and Film Studies at the grade 10 level. The degree of integration will vary over time and subject. The Humanities portion is an integrated study of history, geography, philosophy, and classical literature from Ancient Greece to 19<sup>th</sup> Century Canada. Students are encouraged to intellectually develop their critical thinking skills in a cooperative group setting which emphasizes problem solving, projects, leadership, and social responsibility. The program has been designed for self-motivated students with the ability and desire to take on enriched and challenging curricula.

### FLEX HUMANITIES CLASSICAL STUDIES/HISTORICAL STUDIES 8

*Description:* Flex Classics 8 rediscovers traditional classical Humanities studies; a study of philosophy and classical literature from Ancient Greece to Late Mediaeval Europe. Students will be introduced to Philosophy, all its sub-disciplines, and Classical Literature and the social, cultural, and historical context of the writings. Emphasis will be placed on engaging primary documents and original writings albeit translated from their original languages if other than English. Analytical and logical language skills will be developed to examine philosophical/intellectual ideas. Students will have the opportunity to make literate and relevant connections between philosophy, literature and contemporary existence; making sense of how the world is shaped by ideas. The course will provide an opportunity to explore classical literature and poetry, develop the necessary writing and reading skills to analyze, transliterate/translate, and create text from epic poetic form, dialogue style, to formal essay structure. Historical Studies 8 focuses on the historical and geographic contexts of the ancient to late mediaeval world which are integrated as closely as possible with the Classical Studies component. Additional skills development of analysis and interpretation of historical documents, writing, and speaking skills, and geography skills will be encouraged through work with primary documents, texts articles and historical and contemporary mapping.

### FLEX HUMANITIES CLASSICAL STUDIES/HISTORICAL STUDIES 9

*Description:* Flex Classics 9 is a study of philosophy and classical literature from the Late Mediaeval Europe to the Enlightenment. Students will be introduced to Philosophy, all its sub-disciplines, and Classical Literature and the social, cultural, and historical context of the writings. Emphasis will be placed on engaging primary documents and original writings albeit translated from their original languages if other than English. Analytical and logical language skills will be developed to examine philosophical/intellectual ideas. Students will have the opportunity to make literate and relevant connections between philosophy, literature and contemporary existence; making sense of how the world is shaped by ideas. The course will provide an opportunity to explore classical literature and poetry, develop the necessary writing and reading skills to analyze, transliterate/translate, and create text from poetic form, dialogue style, to formal essay structure. Historical Studies 9 focuses on the historical and geographic contexts of the Europe and North America from the Renaissance Reformation and Enlightenment to end of the 19<sup>th</sup> Century. It includes an examination of the effects of changes in economic, social and political philosophies. Additional skills development of analysis and interpretation of historical documents of writing and speaking skills and of geography skills will be encouraged through work with primary documents, texts, articles, and historical and contemporary mapping.

# ENRICHMENT OPPORTUNITIES (Continued)

## FLEX HUMANITIES PROGRAM DESCRIPTION

### FLEX HUMANITIES CLASSICAL STUDIES/HISTORICAL STUDIES 10

*Description:* Flex Classics 10 is a study of philosophy and classical literature in the 19<sup>th</sup> Century and early 20<sup>th</sup> Century. Students will be introduced to Philosophy from the works of Kant to the existentialist writings of Heidegger. In the Classical Literature portion, students will study Romantic, Victorian, and early 20<sup>th</sup> Century poetry. We will all look closely at the social, cultural, and historical context of the writings. Emphasis will be placed on engaging primary documents and original writings albeit translated from their original languages if other than English. Analytical and logical language skills will be developed to examine philosophical/intellectual ideas. Students will have the opportunity to make literate and relevant connections between philosophy, literature and contemporary existence; making sense of how the world is shaped by ideas. The course will provide an opportunity to explore classical literature and poetry, develop the necessary writing and reading skills to analyze, transliterate/translate, and create text from poetic form, dialogue style, to formal essay structure. Historical Studies 10 focuses on developments on Canada from the late 18<sup>th</sup> Century to the early 20<sup>th</sup> Century. It included an examination of historical and constitutional change as well as geographical exploration with regard to the effects of changing social, political and economic philosophies in Europe and North America. Additional skills development on analysis and interpretation, writing, speaking and geography will be continued through work with a variety of contemporary and historical materials.

## SUMMIT DISTRICT PROGRAM DESCRIPTION

The Summit District Program offers students an opportunity to be involved in a comprehensive program for gifted learners in Grades 8, 9 and 10. Students will experience independent, in-depth learning and also experience work with groups of students of similar academic orientation. Summit students will work within the program to develop creative and/or higher level thinking skills while also developing their organizational, problem-solving and leadership skills. Students will study English, Social Studies, Science and Mathematics in their Summit District Program (4 consecutive blocks). This allows for the scheduling of field trips. The cost of these activities may necessitate fund raising for Grade 10's. Summit students will take elective courses with other students in the remaining four blocks of their timetable. This combination of a Mini-school format, working with intellectual peers, and the opportunities of selecting other courses offered by Vancouver Technical will be appreciated by those students who want to explore their interests and develop their talents in a challenging cooperative learning environment.

### SUMMIT DISTRICT PROGRAM ORGANIZATION

The Summit District Program will present the Ministry-prescribed curriculum for each of the four core subjects in such a way as to challenge and develop higher level thinking skills. Telescoping and integrating the curriculum will allow students to undertake in-depth studies of topics which interest them while achieving mastery of subject content. All Summit students will complete Science 8, 9 and 10 by the end of Grade 9, and Chemistry 11 by the end of 10. In the other subject areas, Summit also allows for the possibility of course acceleration and access to senior courses where appropriate to the student. The program's goals are high academic achievement, the attainment of the bronze level Duke of Edinburgh's award, and a demonstrable involvement in the wider school community.

### WHICH STUDENTS WOULD BENEFIT FROM THIS PROGRAM?

Summit is a comprehensive program for gifted learners. The program is designed to meet the needs of students who demonstrate:

- ★ high academic potential
- ★ communication, artistic, and leadership skills
- ★ compatibility with and consideration of others
- ★ adaptability and emotional stability
- ★ involvement in school activities
- ★ creative and/or higher level thinking skills

Summit is a district program for students seeking a secondary program which is positive, stimulating and challenging.

# ENRICHMENT OPPORTUNITIES (Continued)

## PLANNING 10 AND GRADUATION TRANSITIONS

<http://www.bced.gov.bc/graduation/grad2004.htm>

[http://achievebc.ca/bcgov/content/docs/@21gbv\\_OYQtuW/grad\\_planner.pdf](http://achievebc.ca/bcgov/content/docs/@21gbv_OYQtuW/grad_planner.pdf)

**MPLAN 10**

Planning 10 is a required course that is a foundation for the three year process that culminates in Graduation Transitions in grade 12. All students must complete the requirements for Graduation Transitions in order to graduate.

Planning 10's curriculum is designed around the following 4 areas. Lessons and assignments in these areas form the basis for completing Graduation Transitions.

- 1) **Graduation Program / Graduation Transitions:** Students are taught the graduations requirements for grades 10-12, including provincial exams, required and elective courses. Students are also taught what the graduation transitions requirement (off timetable) entails and how assignments and lessons in planning 10 begin the collection the students need in order to complete this requirement in grade 12 on their own. Course planning is taught in relation to the students identified Focus Area (job clusters) and how this relates to their Transition Plan for the Grad Transitions requirement.
- 2) **Education and Careers:** This section teaches students to explore their abilities and interests and match them with post-secondary options (either work or school). Specific career options are researched in occupational focus areas and these. This kind of career exploration and research is a requirement for graduation transitions (Career and Life component). Job search skills, employability skills and transition planning (goal setting, post-secondary program research etc.) are taught and are foundational pieces to be revisited in grad transitions.
- 3) **Healthy Living:** This section explores the physical and emotional well-being from healthy eating to stress management. Healthy decision making around sexuality and substances are taught. Students look at a start on their Healthy Living Plan as part of the Personal Health component of the graduation transitions.
- 4) **Financial:** This section helps students how to make a budget for now and in the future. Other topics include; taxes, investments, savings, credit cards and insurance. A mock financial plan is done in planning so that students will know how to complete this component for their Transition Plan for grad transition.

As many assignments and projects done in Planning 10 relate to Graduation Transitions in grade 12, it is highly recommended that students keep these assignments for future use.

### GRADUATION TRANSITIONS

Starting in the September 1, 2007 school year, Graduation Transitions English and French replaces the Graduation Portfolio Assessment found in the original 2004 graduation program. All BC secondary school students who are enrolled in Grade 10, 11 or 12 as of September 1, 2007, and beyond must demonstrate they have met the following requirements for:

- Personal Health – maintain a personal health plan and participate in at least 80 hours of moderate to vigorous physical activity, in addition to PE10.
- 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.

<http://www.bced.gov.bc.ca/graduation/grad-transitions/welcome.htm>

## HONOURS LIBERAL ARTS WARRANT

The Honours Liberal Arts Warrant is intended to certify student achievement in the liberal arts. The Warrant will create an enhanced profile for the English, Social Studies, Modern Languages, and Fine Arts providing certified recognition along with links to post secondary institutions and academics. Students, upon structuring a selection of grouped courses and maintaining a B average, will receive an embossed certificate attesting to their achievement. This will be called the "Honours Liberal Arts Warrant." The students who attain the highest G.P.A. along with completion of a thesis portfolio in this warranted program will be eligible receive the Liberal Arts Honours Scholarship upon graduation.

## ENRICHMENT OPPORTUNITIES (Continued)

### CHALLENGE, EXTERNAL CREDIT, EQUIVALENCY (EXTERNAL LEARNING)

#### **EQUIVALENCY:**

Recognizes **documented** learning from outside the BC school system, which the Ministry and/or school districts deem equivalent to the learning outcomes of either a Ministry-Developed, Board/Authority Approved or Locally Developed Grade 10, 11 or 12 course. Where the Ministry has not assessed credentials from other institutions for equivalency, school boards have the authority to do so. The recommended guideline for determining equivalency is approximately an 80% match of learning outcomes with a Ministry-Developed course. **Example:** Credit for Cambridge Language Assessments in Punjabi have been reviewed and deemed equivalent to the Ministry-Developed courses Punjabi 11 and Punjabi 12.

#### **EXTERNAL CREDENTIALS: (MINISTRY APPROVED CERTIFICATES (MAC))**

The Ministry approves credentials earned in courses, programs, and assessments that are developed outside the BC school system and taken either inside or outside the regular classroom setting. External Credentials are not necessarily equivalent to Ministry-Developed curriculum. **Example:** Royal Conservatory of Music Certificates.

#### **CHALLENGE:**

Allows students to receive credit and a percentage mark for a provincially developed Grade 11 or 12 course, offered within a district, through a process of assessing the relevant knowledge and skills they have gained elsewhere. Courses will be normally available for Challenge one year after full implementation of their Integrated Resource Packages (IRP). e.g.: Credit granted through a Mandarin challenge process would provide the school mark and the student must then write the provincial exam (Grade 12).

### VANCOUVER LEARNING NETWORK (VLN)

#### **VANCOUVER LEARNING NETWORK (VLN) – Online Grade 10, 11 & 12**

The Vancouver Learning Network (VLN) is a district-wide program designed to provide opportunities for students to complete regular, secondary school courses online.

Students have the flexibility of learning anytime/anywhere and greater choice than just the courses available in their regular schools timetables. Students benefit by developing life-long learning skills by being independent learners using technology to access new opportunities.

# ACADEMICS ENGLISH

## GRADE 8

### ENGLISH 8 (English)

MEN--08

*Prerequisite:* Grade 7 Language Arts

*Leads to:* EN 9 or EN 9M, EN 9E

*Description:* The English 8 curriculum emphasizes reading for enjoyment and understanding. Throughout the course it is expected that students will describe and assess the strategies they use for reading, viewing, and listening for various purposes; use various strategies to cope with difficult or dense communications; use a variety of resources to obtain background information; identify and interpret the effect of literary techniques and figures of speech. Students will be required to purchase *Language Power* to supplement their grammar and language study.

### ENGLISH 8A (LITERACY SUPPORT) (English)

MEN--08LIT

*Prerequisite:* Grade 7 / teacher recommendation.

*Leads to increased:* Reading fluency, reading comprehension, strategy use across the curriculum.

*Description:* An intensive reading and writing course, for students who are challenged by grade-level reading and are interested in improving their performance. This course utilizes guided reading and reciprocal teaching, to help students gain mastery of the necessary reading strategies. Reading comprehension and oral reading is assessed in order to pinpoint student strengths and needs. Students read and write daily and participate in literature circles. This course is taken in conjunction with English 8.

### SUMMIT ENGLISH 8

MEN--08SUM

*Prerequisite:* EN 7 (with A or B)

*Leads to:* MI EN 9 or EN 9

*Description:* The Summit English 8 program is an introduction to Autonomous Learning program. By means of novels, poetry, short stories, drama, and writing experiences, the students are encouraged to begin taking responsibility for their own learning. Social skills are developed and enhanced to facilitate group learning skills. Students are encouraged to become learners rather than just students, and assignments and activities in the course are designed with that goal in mind. This course enriches the English curriculum through in depth studies based on the Advanced Placement vertical teams approach.

## GRADE 9

### ENGLISH 9

MEN--09

*Prerequisite:* EN 8, FIEN 8, or students from EN 8M who have been recommended for EN 9.

*Leads to:* EN 10/10M, or EN 10E

*Description:* The English 9 curriculum encourages enjoyment, understanding, and the developing of skills in order to appreciate all genres of literature. Students will write in a variety of forms (journals, essays, narratives, and poetry) for different audiences. Students are expected to purchase *Language Power* to supplement grammar and language study.

### ENGLISH 9E HONOURS

MEN--09E

*Prerequisite:* EN 8, FIEN 8, with a B or better standing.

*Leads to:* EN10/10M, or EN 10E

*Description:* The enriched English 9 curriculum is designed for the avid reader or writer who is keen and curious about exploring English in depth. This course includes literary analysis of genres such as short stories, novels, poetry and drama, along with writer's workshop, and formal oral assignments. Students are expected to purchase *Language Power* to supplement grammar and language study.

# ENGLISH (Continued)

## GRADE 9

### SUMMIT ENGLISH 9

MEN--09SUM

*Prerequisite:* MI EN 8 or EN 8 with A or B standing

*Leads to:* MI EN 10 or EN 10

*Description:* The Summit English 9 program continues the development started in Grade 8. Using the delete English curriculum and enriched activities, higher level thinking skills are integrated, reinforced, and demonstrated in the learning process. Students become increasingly actively involved in their learning, and through community involvement, learning and questioning techniques, and peer interaction, students are encouraged to develop new and unique products. This course enriches the English curriculum through in depth studies based on the Advanced Placement vertical teams approach.

## GRADE 10

### ENGLISH 10

MEN--10

*Prerequisite:* EN 9 or EN 9E

*Leads to:* EN 11, EN 11E, and WR 12

*Description:* The grade 10 curriculum includes in-depth studies of short stories, novels, poetry, non-fiction and drama (with an emphasis on Shakespeare). Written work includes formal essay writing, response logs, poetry, and speeches. This course has a provincial exam worth 20% of the student's overall mark.

### ENGLISH 10A

MEN--10A

*Prerequisite:* EN 9 or EN 9M

*Leads to:* COM 11 or COMP 11

*Description.* For the student who is unable to read or write at an academic 10 level and needs a modified curriculum. Students will be expected to purchase *Literacy Power* to supplement grammar and language study. This course has a provincial exam worth 20% of the student's overall mark.

### ENGLISH 10

MEN--10E

*Prerequisite* EN 9 with a C+ or better

*Leads to:* EN 11, EN 11E, and WR 12

*Description:* This course will look at the EN 10 curriculum through a writer's lens. A number of genres will be explored including poetry, short stories, drama, novel, and autobiography. Students will be writing extensively in poetry and prose and will be given the opportunity to submit work for a variety of writing contests and publications. Students will form a writing community where pieces are shared and workshopped. Students will write the provincial exam for this course worth 20% of the student's overall mark.

### SUMMIT ENGLISH 10

MEN--10SUM

*Prerequisite:* MI EN 9, or EN 9 with A or B standing

*Leads to:* EN 11E, EN 11, or

WR 12

*Description:* The Summit English 10 program further extends the goals of Grades 8 and 9. By this point, autonomous, self-directed study should be ingrained in the learner. Students will use varied resources in the development of in-depth studies. Content topics are broad-based, with emphasis on major themes, problems, issues and ideas. Students should leave the Summit English program as capable learners and communicators. Students will write the provincial exam for this course worth 20% of the student's overall mark. This course enriches the English curriculum through in depth studies based on the Advanced Placement vertical teams approach.

# ENGLISH (Continued)

## GRADE 11

### ENGLISH 11

MEN--11

*Prerequisite:* EN 10, EN 11E, FLEN 10 or MIEN 10

*Leads to:* EN 12, APEN 12, TPC 12, and LIT 12

*Description:* The grade 11 curriculum includes in-depth studies of world literature in the genres of short stories, drama, novels, and poetry. Themes of social justice, cultural, and personal identity are explored. Written work focuses on connecting students' personal responses with texts and the world they live in through journals, poetry, and literary /expository essay writing.

### ENGLISH 11E (ENRICHED)

MEN--11E

*Prerequisite:* EN 10, or EN 10E

*Leads to:* EN 12, APEN 12, TPC 12, and LIT 12

*Description:* The Enriched English 11 curriculum is designed for students who are enthusiastic about literature and learning. The course content includes an introduction to the classics, the use of multiple literary lenses, and in-depth analysis of texts. An advanced level of discourse is developed through the study stories, poetry, novels, drama, and non-fiction.

### COMMUNICATIONS 11

MCOM--11

*Prerequisite:* EN 10 or EN 10M

*Leads to:* COM 12

*Description:* Communications 11 is an English course designed to provide a variety of activities for the Grade 11 student in speaking, writing and reading. Emphasis is placed on understanding a variety of reading material, including short stories, and novels. Written works include letters, short essays, and personal responses.

### PSYCHOLOGY 11

YPSY--11

*Prerequisite:* EN 10

*Description:* Familiarization with the major areas and concepts of psychology including Human Development, Learning and Language, Personality, Psychopathy, Psychotherapy, and Research Processes through lectures, discussions, speakers, films, research papers, case studies, and written reports. Students should possess good reading and writing skills and at least a C standing in academic English.

### BA PEER TUTORING 12

YPTU--12

Full Year

*Prerequisite:* An A, B, or C+ standing in EN 10 or EN 11

*Description:* This locally developed, elective course is designed to provide Grade 11 and Grade 12 students with the opportunity and skills to tutor Grade 8 and 9 students who need help to succeed in school. The tutor will help students acquire skills such as reading, writing, critical and creative thinking, and basic mathematics. Under the direction of the Skills teacher tutors work one-to-one with a Grade 8 or 9 student; keep a block journal; are provided with an introduction to a diversity of instructional techniques and skills; while making a worthwhile contribution to another's educational opportunities. Assessment is based on written daily journals, good attendance, and participation.

# ENGLISH (Continued)

## GRADE 12

### ENGLISH 12

MEN--12

*Prerequisite:* EN 11

*Description:* The grade 12 curriculum is designed to allow students to think critically, solve problems, communicate clearly, and be able to learn and work both independently and with others. Students will continue to develop skills in reading and interpreting different forms of literature, use literary terminology, demonstrate critical and creative thinking, and express yourself powerfully and convincingly through writing and speaking for a variety of audiences. This is a provincially examinable course with an emphasis on analysis and writing. It is strongly recommended that students achieved a C or better in EN 11.

### COMMUNICATIONS 12

MCOM--12

*Prerequisite:* EN 11 or COM 11

*Description:* Communications 12 is a course designed for students unable to read or write at a level consistent with the standard needed for English 12. Students read a variety of materials, and write short essays, memos, and letters, as well as respond to a wide variety of assignments. Passing a 2 hour government examination worth 40% of the students' final letter grade is required for graduation. Students achieving a B or higher letter grade will be accepted by some colleges.

### LITERATURE 12

MLIT--12

*Prerequisite:* EN 11 or EN 11E

*Description:* Literature 12 is a course that looks at influential literature from the Anglo-Saxons to the Late Twentieth Century. It explores the historical, philosophical, and thematic issues of each time period. It is excellent background for students who love literature and who plan on attending college or university. It is recommended that students have a C+ or better in EN11 or EN11E. This course is provincially examinable and applies to a government scholarship.

### WRITING 12

MWR--12

#### CREATIVE WRITING

*Prerequisite:* EN 10, EN 11, COM 11 or EN 10W

*Description:* This is an intensive writing course designed for students who wish to improve their writing skills, and explore and experience writing in a variety of forms. A number of genres will be explored including, short-story writing, poetry, screenplay writing, and humour. Students will have opportunities to design their own major projects and will be encouraged to start a professional writing portfolio. They will also be given the opportunity to submit work to writing contests and publications. This is an elective that may be taken alongside EN 11 or 12.

### ADVANCED PLACEMENT LITERATURE & COMPOSITION 12

AELC-12

*Prerequisite:* EN 11 or EN 11E

\* Taking LIT 12 concurrently is strongly recommended. Students enrolled in Literature 12 will get priority placement.

*Description:* This course covers the English 12 curriculum and is for students who are passionate about reading, writing, and exploring the world of literature through multiple lenses. Written work emphasizes the literary and analytical essay. Active participation in discussion, group work and creative representation of learning are also a focus. Students prepare for university level discourse, reading and writing. Students who write the May AP exam and receive a level 4 are given English credit for first year university at SFU, UBC, UVIC, colleges in USA and various colleges and universities across Canada. Students will also write the English 12 provincial exam worth 40% of their final English 12 grade.

# ENGLISH AS A SECOND LANGUAGE

The ESL Program is designed to help students acquire the English language skills that will enable them to be successfully integrated into the regular school stream.

## RECEPTION COURSES

### ESL ENGLISH - READING & WRITING

**XLDCE10RE**  
**XLDCE10WR**

These courses are designed for ESL students who have limited or no language skills in English. ESL English covers the necessary skills in listening, speaking, reading and writing for the ESL student to master basic communication. A variety of learning materials will be used in the classroom.

### ESL SOCIAL STUDIES

**XLDCE10SS**

This course is designed to study English through Social Studies. Students will study Canada and some aspects of Canada's economy. They will also study some of the countries where our students come from.

### ESL SCIENCE

**XLDCE10SC**

Topics from the Grades 8, 9 and 10 texts are used to help students understand the scientific method. The topics help the students as they qualify for the Transitional Level or the regular stream.

## TRANSITIONAL

### TRANSITIONAL ENGLISH TRANSITIONAL SOCIALS

**XLDCE10TRE**  
**XLDCE10TRS**

Transitional English and Social Studies are designed to bridge ESL studies from reception level to the regular program.

### TRANSITIONAL LANGUAGE

**XLDCE10TRL**

Transitional Language course is designed primarily to support students at the grade 9 & 10 level who need extra instruction and practice in basic English skills. ESL students will be expected to enroll in this course concurrently with English 9 or English 10/10M.

### COMPOSITION 11

**YCOMP11**

Composition is designed primarily to support students at the grade 11 & 12 level who need extra instruction and practice in basic English skills. ESL students will be expected to enroll in this course concurrently with English / Communication 11 or English / Communication 12.

# FRENCH IMMERSION

The secondary component of the French Immersion program at Vancouver Technical Secondary provides students from both late and early French Immersion the opportunity to continue their studies in French and to continue the development of higher level thinking and verbal skills in their second language.

Successful graduates of the full program at the end of Grade 12 receive a Bilingual Graduation Certificate in addition to the provincial “Dogwood” certificate.

## **FRANÇAIS-INITIATION À L'EXPRESSION DRAMATIQUE 8**

**FADRF08**

*Prerequisite:* Successful completion of the early or late French Immersion Program at the elementary level.

*Description:* In this course students will be exposed to narratives and creative works in the context of theatre and dramatic expression, as well as the basic elements of dance and the fundamentals of oral speaking. This class will be conducted in French and students are expected to communicate only in French.

## **FRANÇAIS LANGUE 8**

**FFRAL08**

*Prerequisite:* Successful completion of the early or late French Immersion Program at the elementary level.

*Description:* This language course focuses on oral and written expression and reading and listening skills. Four basic verb tenses will be reviewed and new tenses introduced. Vocabulary will be enriched, allowing for more complex communication. This class will be conducted in French and students are expected to communicate only in French.

## **SCIENCES NATURELLES 8**

**FSCF-08**

*Prerequisite:* Successful completion of the early or late French Immersion Program at the elementary level.

*Description:* This course follows the same curriculum as in the regular SC8 course; four major units will be explored: Cells, Optics, Fluids, and Water. Instruction is in French and students are expected to communicate only in French.

## **SCIENCE HUMAINES 8**

**FSCHF08**

*Prerequisite:* Successful completion of the early or late French Immersion Program at the elementary level.

*Texts:* Les sentiers de la civilisation (2002) - Les chemins de la civilisation

*Description:* The curriculum covers political and physical geography of the world and general cartography. In history, the Roman Empire, the Middle Ages in Western and Eastern Europe, the Middle East and Islam, the beginnings of the Chinese Civilization, the Renaissance and its roots and finally world religions. Instruction is in French and students are expected to communicate only in French.

## **FRANÇAIS ANIMATION / CONNAISSANCE DES MEDIAS 9**

**FADRF09**

*Prerequisite:* FICO 8

*Description:* This course aims at the four basic skills with emphasis on oral work. Students will be taught how to animate small and large groups and will be involved in projects and activities using their animation skills. Knowledge of different media such as radio, television, newspapers, advertising, theatre will be taught throughout the course, which is instructed entirely in French and students are expected to communicate only in French.

## **FRANÇAIS LANGUE 9**

**FFRAL09**

*Prerequisite:* FILA 8

*Description:* This language course aims at the four basic skills with emphasis placed on grammar, composition, creative writing, and literature. Regular oral participation is stressed. This course is taught entirely in French and students are expected to communicate only in French.

## **SCIENCES NATURELLES 9**

**FSCF-09**

*Prerequisite:* FISC 8

*Description:* This course follows the same curriculum as the regular Science 8 course. For details of the content of the course please refer to the regular science course description. The course is taught entirely in French and students are expected to communicate only in French.

# FRENCH IMMERSION (Continued)

## SCIENCES HUMAINES 9

FSCHF09

*Prerequisite:* FISS 8

*Texts:* A la croisée des chemins (2002) - Les Origines du Canada - Chemins de la civilisation II

*Description:* The curriculum covers: the origins of the human migration in the Americas and the evolution of Native cultures throughout the continent. The physical and political geography of the Americas. The European explorers and the colonization of New-France. It also covers the English, American, French and industrial revolutions. This course is taught entirely in French and students are expected to communicate only in French.

## PLANIFICATION 10

FPLAN10

*Prerequisite:* All French Immersion 9 courses.

*Description:* Planification 10 is a new four-credit course required for graduation. It is an integral part of the new 2004 Graduation Program. It replaces CAPP 10, 11 & 12. It includes four major sections: Graduation Transitions; Education and Careers; Healthy Living; and Financial Literacy. Please see page 2 for a complete description of "Planning 10". This course is taught entirely in French and students are expected to communicate only in French.

## FRANÇAIS LANGUE 10

FFRAL10

*Prerequisite:* FILA 9

*Description:* This course will continue to refine the students' knowledge of the French language, literature, and culture. Regular oral participation is stressed. This course is taught entirely in French and students are expected to communicate only in French.

## SCIENCES NATURELLES 10

FSCF-10

*Prerequisite:* FISC 9

*Description:* Laboratory investigations and research projects are stressed. Units as in regular Science 10 include Chemistry: atomic theory, chemical reactions; Physics: motion, radioactivity; Biology: ecology, sustainability; Earth Science: earth forces. This course is taught entirely in French and students are expected to communicate only in French.

## SCIENCES HUMAINES 10

FSCH10

*Prerequisite:* FISS 9

*Text:* Retrospective Canada - L'Ouest et son Histoire

*Description:* The curriculum covers: Canada from the conquest to Confederation. It includes BC history, the rebellion of 1837-1837, the Riel rebellion and the making of Confederation. We also cover interpretation of maps and graphics and the geography of Canada. This course is taught entirely in French and students are expected to communicate only in French.

## FRANÇAIS LANGUE 11

FFRAL11

*Prerequisite:* FILA 10

*Description:* The main objective of this course is to fashion the students' French into an increasingly sophisticated tool of communication and thought. Students will read French Literature from the Middle Ages to the 19<sup>th</sup> Century. This course is taught entirely in French and students are expected to communicate only in French.

## SCIENCES HUMAINES 11

FSCH11

*Prerequisite:* FISS 10

*Text:* De la Confédération □ aujourd'hui

*Description:* The curriculum covers: Canada in the First and Second World War, the Depression of the 1930s, Canada from 1945 to 1980, the rise of nationalism in Quebec in the 1960s and 70s. The Government and its institutionalized Justice system. Human geography and world problems. This course is taught entirely in French and students are expected to communicate only in French.

## FRANÇAIS LANGUE 12

FFRAL12

*Prerequisite:* FILA 11

*Description:* Through the study, analysis, and comparison of key texts, students will be given the opportunity to explore and compare some of the main ideas underlying the 20<sup>th</sup> century. Students are regularly expected to present a critical summary of their readings, and write a number of essays. This course is taught entirely in French and students are

expected to communicate only in French. Students in this course can opt to write the APFILA12 exam. Students need to register for it early in the year.

## LANGUAGES

### FRENCH

#### FRENCH 8

MFR--08

*Leads to:* FR 9

*Description:* FR 8 is an introductory course with emphasis on communication and basic elements of French Grammar. Students share information about themselves, their school, their interests and their world.

#### FRENCH 9

MFR--09

*Prerequisite:* FR 8

*Leads to:* FR 10

*Description:* This course continues to focus on communication and expands on the basic elements of French Grammar. Communication skills are expanded. Students' confidence in oral ability increases as they learn to communicate with greater ease about themes relevant to their lives.

#### FRENCH 10

MFR--10

*Prerequisite:* FR 9

*Leads to:* FR 11

*Description:* In French 10, language is learned through integration of all aspects of communication: speaking, reading, writing and listening. The activities are active and meaningful and are designed to help students communicate about topics that are drawn from their own experience.

#### FRENCH 11

MFR--11

*Prerequisite:* FR 10

*Leads to:* completion of University entrance requirements; FR 12

*Description:* This is an intensive course in which students will discover more about themselves and others through oral and written communication. It is for any student interested in learning French for pleasure, continuing the study of the language, and/or improving their preparation for the job market.

#### FRENCH 12

MFR--12

*Prerequisite:* FR 11

*Leads to:* FR 12 Provincial Exam

*Description:* This is a senior course in which students will be required to master many of the finer points of grammar and composition, and attain a higher level of oral proficiency in order to improve their communication skills.

### MANDARI

#### MANDARIN 9

MMAN-09

*Prerequisite:* open to students in Gr. 9 & 10

*Leads to:* MAN 10

*Description:* This is an introductory course, including learning the pronunciation of the language and simple everyday conversation. Written and oral activities will involve both culture and customs of the language. Students must be tested prior to signing to ensure proper placement. **Students will be required to purchase a workbook accompanying the course.**

#### MANDARIN 10

MMAN-10

*Prerequisite:* MAN 9

*Leads to:* MAN 11

*Description:* This is a continuation of the Grade 9 course, greatly extending the vocabulary and increasing the focus on sentence structures. All students not previously enrolled in Mandarin must be tested prior to signing to ensure proper placement.

#### BEGINNING

MBMAN-11

#### MANDARIN 11

*Prerequisite:* open to students in Grade 11 & 12 only

*Description:* The course provides an accelerated and condensed study for students in Grade 11 or 12 who have not taken MAN 9 or MAN 10, but wish to acquire the necessary prerequisite for MAN 11. Students must be tested prior to signing to ensure proper placement.

# LANGUAGES (Continued)

## MANDARI

### MANDARIN 11

**MMAN-11**

*Prerequisite:* MAN 10

*Leads to:* MAN 12

*Description:* This course is based on the IRP curriculum approach, greatly extending the vocabulary and grammar with increasing difficulty in the subject matter. Two hundred and fifty written characters will be introduced at this level.

### MANDARIN 12

**MMAN-12**

*Prerequisite:* MAN 11

*Leads to:* MAN 12 Provincial Exam

*Description:* This course is designed to increase students ability to communicate in Mandarin and to develop an understanding of the values, customs and other elements of Chinese culture. Grammar points and composition skills will be emphasized at this level.

## SPANIS

### SPANISH 9

**MSP--09**

*Prerequisite:* None

*Leads to:* SP 10

*Description:* Spanish 9 is a first year course providing the student with a basis for further study in the language by developing each of the language skills: listening comprehension, speaking, reading and writing. Emphasis is on communication in everyday situations.

### SPANISH 10

**MSP--10**

*Prerequisite:* SP 9

*Leads to:* SP 11

*Description:* Spanish 10 builds on the communication skills and culture acquired in Spanish 9, introducing more vocabulary and more complex grammar. The student achieves a higher level of proficiency in oral and written communication. Supplementary readers are used to provide a cultural context to the vocabulary taught.

### BEGINNING

**MBSP-11**

### SPANISH 11

*Prerequisite:* none; open to students in Gr. 11 & 12; previous experience with another Romance language is helpful.

*Description:* Beginning Spanish 11 is an introductory, one-year course for senior students who want to sample another language. It may lead to Spanish 11. It provides a strong emphasis on everyday communication using basic grammar and vocabulary.

### SPANISH 11

**MSP--11**

*Prerequisite:* SP 10

*Leads to:* SP 12

*Description:* In Spanish 11, students communicate about their lives and the world around them, using more complex structures. They are expected to show mastery in oral, aural, reading, and writing skills. Culture is also discussed in class, along with current events. As a major project, students are requested to make an oral presentation on a Hispanic country.

### SPANISH 12

**MSP--12**

*Prerequisite:* SP 11

*Description:* In Spanish 12, students communicate about their lives and the world around them, using more complex structures. They are expected to show mastery in oral, aural, reading, and writing skills. Culture is also discussed in class, along with current events. This course is building on from Spanish 11.

# MATHEMATICS

## COURSE SELECTION

Your current mathematics teacher will help you choose appropriate courses for the following year. Students must choose their pathway carefully, ensuring that it is realistic in relation to their present level of achievement and interests and appropriate for their long range post secondary goals. Successful completion of one of the courses at the grade 11 level is required for graduation.

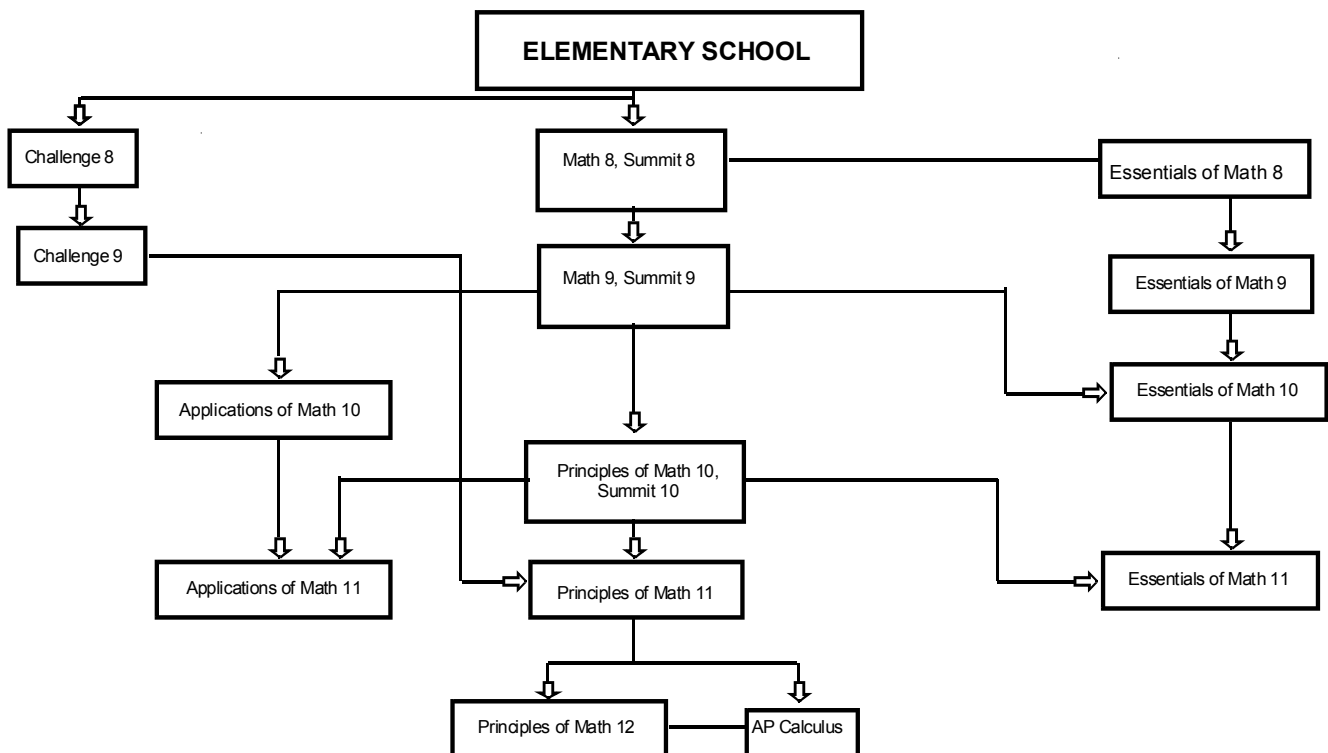
**PRINCIPLES OF MATHEMATICS** is designed for students whose post secondary goals include Calculus, and is a requirement for entry to all science and engineering programs. Most universities have Principles of Mathematics 11 as a general entrance requirement.

**APPLICATIONS OF MATHEMATICS** presents mathematics from an applied perspective. Not all universities and colleges accept Applications of Mathematics as a general entrance requirement. There are restrictions on its acceptance. It is the responsibility of the student to check to see where it is accepted, and with what conditions.

**ESSENTIALS OF MATHEMATICS** is designed to help students learn math skills required for work and in their personal lives as citizens and consumers. This pathway is appropriate for students who do not require academic math credits for post secondary studies.

## CALCULATOR

Students in Math 8 should have at least a four function calculator with a square root key. Students in Math 9, 10 or 11 must have a scientific calculator with exponential and trigonometric functions. Math 11, 12 and Calculus students should consider buying a graphing calculator (required for the math provincial exams). One may be borrowed from the school if the student is not able to bring his/her own.



# MATHEMATICS (continued)

## GRADES 8 and 9

Students entering Grade 8 are placed based upon the recommendations of their Grade 7 teacher and/or results obtained on placement testing.

### **MATHEMATICS 8**

**MMA--08**

*Description:* Students will study rational operations, equation solving, graphing, exponents and roots, scientific notation, measurement, probability and data analysis.

### **CHALLENGE MATH 8 AND 9**

**MMA—08CH, XAT--09MCH**

Students must be recommended by their Grade 7 teacher and achieve a certain standard on a placement test given at Tech in April of the Grade 7 year. Together CHMA 8 and CHMA 9 form an accelerated program in which the student completes MA 8, MA 9 and MA 10 in two years.

### **SUMMIT MATHEMATICS 8, 9 AND 10**

**MMA--08SUM, MMA--09SUM, MMA-10SUM**

Part of the Summit Program, this math program covers all the topics in the MA 8, MA 9 and MA 10 curricula. In addition, students will participate in math contests and work on projects. Where appropriate, students may accelerate and complete MA 8, MA 9, MA 10, and MA 11 in 3 years.

### **MATHEMATICS 9**

**MMA--09**

*Prerequisite:* MA 8

*Description:* Students will study exponents, operations, factoring, equations, inequalities, similarity, transformations, trigonometry and probability.

## GRADE 10

**NOTE:** All mathematics courses at the Grade 10 level have a Provincial Exam.

### **PRINCIPLES OF MATHEMATICS 10**

**MMA--10**

*Prerequisite:* MA 9. A "C+" standing or higher is strongly recommended.

*Description:* Students will study polynomial expansion and factoring, rational expressions and equations, rational exponents, function notation, coordinate geometry, trigonometry, probability and sequences and series.

### **APPLICATIONS OF MATHEMATICS 10**

**MAMA-10**

*Prerequisite:* MA 9 – a C+ standing or higher in MA 9 is strongly recommended.

*Description:* Students will study algebra, recursion, problem solving, relations, functions, measurement, trigonometry, coordinate geometry and data analysis. Graphing calculators will be used.

### **ESSENTIALS OF MATHEMATICS 10**

**MEMA-10**

*Prerequisite:* EMA 9 or MA 9 with teacher recommendation.

*Description:* Students will study problem solving, personal finance, spreadsheets, ratio and proportion, trigonometry, geometry and probability.

# MATHEMATICS (continued)

## GRADE 11

### PRINCIPLES OF MATHEMATICS 11

MMA--11

*Prerequisite:* MA 10. A “C+” standing or higher is strongly recommended.

*Description:* Students will study linear systems and inequalities, various functions, transformations, higher order polynomials, trigonometry, logic and geometry.

### APPLICATIONS OF MATHEMATICS 11

MAMA-11

*Prerequisite:* AMA 10 or MA 10 with teacher recommendation. A “C+” standing or higher in AMA10 or PMA10 is strongly recommended.

*Description:* Students will study personal finance, linear systems and inequalities, various functions, geometry, measurement and statistics. Graphing calculators will be used extensively.

### ESSENTIALS OF MATHEMATICS 11

MEMA-11

*Prerequisite:* EMA 10 or AMA 10, MA 10 with teacher recommendation.

*Description:* Students will study personal finance, measurement, algebra, and graphing.

## GRADE 12

### PRINCIPLES OF MATHEMATICS 12

MMA--12

*Prerequisite:* MA 11. A “C+” standing or higher is strongly recommended. This course has a provincial examination.

*Description:* Students will study trigonometry, conics, logarithmic and exponential functions, sequences and series, transformations, and statistics and probability. Graphing calculators will be used extensively.

### APCALCULUS 12

ACAL-12

*Prerequisite:* MA 11 with an “A” or “B” standing **and** concurrent enrollment in MA 12 **or** MA 12 with an “A” or “B” standing.

*Description:* This prepares students for university calculus. Students may choose to write examinations that offer the opportunity of advanced placement and course credit at the university level. There is a fee for these exams. There is no provincial exam for this course.

# SCIENCE

## GRADES 8 to 10

The Science 8, Science 9 and Science 10 courses are organized so that the three courses together are an introduction to the major fields of Science. Themes and topics for each year are covered in the table below. Science 10 is a provincially examinable course.

General Themes	Specific topics for each grade		
	Science 8	Science 9**	Science 10
Applications of Science	Lab Safety; Scientific Methods representing and interpreting scientific information.	Experiments using the scientific method. Graphing. Relationship between science and technology.	Lab Safety; Scientific Method; Ethical Implications of Science; Experimental Design.
Life Science	The eye and human vision.	Reproduction - sexual and asexual, cell division. Simple mendelian genetics.	Sustainability of Ecosystems.
Physical Science (matter)	- Kinetic Molecular Theory. - Properties and phase changes of matter.	Atoms and Elements - modern atomic theory - chemical symbols and ionic formulas	Atomic Structure; Chemical Bonding; Balancing Chemical Equations.
Physical Science (energy)	<u>Optics</u> - waves, light, electromagnetic spectrum. <u>Fluids and Dynamics</u> - viscosity, relationship between pressure, heat and force in fluids.	- static and current electricity - circuits, resistance, voltage, current - radioactivity	Radioactivity; Motion.
Earth and Space Science	<u>Water Systems on Earth</u> - water cycle, salinity and temperature in oceans, water and ice shaping the landscape, drainage systems, species in marine environments.	Space Exploration - solar system and the universe - aboriginal perspectives - implications of space travel	Earthquakes; Volcanoes; Plate Tectonics; Climate Changes.
<i>Text</i>	Science Probe 8	Science Probe 9	Science Probe 10
<i>Prerequisite:</i>	none	Science 8	Science 9
<i>Leads to:</i>	Science 9	Science 10	BI 11, CH 11, PH 11, SCT11 or GEOL12
<i>Course Code</i>	SC8	SC9	SC10

The outline of topics above covers all of the provincially prescribed learning outcomes for students in the regular program. Some topics (\*) are covered in the year in which we have the best resources available, which may not be the year prescribed. For detailed descriptions of the Science 8, 9 and 10 courses see the Ministry of Education website at <http://www.bced.gov.bc.ca/irp/science810/sctoc.htm>.

### SUMMIT SCIENCE 8, 9 and 10

MSC--08SUM, XAT--09SUM

*Prerequisite:* admission to the Summit Program.

The Summit Science program will take the concepts noted above and condense them into two years of study. Science 10s will do the Science 11 course.

## SCIENCE (continued)

### GRADE 11

**BIOLOGY 11****MBI--11***Prerequisite:* SC 10*Leads to:* BI 12*Fee:* An optional study guide \$30 and optional field expense*Text:* Biology, Miller & Levine*Description:* This is a survey course of the major fields of Biology, including taxonomy, evolution, microbiology, zoology, botany and ecology. The course includes field trips and dissection activities. For a complete description of the Biology 11 course, see the Ministry website at <http://www.bced.gov.bc.ca/irp/biology/bitoc>.**CHEMISTRY 11****MCH--11***Prerequisite:* SC 10 and MA 10 with a C+ or better standing in Math 10 and Science 10.*Leads to:* CH 12*Fee:* Optional field expense*Text:* Heath Chemistry*Description:* Topics covered in this course include: Safety; Introduction to Chemistry; Introduction to the Periodic Table, Atomic Structure, Solutions; Introduction to Organic Chemistry. **Students are required to have a calculator.** For a complete description of the Chemistry 11 course, see the Ministry website at <http://www.bced.gov.bc.ca/irp/chem1112/chtoc.htm>**PHYSICS 11****MPH--11***Prerequisite:* SC 10 and MA 10 with a C standing or better*Leads to:* PH 12*Text:* Fundamentals of Physics, Ideas of Physics (\$20 fee for workbook)*Description:* Physics is often called the “key science” because it is concerned with the basic laws of nature. It stimulates the imagination and teaches the student to observe the world with a new sense of wonder and awe. The study of Physics is excellent mental training. Topics studied in the Physics 11 course include: Motion in one dimension; Energy; Waves and Photons and the Transmission of Energy. **Students are required to supply their own graph paper, calculator and geometry set.** For a complete description of the Physics 11 course, see the Ministry website at <http://bced.gov.bc.ca/irp/physics/phtoc.htm>**SCIENCE & TECHNOLOGY 11****MSCT-11***Prerequisite:* SC 10, recommended by SC10 teacher and parent/guardian consent.*Leads to:* Terminal course*Text:* To be announced*Description:* This course includes modules on: Energy; Computers; Space; Waste; Military technology; Reproduction; and others. This is primarily a discussion and research course.**ASTRONOMY 11****?11***Prerequisite:* SC 10*Description:* The fundamentals of Astronomy are covered in this survey course. Topics include the history of Astronomy and space exploration; stars, galaxies and the large structure of the universe; cosmological history; dark matter and energy; astrobiology; observational instruments and techniques. There will be a small math component to some aspects of the course. Students will need to spend \$25 for materials to build their own simple telescope.**GRADE 12****BIOLOGY 12****MBI--12***Prerequisite:* BI11 and CH11 strongly recommended. Students without CH11 should have a ‘B’ or better in BI11 and be prepared for considerable make-up work outside of class time.*Leads to:* University level Biology*Fee:* Optional field expense*Text:* Inquiry into Life 9<sup>th</sup> Edition, BI11 study guide continues to be useful*Description:* This challenging course is designed to cover cell biochemistry and physiology. A large portion of this course involves the study of human physiology with an in-depth examination of some of the major systems. The laboratory part of the course includes a major dissection. For a complete description of the BI12 course, see Ministry website at <http://www.bced.gov.bc.ca/irp/biology/bitoc.htm>. **Note: This is a provincially examinable course.****SCIENCE (continued)****GRADE 12**

**CHEMISTRY 12****MCH--12**

*Prerequisite:* CH 11 and MA 11 with a C+ standing or better are strongly recommended

*Leads to:* University level Chemistry

*Fee:* A CD text will be provided to you. An optional workbook can be purchased for \$20. A calculator is required.

Optional field expense

*Text:* Heath Chemistry

*Description:* Topics for this course include: Reaction Kinetics; Equilibrium; Solubility of Ionic Substances; Acids-Bases; Oxidation-Reduction. For a complete description of the Chemistry 11 course, see the Ministry website at <http://www.bced.gov.bc.ca/irp/chem1112/chtoc.htm>. **Note: This is a provincially examinable course**

**PHYSICS 12****MPH--12**

*Prerequisite:* PH 11 is strongly recommended. MA 12 should be taken concurrently

*Leads to:* University level Physics

*Fee:* A calculator is required. There is a \$20 charge for the text/workbook.

*Text:* Gore, Grade 12 Physics

*Description:* Topics for the Physics 12 course include: Vectors (components and resultants, motion in two dimensions, collision and projectile problems); Universal Gravitation; Charges and Currents; Electromagnetism. For a complete description of the Physics 12 course, see the Ministry website at <http://www.bced.gov.bc.ca/irpphysics/phtoc.htm>.

**Note: This is a provincially examinable course.**

**GEOLOGY 12****MGEOL12**

*Prerequisite:* SC 10

*Fee:* Optional field expense

*Description:* Geology is the study of the Earth, the materials of which it is made, the physical and chemical changes that occur on its surface and in its interior and the history of the planet and its life. Therefore, the following topics will be covered: The course is summarized through a 5 day long field trip through BC and Alberta to examine the geological principles in this course. Students will be visiting the Royal Tyrrell Museum in Drumheller.

- ★ Earth Materials: mineralogy; igneous rocks and processes; sedimentary rocks and processes; metamorphic rock and processes; mineral, rock and energy resources;
- ★ Time and the Fossil Record: relative dating; absolute dating; geological time scale; fossil record and past environments;
- ★ Internal Processes: plate tectonics; structural geology - faults, folds, cross sections, geological mapping; seismology;
- ★ Surficial Processes: weathering and erosion, running water, glaciers, ground water;
- ★ Comparative Planetology: comparisons between the processes on Earth and other planets.

**Note: This is a provincially-examinable course.**

**ADVANCED PLACEMENT COURSES**

If enrollment is sufficient, the Science Department offers Advanced Placement (AP) courses in Biology, Physics and Chemistry. The AP courses are based on a first year university curriculum and, if the student scores well on the final exam, may offer entry to second year courses or credit of the first year course. As you might expect, the AP courses are more difficult than the regular grade 12 courses. They cover additional material, at a higher level of detail and rigor. There may be additional charges for the university level textbook. There will be a \$100 charge to write the AP exam in May. AP students will be concurrently enrolled in the grade 12 course and will have to write the regular provincial exam in June.

**ADVANCED PLACEMENT BIOLOGY 12****ABIO-12**

The AP Biology course includes all the topics of BI12 although at a greater depth and detail. There are also units of Genetics, Evolution, Ecology and Plant Physiology which are much more detailed reviews of material covered in SC10 and BI11.

**ADVANCED PLACEMENT PHYSICS 12****APHC-12**

AP Physics 'B' is a traditional college level introductory course in algebra-based Physics. In addition to the topics of PH12, there are also units on Simple Harmonic Motion, Thermodynamics; Capacitors; Optics; and Nuclear Physics. \$20.00 charge for text.

**ADVANCED PLACEMENT CHEMISTRY 12****ACHE-12**

In addition to the topics of CH12, AP Chemistry includes structure of matter, states of matter, reactions, descriptive Chemistry and additional labs

**SOCIAL STUDIES****GRADE 8**

**SOCIAL STUDIES 8****MSS--08***Leads to:* SS 9*Text:* Across the Centuries; Oxford School Atlas.*Description:* An introduction to world history 550 CE 1500 CE. The skills of historical interpretation are introduced as well as rudimentary geography.**SUMMIT SOCIAL STUDIES 8****MSS--08SUM***Leads to:* SS 9 Summit*Text:* World History; Canadian Oxford School Atlas; Geographic Essentials*Description:* Summit Socials 8 will focus on the skills required to become *a life long learner*. Students will follow the regular grade 8 IRP Ancient Rome, Ancient India, Ancient China the middle Ages in Europe and Asia, Age of Exploration; in addition students will study the great religions and their impact on civilization. Basic historic and current geography will be taught. Particular emphasis will be given to the skills of persuasion, critical thinking, intellectual risk taking as well skills in reading text, writing, speaking and presentation will be addressed. A distinct effort will be made to make the student a disciplined self motivated learner who can set goals and achieve them with little teacher mediation. The Summit student will be expected to continue course work on an independent basis through the summer for evaluation in September. The final exam for the grade eight curriculum will be in the fall of the grade 9 year.**GRADE 9****SOCIAL STUDIES 9****MSS--09***Prerequisite:* SS 8*Leads to:* SS10*Text:* Crossroads; Oxford Atlas; Origins: History of Canada*Description:* Geographic skills related to location, climate and landform are taught with world history from 1600 to present - topics include War and Revolution, Industrial Change, Nationalism, Imperialism, the rise and fall of New France and Canadian History from Jacques Cartier to the rebellions of 1838.**SUMMIT SOCIAL STUDIES 9****MSS--09SUM***Prerequisite:* A or B standing in SS 8 plus recommendation*Leads to:* SS 10 Summit*Texts:* World History; Canadian Oxford School Atlas; Geographic Essentials*Description:* Summit 9 will continue the focus begun in grade eight with the grade 9 curriculum. Students will be expected to write several persuasive papers during the year using their own research to enhance the classroom studies. The larger connections or big ideas of history will be studied through the medium of the curriculum. The IRP includes the study of revolution in America, England, and France as well as the Industrial Revolution, and Canadian studies from Jacques Cartier to the Rebellions of 1838. Once again the student will be instructed in the skills necessary to become a strong independent learner.**GRADE 10****SOCIAL STUDIES 10****MSS--10***Prerequisite:* SS 9*Leads to:* SS 11*Texts:* Our Land: Building the West, Challenges of the West Canada and the World*Description:* This course focuses on Canadian History 1838 to 1914: Rebellions, Confederation, West Ward Expansion, Geography and Economy of Canada and the Pacific Rim. There is use of GIS (Geographic Information Systems).**SUMMIT SOCIAL STUDIES 10****MSS--10SUM***Prerequisite:* A or B standing in SS 9 plus recommendation*Leads to:* SS 11*Texts:* Challenge of the West; Canadian Oxford School Atlas; Geographic Understandings*Description:* In the final year of the Summit program in Social Studies students will cover the curriculum from 1838 to 1914 in Canadian studies. In addition there will be an in depth study on the CPR and the creation of a National Identity. In this year students will demonstrate their mastery of the skills learned in the grade 8 and 9 years, through presentation, and the persuasive essay, in addition an original research proposal into an aspect of Canadian, Vancouver, or personal history will be created.**SOCIAL STUDIES (continued)****GRADE 11**

## SOCIAL STUDIES 11

MSS--11

*Prerequisite:* SS 10

*Leads to:* GEO 12, HIST 12, LAW 12, EC 12, COMP CIV 12, PHIL 12

*Text:* Canada - A Nation Unfolding; Towards Tomorrow: Geography, History, Government

*Description:* This course focuses on three major units: (1) Canada in the Global Village: issues examined include population, development, resource use, and urbanization. (2) Contemporary Canadian Society: an examination of Canada's role in the World Wars and events to 1960. Issues include immigration, multiculturalism, and the Canadian identity. (3) Canadian Government, Law, and Politics: Examines the structure of government and the Electoral System, Criminal & Civil law systems, and the Constitution/Charter of Rights.

## GRADE 12

### COMPARATIVE CIVILIZATION 12

MCCN-12

*Prerequisite:* SS 11 (Grade 11 students will be admitted to this course).

*Texts:* Newman & DeGreer, *Odyssey Through the Ages*; Haberman & Hundey.

*Description:* Comparative Civilization 12 analyzes the origins and development of civilization from pre-civilization and the first civilizations (Mesopotamia, Egypt, India, and China), to the roots of Western Civilizations (Greece and Rome). The emphasis of the course is on human change over time, including examination of belief systems, philosophy, cultural achievement, and impact on modern societies.

### ECONOMICS 12

MEC--12

*Prerequisite:* SS 11 (but may be taken concurrently)

*Description:* This is a course that takes a fundamental look at one of the key forces that shape our lives: scarcity. This course is a complete introduction to Micro Economic concepts: supply and demand, elasticity, monopoly, etc. Macro Economic issues of banking, Money supply and Unemployment are addressed. In addition the history of Economic thought from Adam Smith to J.M. Keyens is taught. If you do not wish to be a victim of the marketplace, this is the course for you. Economics is recommended to anyone who is interested in Business, Law, Commerce, or Political Science.

### GEOGRAPHY 12

MGEO-12

*Prerequisite:* SS 11

*Leads to:* Graduation

*Texts:* Earth Dynamics; Canadian Oxford School Atlas, 7<sup>th</sup> Edition; Landforms; Geography

*Description:* Geography is the science of space and place. It is an integrative discipline that brings together the physical and human dimensions of the world in the study of people, places, and environments. Its subject matter examines the basic physical principles and processes that govern climate, landform, vegetation and soil systems on the Earth's surface as well as exploring natural and human induced changes in environmental systems through time. Note: This is a provincially examinable course.

### HISTORY 12

MHI--12

*Prerequisite:* SS 11

*Text:* Howath, 20<sup>th</sup> Century: The World Since 1900; DeMarco, The World This Century; Rundle, International Affairs; Twentieth Century Viewpoints; Catchpole, Map History of the Modern World.

*Description:* History 12 examines the geo-political, economic, and social developments of the 20<sup>th</sup> century from 1917 to 1992; from the Russian Revolution to the fall of the Soviet Empire. War, oil, automobiles, and protest are all part of the conflict and change in the past century. The course focuses mainly on the European, Russian, and American experience with forays into the Middle East, Africa, Latin America, and Asia. A solid grounding in the Canadian historical experience of the 20<sup>th</sup> century is an asset. Note: This is a provincially examinable course.

### LAW 12

MLAW-12

*Pre/Co-Prerequisite:* SS 11

Law 12 provides you with basic knowledge about Canada's legal system and legal procedures.

*Topics:* 1. **Foundation of Law:** History of Law, Constitution, Charter of Rights, Human Rights.

2. **Criminal Law:** Arrest to Trial, Criminal Code, Defenses, Sentencing.

3. **Tort Law:** Negligence, Liability.

4. **Contract Law:** Offer, Consideration, Acceptance, Breach, Remedies.

5. **Family Law:** Marriage, Separation, Divorce, Dispute Settlement Strategies, Wills.

Case Studies, class discussion, role play and mock trials form the basis for this course. Speakers from law-related field and court watching will form part of the practical portion of this course.

*Goal:* Development of thinking, articulation, and writing skills using the legal medium. Developing critical awareness of legal issues and problem-solving skills.

*Text:* **Law in Action**, Law in Action complimentary website, current materials.

## SOCIAL STUDIES (continued)

## GRADE 12

## PHILOSOPHY 12

YPHIL12

*Prerequisite:* SS 10

*Description:* Philosophy 12 parallels the first year curriculum of philosophy at Simon Fraser University. The course is an introduction to:

**ethics:** the study of right and/or wrong

**epistemology:** the study of how we know if something is true or not

**logic:** the study that gives you the tools to tackle all sorts of claims

**metaphysics:** the study of the possibility of God or gods; whether there exists things that are not physical

**philosophy of the mind:** Does the mind exist as a purely physical extension or not?

**Philosophy of science:** you will be able to determine when scientific claims are valid or not

Other philosophical disciplines such as feminist philosophy, ancient Chinese philosophy, and political philosophy will be discussed. The course is dedicated to developing the principal tools of philosophical inquiry: comprehension, analysis, and critical evaluation.

## B.C. FIRST NATIONS STUDIES 12

MFNS12

*Description:* B.C. First Nations Studies 12 is open to all Grade 11 and 12 students. This course examines the history and culture of B.C.'s aboriginal peoples from before the arrival of Europeans to the present day. The course examines the impact of colonialism and how First Nations peoples have resisted and adapted to a changing environment, as well as examining aboriginal cultural expression through art, literature and film. There will be several guest speakers as well as several field trips. This is a four-credit course with a provincial exam in June.

# APPLIED SKILLS

## BUSINESS EDUCATION

NB. Some assignments completed in Business Ed courses may qualify as portfolio evidence providing criteria are met for portfolio organizer.

### APPLIED SKILL 8

XAT--08AS

*Description:* This course is an introduction to Business Education. Students will learn how to keyboard by touch as well as learn about banking, economics, marketing and entrepreneurship. Emphasis is on hands-on work and participation in class activities.

### BUSINESS EDUCATION 10

MBEG-10SEM

*Note:* One semester

*Description:* Business Education 10 is an introductory Business course that will introduce students to the areas of finance, accounting, marketing and business management as well as entrepreneurship. Activities will be practical and hands-on.

### COMPUTER COMMUNICATIONS & KEYBOARDING 10

MBEC-10SEM

*Prerequisite:* None

*Note:* This is a one semester course for Grade 9 and 10 students.

*Leads to:* KB11 and/or BCA11

*Description:* The emphasis in this course is to learn to use the computer keyboard by touch to enter data and information quickly and efficiently. You will learn to use your computer as a communication tool. Keyboarding is a valuable skill that lets you unlock the power of your computer in all applications. Students will learn the correct ergonomics of computer use and the correct method to touch typing for data and information entry. There will be an emphasis on advanced formatting, proofreading, spelling and editing skills that will help to improve literacy skills. This course will help get the most out of a computer to produce high quality reports, essays, business letters and school projects. The skills acquired will be very useful in both personal and business application.

### KEYBOARDING 11

YCPKC11

*Note:* This course is intended for senior students in Grade 11 and 12. It is a full year course.

*Prerequisite:* None

*Description:* Keyboarding 11 is a course for senior students who wish to develop a keyboarding skill if they do not have any keyboarding ability already. Students will learn basic and advanced word processing and to keyboard at an effective personal level.

# APPLIED SKILLS (Continued)

## BUSINESS EDUCATION

## **BUSINESS COMPUTER APPLICATION 11**

**MBCA-11**

*Prerequisite:* Previous BEC10 or KB11 concurrently, if the student cannot type by touch on the keyboard, or by consultation with the business education teacher.

*Leads to:* BIM 12

*Description:* This is an introductory, hands on course in computer applications. The students will be introduced to the basics of an integrated software package (MS Office 2003) for the preparation of business and personal communications. Students will become proficient in the use of the basic functions of word processing (MS Word), database (MS Access), spreadsheet (MS Excel) and presentations (MS PowerPoint). Students will also continue to develop their keyboarding skills to an intermediate business employment level. These essential skills will result in a marketable business skill that will help gain employment. Students will be able to use the skills that they acquire everyday in the preparation of professional looking essays, reports and school projects.

## **BUSINESS INFORMATION MANAGEMENT 12**

**MBIM-12**

*Prerequisite:* Business Computer Application 11 (BCA 11)

*Leads to:* This hands-on computer based course leads to post secondary programs in legal, medical and office technology at local colleges. It is also beneficial for obtaining entry level secretarial, clerical and computer-based jobs requiring word processing and related skills.

*Description:* Students will learn the advanced functions of MS Word and WordPerfect and continue to develop their keyboarding proficiency to advanced business employment standards. Students will also learn to integrate more advanced functions of database (MS Access), spreadsheet (MS Excel) and presentations (PowerPoint) into word processing documents such as creating advertising brochures and newsletters. The skills learned in this course will provide excellent entry-level job skills as well as the opportunity for further study at local colleges. The skills learned in this course are also very valuable as personal use skills in university and college assignment preparation.

## **MANAGEMENT INNOVATION 12**

**MMI--12**

*Prerequisite:* None

*Leads to:* Further study in business at college or university

*Description:* This course introduces students to the skills and concepts necessary to be a manager in a business. Students will learn about how business is organized and functions. Students will also learn the essential skills and knowledge of the management of business resources. Management theory and styles will be studied as they apply to different areas of business such as personnel, marketing, accounting and the production function. Students will also use computers to complete some assignments and projects in this class. Students will also develop strong written and verbal skills in this class through presentations and projects.

**All students in a Business Education career preparation program are recommended to take this course.**

# **ACCOUNTIN**

Those students planning to take business courses at the post-secondary level **are strongly urged** to take at least one accounting course before leaving Tech. Any student thinking of starting his/her own business and/or managing a business in the future should also take some accounting.

## **ACCOUNTING 11**

**MAC--11**

*Prerequisite:* None

*Leads to:* ACC 12 and/or FAC 12

*Description:* This is an introductory course that is intended to acquaint students with the basics of accounting and introduce students to computer-based accounting. Students will learn traditional double entry accounting procedures and will apply their knowledge to solving business problems in accounting. This course provides students with practical knowledge and opens the door to further study in accounting and business.

## **ACCOUNTING 12**

**MACC-12**

*Prerequisite:* AC 11

*Description:* This course is computer-based. The student will learn to use up-to-date industry standard software programs such as Simply Accounting, Excel and Power Point. Additional accounting knowledge is acquired, such as Special Journals, Payroll, and Taxation. Students will learn to prepare and present financial statements to clients through business simulations using computers.

## **FINANCIAL ACCOUNTING 12**

**MFA--12**

*Prerequisite:* AC 11 preferred, or by consultation with the teacher.

*Description:* Students will learn advanced concepts of financial accounting which will enable them to develop analytical, decision-making and communication skills needed in today's business world. This course is intended for those students who are going on to college or university to study Accounting, Finance, Business Management or Commerce. It will also be useful to students intending to pursue an Accounting Designation (i.e., CA, CGA, or CMA) or enter the business world directly from high school.

# **APPLIED SKILLS (Continued)**

## **BUSINESS EDUCATION**

### **MARKETING**

## MARKETING 11

MMK--11

*Prerequisite:* None

*Leads to:* MK 12 and employment in retail stores.

*Description:* This course is an introduction to marketing with a strong focus on retail marketing. Topics of study include starting a retail business, sales promotion, advertising, personal selling, market research and retailing theory and practice. Students will operate the Talishop and plan and create a window display as part of their studies, and must commit some time outside of class time to do this. Students gain practical experience from the activities and projects in this course.

## MARKETING 12

MMK--12

*Prerequisite:* MK 11 (preferred)

*Leads to:* Post secondary college and university study

*Description:* This course is a study of the theory of marketing. Students will learn about marketing in a global environment. Projects and group activities will be used to provide practical application of theory. Students will have to spend time outside of the regular class time to complete some projects (e.g. plan and create a window display). Students achieving a "B" or better are eligible to receive credit at Capilano College for Marketing (BMKT 161).

## COMPUTER STUDIES

### INFORMATION TECHNOLOGY 10

MINT-10

*Note:* One semester

*Prerequisite:* None

*Description:* In this introductory course students will learn how to use Microsoft Word, Excel, PowerPoint and FrontPage - programs widely used in both education and business applications. Students will also learn to create a web page as well as improve their keyboarding skills. The course is designed with practical hands-on exercises to demonstrate how each of the software applications can be used in real life situations. Further courses in computer studies are Information Technology 11 and 12, Business Computer Applications 11 and Business Information Management 12.

## HOME ECONOMICS

### CLOTHING & TEXTILES

#### CLOTHING AND TEXTILES 10

MHET-10SEM

*Prerequisite:* None

*Fee:* \$6.00 will cover the cost of the first craft and skirt. Additional cost will depend upon the student's choice of a second garment and fabric choice.

*Description:* This course will provide students with the skills needed to enjoy sewing as a creative leisure activity or lead to a career in the fashion industry. After a small introductory project, students make a quick skirt from a pattern on the computer. A second garment may be: pants, skirts, dresses, pajamas, or polar fleece sports wear. Boys will make pants as an initial garment.

#### FASHION DESIGN 11

YFASD11

*Prerequisite:* HET10Z

*Credit:* (2 credits Applied Skills and 2 credits Fine Arts). Graduation Portfolio requirements will be met.

*Fee Cost:* There is an initial cost of \$20 for patterns and fabric to complete pajamas bottoms, hoodie and tank top. The student does have the option of purchasing their own fabrics. Additional cost depends on the student's selection of fabrics for their garments.

*Description:* This course includes: advanced clothing construction techniques and study of fabrics. A minimum of 4 garments, using a variety of construction techniques, are completed. Students are encouraged to experiment and problem solve with different fabrics and become competent on a variety of machines/sergers in the room. Garments may include: pants, sportswear, party dresses, skirts jackets, etc. The information covered in this course may lead to careers in the clothing and textile industry including design, production, retail sales and marketing. (Students in grade 11 may start Work Experience).

#### TEXTILES 11

MTEX-11

*Prerequisite:* None

*Credit:* 4 credits (2 Applied Skills)

*Fee:* Cost will depend on the students choice of garments.

*Description:* This is a beginning course which will provide students with the skills needed to enjoy sewing. After an initial craft project we will make a quick skirt. The students then choose the garments they wish to make such as pants, pajamas and dresses. By the end of the course students will be confident using commercial patterns and a variety of sewing machines and sergers.

## APPLIED SKILLS (Continued)

### HOME ECONOMICS

## CLOTHING & TEXTILES

### FASHION DESIGN 12A

YFASD2A

*Prerequisite:* Recommended YFASD11

*Credit:* 4 credits (2 Applied Skills). Graduation Portfolio requirements will be met.

*Leads to:* Employment opportunities in fashion merchandising, design and production.

*Description:* This course provides the student with the ability to design their own garments and/or “copycat” the latest designer fashions. The course covers draping, drafting, flat pattern drafting and computer pattern production. Students are encouraged to combine their sewing skills, knowledge of garment construction and pattern drafting with design principles to create individual and innovative garments. Students may design and make their own grad dresses. Students may complete YWE in Grade 11 or 12.

### FASHION DESIGN 12B

YFASD2B

*Prerequisite:* Recommended YFASD11

*Credit:* 4 credits. Graduation Portfolio requirements will be met.

*Fee:* Cost depends on the students selection of garments.

*Leads to:* Employment opportunities in fashion merchandising, production, designing and visual display.

*Description:* This course will help the student to develop an insight into the attitudes and skills required to be successful in the fashion design, production and merchandising field. An examination of current “Fashion in the News,” Canadian and international designers expands ones horizons in the world of design. Principles of design can be applied to a wide range of projects including: window design, fabric & paper design, and interior decoration. Students will further their design and sewing construction skills by creating garments for themselves and friends. Often a student will design and sew her grad dress.

### TEXTILES 12A

MTEX-12

*Prerequisite:* CT 10, YFASD11

*Credit:* 4 credits (2 Applied Skills) Graduation Portfolio requirements will be met.

*Fee:* Cost will depend on the student’s choice of fabric for their garments.

*Description:* This course includes advanced sewing construction and tailoring techniques. The students are encouraged to use and research the information needed to sew on specialty fabrics such as leather, chiffon, velvets, knits, stretch, etc. Artistic detailing such as piping, quilting, smocking, embroidery, and beading, are also explored. Completion of four garments is possible by using efficient methods of clothing construction.

## FOOD & NUTRITION

### FOODS 10

MHEF-10SEM

*Prerequisite:* None

*Leads to:* FDS 11

*Text:* Food for Life

*Description:* This course is designed to assist the student in acquiring basic cooking skills, through the preparation of a variety of simple breakfast, lunch and dinner dishes. Meals include: omelette, stir fry, vegetable buffet, and dishes containing pasta, poultry, and beef. All meals can be adapted to suit vegetarian diets. In addition, the students will prepare a variety of baked goods such as muffins, biscuits, and cookies. In sum, this course emphasizes good nutrition, and efficient use of time, energy, and equipment.

### FOODS 11

MFDS-11

*Prerequisite:* None

*Credit:* 4 credits (2 Applied Skills). Graduation Portfolio requirements will be met.

*Leads to:* FDS 12

*Description:* This advanced foods course provides opportunities to plan, prepare and evaluate a variety of international dishes. Students will have the opportunity to learn culinary skills and to develop an appreciation for the uniqueness of each country’s cuisine and customs. The aim of this course is to help students gain knowledge and skills needed to make a wide range of healthy meals and to make informed choices about the foods they consume.

### FOODS 12

MFDS-12

*Prerequisite:* Recommended FDS 11 and/or CUA 12

*Credit:* 4 credits (2 Applied Skills). Graduation Portfolio requirements will be met.

*Text:* Current food magazines and articles on Nutrition.

*Description:* In this advanced course students will design, prepare and appreciate new flavours and dishes while exploring the relationships between food and art. Students will also become familiar with etiquette and food presentation skills that are used in the industry. The aim of this course is to help students become healthy gourmets and achieve a standard of excellence in preparing dishes using proper technique and presentation skills.

## APPLIED SKILLS (Continued)

## HOME ECONOMICS

## HUMAN SERVICES

The Human Services courses are focused on developing the knowledge, attitudes, and skills required for a career related to meeting the needs of people of all ages.

### HUMAN SERVICES 11A

MHS--1A

*Prerequisite:* completion of Grade 10

*Credit:* 4 credits (2 Applied Skills). Graduation Portfolio requirements will be met.

*Leads to:* HS 12A & HS 12B and careers in social and human services.

*Description:* This course focuses on the well-being of the individual, the family and the community. Students will look at the human life cycle and one's part in it. Topics include: communication; decision-making; self-awareness; adolescence; infant and child development (including the role of the parent), exceptional children, daycare and community resources for the family.

### HUMAN SERVICES 12A

MHS--2A

*Prerequisite:* HS 11A

*Credit:* 4 credits (2 Applied Skills). Graduation Portfolio requirements will be met.

*Description:* In Human Services 12A, students will learn about human growth and development and changes in family composition – expanding families, members leaving and returning. Topics include: mate selection, marriage, parenting, multicultural families, and the stages of adulthood – single, newlywed, middle age, and old age. This course focuses on the well-being of individuals and families within the community. Career opportunities in family and child services will be explored.

### WORK EXPERIENCE 12

MWEX-2A

*Credit:* 4 credits

*Leads to:* Work Experience Certificate, hands-on experience working with different age groups of people (preschool-aged children, elementary school-aged children and seniors) and explore career paths in Human Service fields.

## CAREER PREPARATION

Tourism, one of the **world's fastest growing industries**, provides more employment opportunities than any other industry. It is a diverse industry which offers opportunities in accommodations, food and beverage, adventure tourism, transportation, and events and conferences. The course offers several fieldtrips which allows students to experience and see first hand the tourism industry at work. In addition, Work Experience in Tourism will allow for the combination of classroom studies and practical experience in the tourism industry. Students may continue their studies in tourism diploma or degree programs at colleges and universities.

### TOURISM 11

MTRM-11

*Prerequisite:* Grade 10

*Credit:* 4 credits (2 Applied Skills).

*Leads to:* TRM 12

*Description:* This is an introductory course which focuses on the accommodation, food and beverage, transportation, and adventure tourism sectors of the industry. Also included in this course is a practical unit on food service, where restaurant serving skills are developed. In addition, certification in Foodsafe and serving it right will be offered. This is an interactive class, where students will gain knowledge and skills for entry into the work force.

### TOURISM 12

MTRM-12

*Prerequisite:* Tourism 11

*Credit:* 4 credits (2 Applied Skills).

*Leads to:* Marketable skills for entry level employment in the tourism industry and Work Experience

*Description:* Students will continue to develop their employability skills in order to be successful in the tourism industry. For instance, communication and customer service skills will be learned through the SuperHost Certificate program. In addition, local and international travel destinations will be covered extensively, as well as information required to travel internationally (such as Canada Customs & passports). Careers in tourism will be covered, allowing students to research a possible career path.

### WORK EXPERIENCE 12A

MWEX-2A

*Credit:* 4 credits

*Leads to:* Work Experience Certificate and marketable skills.

*Description:* Provides hands-on experience working in the tourist industry. Students are required to complete a minimum of 100 hours of on the job training. Placements are in hotels, restaurants, travel agencies, tour companies, and recreation centres.

## APPLIED SKILLS (Continued)

### HOME ECONOMICS

## CULINARY

Students will prepare food during the morning classes. Second period classes are required to serve lunch. In return, a food allowance is allotted. Fourth period classes are rescheduled for 7:45 a.m.

### CAFETERIA TRAINING 11, CAFETERIA TRAINING 12

MCAFT11/MCAFT12

*Prerequisite:* FN 10 is strongly recommended

*Credit:* 4 credits (2 Applied Skills)

*Description:* This is an introductory course (Cafeteria Training 11) to commercial cooking procedures and techniques. Cafeteria Training 12 is a more in-depth course of the same. While the emphasis is on quantity food production, the principles and skills learned may also be applied in the home. Students will also learn management and cashiering skills, inventory control, as well as counter and table service. Students will develop valuable skills which can be used to obtain employment.

## HAIRDRESSING

### HAIRDRESSING ACE IT 11

YHA--1A/B/C

*Prerequisite:* Grade 10

*Credit:* 3

*Leads to:* CPHA 12

*Equipment Cost:* \$550.00. This equipment covers the text books and the necessary tools which becomes the property of the students.

*Description:* This is the first course of the Hairdressing Certification. Students who qualify will be eligible to apprentice in a Salon while attending school and continuing with core subjects. The first year of the Hairdressing Program consists of three blocks, while the remaining time is spent completing regular foundation courses such as English, Social Studies and Math.

*Learning Outcomes:* Hair sculpture, Hair Styling, Long Hair Styling, and People Skills. The student will practice on mannequins and eventually these skills will be transferred to clients in the Van Tech Hair Studio.

### HAIRDRESSING ACE IT 12

YHA--2A/B/C/D

*Prerequisite:* successful completion of Hairdressing 11

*Equipment Cost:* \$300.00. This equipment cot covers the additional tools not yet needed in Grade 11 Hairdressing. These tools become the property of the student.

*Description:* This second year course consists of continuing skills learned in Grade 11, polishing those while learning more. Students are now usually employed as ACE IT Apprentices on a part-time basis and continue to complete their foundation courses such as English, Math, Social Studies...etc. This is a four block course which gives the student a strong lead to a career choice.

*Learning Outcomes:* Hair Sculpture level 2, Men's Cutting, Hairstyling Level 2, Hair Colouring, Salon Management, and continued practice on clients in the Van Tech Hair Studio which help the student develop skills taught at the work placement and at school. If the student apprentices, the student may write his/her Provincial License Exam and become a fully qualified Hairdresser.

## PHYSICAL EDUCATION

### GRADE

### PHYSICAL EDUCATION 8

MPE--08B/MPE--08G

*Leads to:* PE 9

*Content chosen from:* Dance: square, folk, line; Team Sports: field hockey, rugby, basketball, volleyball, soccer, softball; Individual Sports: track & field, wrestling; Gymnastics: Olympic, rhythmic; Fitness & Theory: weight training, active health.

*Field Trip Fee:* \$15.00

*Description:* PE 8 is an introduction to a variety of sports and activities. Students will develop the skills, knowledge and fitness to participate in these activities with confidence. Students will be taught by lecture, personal exploration, group cooperation, and appropriate competition, and will be aided in their learning by demonstrations, notes, and occasional slides and films. Marks will be based on skill tests, knowledge tests, fitness tests, and an attitude and effort mark.

## APPLIED SKILLS (Continued)

## PHYSICAL EDUCATION

## GRADE

### PHYSICAL EDUCATION 9

MPE--09B/MPE--09G

*Prerequisite:* PE 8

*Leads to:* PE 10

*Content chosen from:* Team Sports: volleyball, basketball, soccer, lacrosse, football; Individual Sports: track & field, badminton, wrestling; Dance: square, folk, line; gymnastics: Olympic, rhythmic; Aquatics: swimming, Fitness & Theory: weight training, active health, water safety.

*Field Trip Fee:* \$30.00

*Description:* PE 9 will further develop some of the activities introduced in Grade 8 and introduce new activities in team sports, individual sports, first aid and safety.

## GRADE

### PHYSICAL EDUCATION 10

MPE--10B/MPE--10G

*Prerequisite:* PE 9

*Leads to:* PE 11

*Content chosen from:* Team sports: team handball, volleyball, basketball, lacrosse, football; Individual Sports: bowling, tennis, badminton, racquetball; Dance: square, line, jazz; Fitness & Theory: weight training, aerobics, nutrition; CPR; Gymnastics: rhythmic; Outdoor Pursuits: canoeing.

*Field Trip Fee:* \$40.00

*Description:* PE 10 further develops the students' motor skills and knowledge of sports and activities while also leading students to appreciate the value of personal health and fitness. Since this may be the last Physical Education course taken by some students, an attempt is made to orient the student to a variety of leisure time activities and to personal fitness assessments and lifestyle management.

## GRADE 11 &

### PHYSICAL EDUCATION 11 and 12

MPE--11/MPE--12

*Prerequisite:* PE 10. PE 11 and 12 will be offered in split classes. Content will vary on a year one/year two basis. PE 11 is a prerequisite for PE 12.

*Credit:* 4 credits

*Field Trip Fee:* \$80

*Field Trips:* Field trips will likely include ice skating, canoeing, bowling, golf, martial arts, billiards, curling, an optional overnight ski trip, and others.

*Description:* This course is meant to prepare the student for an adult life of activity, health and social responsibility. The main focus is a board survey of recreational activities.

### LEADERSHIP 11/12

YLEAD11/YLEAD12

*Description:* Leadership 11/12 will deal with the theoretical and practical applications of human relations. The goal: to develop Youth Leadership to deliver a variety of community based physical recreation and sports activities for elementary school aged children in the Vancouver Tech "Family of Schools". Students will have an opportunity to obtain recognized certification in coaching (NCCP Level 1 in one sport), first aid (St. John's Ambulance), and officiating (in one sport or more). Time in class will be spent understanding the basic concepts of proactive leadership and how to effectively use the concepts in life and within the school environment. The students will also develop peer mediation (restorative action) skills, learn how to run meetings and put into use efficient public speaking skills.

### FITNESS 11/12

YFTN-11/YFTN-12

*Prerequisite:* PE10

*Description:* This course incorporates concepts necessary for a lifetime of physical fitness and health. Through a variety of classroom instruction and physical activities, this course emphasizes the development of skills and knowledge of fitness, self image, personal growth, and social well being. Students will participate in activities that improve flexibility, cardiovascular endurance, muscular strength, body composition, and other activities that emphasize the importance of lifetime health and the benefits gained by maintaining physical fitness.

## APPLIED SKILLS (Continued)

## TECHNOLOGY EDUCATION

## AUTOMOTIVE

### AUTOMOTIVE TECHNOLOGY 11A/11B

MAT--11

*Prerequisite:* None

*Leads to:* AT12, ATE12, ATD12

*Fee:* some material costs

*Credit:* 4 credits; fulfills the 2 credit Applied Skills 11 graduation requirements

*Description:* An introductory automotive course which allows the student to study the theory and practice of a number of vehicle systems. The successful student will acquire skills which will: (1) allow the future vehicle owner to perform a variety of service procedures on his or her own vehicle; (2) assist the individual in becoming a knowledgeable consumer of automotive products and services; and (3) enable him or her to make an informed decision regarding a possible career in some aspect of the automotive industry.

### AUTOMOTIVE TECHNOLOGY

MAT--12/MATE-12

*Prerequisite:* AT11

*Leads to:* direct employment, post secondary training, apprenticeship in the automotive industry

*Fee:* some material costs

*Credit:* 4 credits

*Description:* An advanced automotive course in which the student applies the knowledge and skills acquired in MX 11 to develop more specific diagnostic and service abilities which will be useful to the student who would like to pursue a career in the automotive industry. The double block format allows for the instruction and shop practice. In addition to offering "pre-trade" training, AT12/AT12E also addresses the needs of those students who would like to learn more about the automotive industry from a consumer's perspective. Students will learn correct service and maintenance procedures and procedures for obtaining required automotive services as a vehicle owner. Students will also be involved in the examination of the automotive industry from a broader perspective. For example, students will examine the environmental effects of the automobile and will develop solutions for specific problems created by this form of transportation.

**Note:** This is a double block course. Some provision may be made for those students who cannot timetable a double block course. Teacher approval is required.

### AUTOMOTIVE TECHNOLOGY

MATD-12

*Prerequisite:* AT12/ATE12 however, this course may be taken during the same year as the prerequisite

*Leads to:* direct employment, post secondary training, apprenticeship in the automotive industry. *Description:* ATD12 emphasizes advance training in Engine and Drive Trains Systems. It also allows the student to spend more time in shop practice. Teacher approval required.

### BASIC CAR CARE

YCC--11

In Car Care 11, our main objective is to provide the students will a well rounded knowledge about automobiles in general. When students leave this course they will be capable of buying, maintaining, acquiring, servicing and operating a vehicle. At the conclusion of this course students will learn how to work safely in an automotive shop environment; understand the basic maintenance requirements of an automobile; approach buying an automobile with knowledge and confidence; and consider the operation of an automobile in respect to cost, life expectancy and safety.

## DRAFTIN

### 3D DRAFTING AND DESIGN 10

MTED-10SEM

*Prerequisite:* None

*Leads to:* 3D Drafting and Design 11

*Description:* This is an introductory course in 3D Drafting and Design. Students will begin by learning the basics of manual drafting. From there, students will explore 3D drawing using advanced 3D CAD software in our state of the art 3D drafting computer lab. Students will use their newly acquired knowledge of this software to design and create new and exciting projects. You will learn how to create 3D objects, improve existing objects, and finally present your own creations using industry standard CAD software. This is an exciting fast paced course that is great for any student interested in industrial design, computer gaming graphics, or animation.

## APPLIED SKILLS (Continued)

## TECHNOLOGY EDUCATION

**3D DRAFTING AND DESIGN 11****MDDF11***Prerequisite:* None**DRAFTIN***Leads to:* 3D Drafting and Design 12*Credits:* 4 credits

*Description:* This is an introductory course in 3 Dimensional Drafting and Design. As with previous courses, students will start off by learning the basic principals of manual drafting. Students will then take this knowledge and apply it in our state of the art 3D drafting computer lab. Students will learn using 3D drawing software currently used in industry by many professional designers. Through individual and group work students will learn to modify and create everyday objects. At the end of the course students will be responsible for designing and creating a small 3D environment complete with all necessary objects and furniture.

**3D DRAFTING AND DESIGN 12 (ARCHITECTURE AND HABITAT DESIGN)****MDDH-12***Prerequisite:* 3D Drafting and Design 11*Leads to:* Post secondary education*Credits:* 4 credits

*Description:* This course can be taken as a single block or paired with Engineering and Mechanical Design to form a double block of Drafting and Design 12. This course emphasizes furniture, room, and building design. Students will start by learning how to design simple and then complex furniture using 3D drawing software. As students progress through this course they will have a chance to design a room of their choice. Previously this has been everything from bedroom to an arcade. As a final project students design a complete 3D building and all of the elements and objects in it. After the building has been designed on the computer the students are challenged to create a scale model of their building design.

**3D DRAFTING AND DESIGN 12 (ENGINEERING AND MECHANICAL DESIGN)****MDDE-12***Prerequisite:* 3D Drafting and Design 11*Leads to:* Post secondary education*Credits:* 4 credits

*Description:* This course can be taken in conjunction with Architecture and Habitat Design 12 (DDH12) to form a double block of 3D Drafting and Design 12. When taken as a double block, 3D Drafting and Design 12 students will focus more on learning the fine details of 3D drawing. Students will have more time to learn the advanced features of the 3D computer assisted drawing software. Students will also take on extended more advanced projects due to the increased time of a double block.

**DRAFTING AND DESIGN 12 (ADVANCED DESIGN)****MDDA-12***Prerequisite:* 3D Drafting and Design 11*Leads to:* Post secondary education*Credits:* 4 credits

*Description:* This course can be taken in conjunction with Architecture and Habitat Design 12 (DDH12) to form a double block of 3D Drafting and Design 12. When taken as a double block, 3D Drafting and Design 12 students will focus more on learning the fine details of 3D drawing. Students will have more time to learn the advanced features of the 3D computer assisted drawing software. Students will also take on extended more advanced projects due to the increased time of a double block.

**ELECTRONICS****ELECTRONICS 10****MTEE-10SEM***Prerequisite:* None*Leads to:* EL 11*Fee:* Some material costs

*Description:* This course introduces the study of electricity and electronics through experiments, theory, and hands-on building projects. Students will study basic electronic theory, color code, power supplies, voltmeter, bread boarding component identification, soldering, electronic symbols, and schematic diagram drawings. Students will build a number of projects which use any or all of the above electronic practices in their exploration of the importance electricity and electronics plays in everyday life. Students may build a Touch On-Timed Off L.E.D. display system, muscle stimulator, and a variety of other circuits.

**APPLIED SKILLS (Continued)****TECHNOLOGY EDUCATION****ELECTRONICS**

## **ELECTRONICS 11 (JUNIOR DIGITAL)**

**MEL--11**

*Prerequisite:* EL 10

*Leads to:* EL 12, B.C.I.T. – electronics programs (a) trades 1-2 years, (b) technology programs 2-3 years, (c) university 4+ years program

*Credit:* 4 credits; fulfills the 2 credit Applied Skills 11 graduation requirement

*Description:* This course introduces Electricity/Electronics career awareness within the context of social issues, health and safety, tools and equipment, systems, circuits and components. This course is a mixture of analog and digital circuits and systems. Students will become familiar with Ohm's Law as applied to series, parallel and combination circuits; a broad range of active and passive devices; the use and function of electronic/electrical devices; breadboarding circuits; power supplies; test equipment; a variety of integrated circuits; digital logic gates; audio amplifiers; computer aided drafting; printed circuit boards; and troubleshooting/problem-solving circuit problems. Students will build experimental circuits on breadboards as well as complete take home projects.

## **ELECTRONICS 12**

**MEL--12**

*Prerequisite:* EL 11

*Leads to:* EL 12, B.C.I.T. – electronics programs (a) trades 1-2 years, (b) technology programs 2-3 years, (c) university 4+ years program

*Credit:* 4 credits. Can be taken concurrently with ELAS 12 & ELDS 12

*Description:* This course focuses on design and problem solving in electronics and electricity. It will concentrate on health and safety, careers and society, tools and equipment, production and management and individualized project design. Students will become familiar with: operational amplifiers; transistor amplifiers; passive and active filters; advanced logic gates; PC board design and fabrication, test equipment, chassis fabrication, measurement of circuit parameters, use and interpretation of manufactures data sheets, schematic drawings, time constants and simulation software. Technical communication skills will be developed through exposure to electronics systems. Students will assemble simple to complex circuits for personal, school or community use.

## **ELECTRONICS 12 (ANALOG CIRCUITS & SYSTEMS)**

**MELAS12**

*Prerequisite:* EL 11 OR EL 12

*Description:* Students will become familiar with power supplies, amplifiers and converters. Students will be able to describe, interpret and use the following analog concepts; waveforms; duty cycle; period; impedance; frequency filters; attenuation; feedback; distortion; noise; gain; and ground loops. Input and output devices commonly used in analog circuits will be used to familiarize students with analog interfacing. Students will design and build an analog based project, use test equipment to measure the input and output, document the design process and give a presentation of the product (design process). An example project would be an audio amplifier capable of producing 10-200 Watts of rms power.

## **ELECTRONICS 12 (DIGITAL SYSTEMS)**

**MELDS12**

*Prerequisite:* EL 11

*Credit:* 4 credits

*Description:* Students in this course will learn how the following digital logic circuits function: logic gates, counters, registers, decoders, converters, encoders, microcontrollers /microprocessors. Students will learn to describe the following digital concepts: Boolean Logic, Truth tables, programming in machine and assembly language. Students will identify input and output devices used with digital circuits. Students will use test equipment in the design of a digital project for which a document design package for presentation will be produced and presented to others in a formal setting.

## **GRAPHIC**

### **GRAPHICS 10**

**YGAR-10SEM**

*Prerequisite:* None

*Leads to:* YGAR 11A

*Credit:* Fulfills Graduation Portfolio requirements.

*Description:* This course is an introduction to Graphic Communication Design, Systems, and Process.

- 1) Design: composition, digital imagery, typography, desktop publishing.
- 2) Systems: computers, digital cameras, scanners, printers, Internet.
- 3) Process: lithography, darkroom camera, plate-making, printing presses, bindery.

Students learn through practical activities producing such things as buttons, portfolios, decals, dog tags, magazine covers and notepads. We use Apple Macintosh computers and the Adobe Creative Suite 3 applications - *InDesign, Photoshop, Illustrator, Dreamweaver*, and *Apple's iLife*.

## **APPLIED SKILLS (Continued)**

### **TECHNOLOGY EDUCATION**

## **GRAPHIC**

**GRAPHICS 11A****YGAR-11***Prerequisite:* YGAR10 recommended*Leads to:* YGAR 12A/B/C or for general interest.*Credit:* 4 credits; fulfills the 2 credit Applied Skills and 2 credit Fine Arts 11, fulfills Graduation Portfolio requirements.*Description:* Students will have a wide range of opportunities to learn skills in the communication arts, digital imagery, and production printing. Computer designs are followed by “hands on” experiences in such areas as the operation of offset presses, layout work, process photography, darkroom techniques, sublimation printing, sign cutting, and bindery. Computer graphics, promotional video, and desktop publishing using Apple Macintosh computers are emphasized in this course. We will be using the Adobe Creative Suite 3 applications - *InDesign, Photoshop, Illustrator, Dreamweaver, and Apple’s iLife.***GRAPHICS 11B YGAR-1B***Prerequisite:* YGAR11A recommended*Leads to:* YGAR 12A/B/C or for general interest.*Credit:* 4 credits; fulfills the 2 credit Applied Skills and 2 credit Fine Arts 11, fulfills Graduation Portfolio requirements.*Description:* This course can be taken as a single or double block with Graphics 11A. The course focuses on computer design for production work and printing technology. Projects will require students to work in a realistic setting that mirrors a printing plant with a team approach to producing printed products. We use Apple Macintosh computers. The Adobe Creative Suite 3 applications are emphasized in this course.**GRAPHICS 12A****YGAR-12***Prerequisite:* YGAR11A*Leads to:* Post secondary programs or employment in related fields.*Credit:* 4 credits, fulfills Graduation Portfolio requirements.*Description:* Students will further their knowledge of the communication arts, digital design, and printing by learning advanced techniques and methods. Students will create individual, innovative solutions and use graphic designs to communicate these solutions in a variety of ways. Studying Graphics develops students’ understanding, sharpens their perceptions of design, and creates discerning consumers with an awareness of how images influence our decisions. Emphasis will be placed on increased computer design skills and the production of a promotional video. We use Apple Macintosh computers. The Adobe Creative Suite 3 applications are emphasized in this course.**GRAPHICS 12B****YGAR-2B***Prerequisite:* YGAR12A, (may be taken during the prerequisite)*Leads to:* Post-secondary programs or employment in related fields.*Credit:* 4 credits, fulfills Graduation Portfolio requirements.*Description:* This is a specialized commercial printing course with emphasis on the processes of production work and printing technology. Students will further their understanding of how Graphic Communication touches every part of our lives with a practical emphasis on technical skills. Students are involved in doing production jobs for the school, school district, social/volunteer organizations, and industry. This course will emphasize teamwork, communication skills, and a collaborative approach to problem solving and computer design.**META****METAL TECHNOLOGY 10****MTEM-10SEM***Prerequisite:* None*Leads to:* MFM11 or JL10*Fees:* to cover material costs*Description:* This course will teach students a variety of industrial processes. Projects will require students to find solutions to design and manufacturing processes. Students will learn to use a variety of hand and power tools. Theory of industrial processes will be discussed. Welding, machining, sheet-metal and Lost wax Casting (jewellery) will be some of the techniques used to complete projects. Students will be required to work safely in an industrial environment.*Note:* Students will be required to pay for silver material.**JEWELLERY MANUFACTURE 10 (CREATIVE METAL)****MJLAD10***Prerequisite:* None*Leads to:* MFM 11*Fees:* Students will explore Lost Wax casting techniques and processes. The introduction and use of hand tools will be an important component of this course. Students will be required to work safely within an industrial atmosphere.**APPLIED SKILLS (Continued)****TECHNOLOGY EDUCATION****META**

**METAL FABRICATION AND MACHINING 11****MMFM-11**

*Prerequisite:* MTL10 or JL10 recommended

*Leads to:* MFM12

*Fees:* Students will be required to pay for materials used in the manufacture of personal projects

*Description:* Students will have the opportunity to explore a variety of manufacturing processes and develop hand and machine skills. Students will be required to complete assigned projects as well as design and develop their own projects. Students with previous experience in Jewellery 10 will be allowed to develop advanced Jewellery techniques including Lost Wax Casting. This course is ideal for students with an interest in metalwork that might want to continue a career in metal or other trades.

**METAL FABRICATION AND MACHINING 12****MMFM-12**

*Prerequisite:* MFM 11

*Leads to:* Post-secondary Trades Training or employment in related trades.

*Fees:* Students will be required to pay for materials used in the manufacture of personal projects

*Description:* This course is a continuation of MFM11 and will look deeper into machining, manufacture and maintenance. Students will be encouraged to make their own projects. Industrial problem solving during this course will help students pursue careers in a variety of trades.

**METAL FABRICATION AND MACHINING: ADVANCED WELDING 12****MMFMW12**

*Prerequisite:* MFM11

*Leads to:* Post-secondary Trades Training or employment in related trades.

*Fees:* Students will be required to pay for materials used in the manufacture of personal projects.

*Description:* This course is a continuation of MFM11 and will look deeper into aspects of fabrication, manufacture, maintenance and repair. The focus of this course will concentrate on Welding and fabricating principles. Students will learn welding techniques using Oxygen Acetylene torch, Mgaw, Smaw, as well as plasma cutting. Students will be required to problem solve, design, develop and manufacture a variety of shop-based projects. Students will be encouraged to make their own projects. Students will be required to function safely in an industrial environment. Attitudes and knowledge developed during this course will help students pursue careers in a variety of trades.

**METAL FABRICATION AND MACHINING: ART METAL AND JEWELLERY 12****MMFMJ12**

*Prerequisite:* MFM11

*Fees:* Students will be required to pay for materials used in the manufacture of personal projects.

*Description:* This course is a continuation of MFM11 and will look deeper into aspects of applying industrial applications to the creation of Art. The focus of this course will concentrate creativity using machining, welding and casting to complete projects. Students will be required to problem solve, design, develop and manufacture a variety of student-based projects. Students will be required to function safely in an industrial environment.

**HIGH SCHOOL MACHINIST CORE PROGRAM****MMFM-11/MMFMF12**

*Leads to:* BCIT Machinist Core Program or Machinist Apprenticeship

*Description:* This two year course gives students who want to pursue a career in the Machinist trades the opportunity to begin their apprenticeship in high school. Students must apply for acceptance into this program. Space is limited. Candidates should be dedicated students with math skills and an aptitude for applied learning. Students will be required to maintain a Passing grade of 70% in this intensive course. Students will be required to enroll in 2 blocks in their grade 11 and graduating year for a total of 16 credits. In the summer, work placement at a machine shop will allow students to acquire valuable on the job training used towards apprenticeship requirements. In addition, students may be required to spend several weeks at the BCIT machinist training facility covering additional course related materials. Following graduation, students will continue their apprenticeship training at BCIT. Students will be responsible for all personal safety equipment for work experience. If you are interested in this course please contact Mr. Basso or your counsellor for information.

## APPLIED SKILLS (Continued)

### TECHNOLOGY EDUCATION

#### TECHNOLOGY

## TECHNOLOGY 10

MTEG--10SEM

*Leads to:* TECH 2A and senior technical electives

*Description:* Students will identify and examine the needs, wants, and related issues important to individuals and society. They will analyze practical problems individually and in teams; they will propose various solutions; they will learn to use tools and materials to construct and evaluate prototypes. Technology 10 introduces the student to the study of Technology through the theme of power, transportation and communication. Students will learn to follow technical directions and to communicate their ideas to others in a variety of formats. Projects will focus on the study of aeronautics, sources of power, transportation vehicles. Students will learn a formal design and problem-solving procedure and will apply this procedure to the solution of a number of "technical problems." Students will learn to work with a variety of tools and materials in an environment which encourages a practical application of academic learning.

## ENGINEERING TECHNOLOGY 11

YENG-11

*Leads to:* TECH 2A; open to Gr.11&12

*Credit:* 4 credits

*Fee:* depends on the challenges undertaken—up to \$50.00

*Description:* Study in this course will combine theoretical math and physics with practical design and construction of projects. Students will design, build, test, and evaluate tethered wheeled vehicles, submersibles, propulsion systems, and power transfers. Students will build projects in order to compete against other class members and against students from other schools. As a major project, students will be organized in teams in order to design, build, and race an electric wheeled vehicle to compete in the BC Electrathon annual race at Van Tech. This course will require some after school additional work and building time and will require a willingness to problem-solve through trial and error.

## ENGINEERING 12

YENG-2A

*Prerequisite:* The following courses would be beneficial: DRFS1A, 2A, 2B; MX 11, 12; MTL 11, 12; PH11, 12; ELX 11, 12; CPWMT 1, 2; GR 11, 12

*Leads to:* B.C.I.T.; UBC; college; technologist engineering programs

*Credit:* 4 credits

*Fee:* Depends on the challenges undertaken

*Description:* This course brings together the theoretical math and physics concepts with practical construction through projects. Students will design, build, test, and evaluate some or all of the following: tethered wheeled vehicles; autonomous wheeled vehicles submersible vehicles; manipulating arms; control mechanisms (both mechanical and electronic); aircraft (flight); propulsion systems; gear drives — transmissions (power transfer); steering systems. Students will build devices using the above principles to compete on an individual and/or cooperative basis in order to meet the challenges objectives. Students will have the option of designing, building, and racing an electric vehicle to compete in the Electrathon race as a team. A good portion of this course requires innovative problem solving in order to meet the challenges.

## WOOD

### WOOD TECHNOLOGY 10

MTEW-10SEM *Prerequisite:* None

*Leads to:* CJ 11

*Fee:* none required (some material costs on large projects)

*Description:* Wood Technology 10 is an introductory course in machine woodworking. The student will learn and demonstrate safe woodworking practices on a variety of hand tools, portable and stationary power equipment. During the course of this activity instruction will be given in safety, wood technology, basic joinery, design, and wood finishing. Projects will include a folding stool and a choice of a small table. There will be some material costs.

### CARPENTRY AND JOINERY 11

MCJ--11

*Prerequisite:* None

*Leads to:* CJ12

*Credit:* 4 credits; fulfills the 2 credits Applied Skills 11 and 2 credits Fine Arts 11 graduation requirement

*Descriptions:* Carpentry and Joinery is an introductory course in machine wood working where the student will develop an understanding of the materials and processes of the wood-working industry. The focus of the course will be on design and produce development with a strong emphasis on proper procedures and safety. Each student will design, construct, and finish a major furniture project. Students will be encouraged to work as part of a team. Some material costs will be paid by the student.

## APPLIED SKILLS (Continued)

### TECHNOLOGY EDUCATION

## WOOD

**CARPENTRY AND JOINERY 12****MC--J12***Prerequisite:* CPWM 11, CJ 11*Leads to:* Direct employment, trade/technical training, post secondary education*Credit:* 4 credits

*Description:* Carpentry and Joinery 12 is an advanced wood technology course that will broaden the students' understanding of wood working technology and practices. Students will spend the largest portion of class time on the design and product development of a major furniture or cabinet project. Advanced techniques of wood manufacture, wood finishing and safe, efficient shop practice will be emphasized. Some material costs will be paid by the student.

**CARPENTRY AND JOINERY 12 (FURNITURE CONSTRUCTION)****MCJF-12***Prerequisite:* CPWM 11, CJ 11*Leads to:* Direct employment, trade/technical training, post secondary education*Credit:* 4 credits

*Description:* Furniture Construction is designed to give students additional workshop hours to increase their skill and knowledge of woodworking theory and practice as it relates to furniture design and construction.

**CARPENTRY AND JOINERY 12 (CABINET CONSTRUCTION)****MCJC-12***Prerequisite:* CPWM 11, CJ 11*Leads to:* Direct employment, trade/technical training, post secondary education*Credit:* 4 credits

*Description:* Cabinet Construction is designed to give students additional workshop hours to increase their skill and knowledge of woodworking theory and practice as it relates to cabinet construction.

## VISUAL & PERFORMING ARTS

**AR****FINE ARTS 8****XAT--08FA***Prerequisite:* None*Leads to:* AR 10, VA2D 10

*Description:* A one term introduction to basic drawing, painting, printing, and sculpture. Emphasis will be placed on vocabulary, workmanship, originality and care of equipment and materials.

**ART 9/10****MVAG-10SEM***Prerequisite:* None*Leads to:* AF 11, SACS 11, SADP 11

*Description:* Learn about the fundamentals of art: design, colour theory, perspective and composition. Working with a variety of materials this course is designed to develop skills in expressing personal imagery and an understanding of how materials can be used in the creation of finished products. Art history will be presented through film and field trips. The regular use of a sketchbook will be required.

**VISUAL ART 2D 10 (DRAWING & PAINTING)****MVAD-10SEM***Prerequisite:* None*Leads to:* AF 11, SACS 11, SADP 11

*Description:* Learn about the fundamentals of drawing, design, printmaking and painting. Increase your ability to draw and paint. Work with pencil, coloured pencil, pen and ink, pastels and paint. This beginner's course is designed to assist students in developing confidence in expressing imagery through new mediums. Projects will use newly learned skills and an understanding of how certain materials can be used to create different effects. The History of Art and Architecture will be presented through film, library assignments and field trips.

## VISUAL & PERFORMING ARTS (Continued)

**AR****ART FOUNDATIONS 11****MAF--11**

*Prerequisite:* None

*Leads to:* SACS 12, SADP 11, AF 12

*Description:* A basic exploration of a wide variety of art materials. Skill development in: drawing, painting, printmaking, design and sculpture. AF 11 is a general art course for students who have previously taken art as well as for those for whom it is a first experience. The regular use of a sketchbook will be required.

## **ART FOUNDATIONS 12**

**MAF--12**

*Prerequisite:* AF 11, SACS 11, SADP 11

*Leads to:* SACS 12, SADP 12

*Description:* A deeper exploration of art materials. Further skill development in drawing, painting, printmaking and design. The regular use of a sketchbook will be required. Students will receive assistance in compiling a suitable portfolio for post secondary applications.

## **STUDIO ARTS 11 (DRAWING & PAINTING)**

**MSADP11**

*Prerequisite:* None

*Leads to:* SADP 12

*Description:* This is a studio course emphasizing problem solving in drawing and painting and the development of a personal style. Art history will be presented through video and field trips. The regular use of a sketchbook is required. The development of a portfolio for post secondary applications is emphasized and encouraged.

## **STUDIO ARTS 12 (DRAWING & PAINTING)**

**MSADP12**

*Prerequisite:* SADP 11

*Leads to:* Art career, Art school

*Description:* This course is designed for students who plan to develop their skills in drawing, painting and personal imagery. The regular use of a sketchbook is required. The development of a portfolio for post secondary applications is emphasized and encouraged.

## **VISUAL ART 3D 10 (CERAMICS & SCULPTURE)**

**MVAC-10SEM**

*Prerequisite:* None

*Leads to:* AF11, SACS11, SADP11

*Description:* This is a beginner's course in clay work. Basic methods of clay construction and finishing will be used to express ideas of important to each individual student. Drawing will form an important part of this course as students learn to use drawings as a means of developing their own images. The regular use of a sketchbook will be required.

## **STUDIO ARTS 11 (CERAMICS & SCULPTURE)**

**MSACS11**

*Prerequisite:* None

*Leads to:* SACS 12

*Description:* This is a senior level ceramics class. Projects vary from sculptures to functional wheel thrown pieces. The regular use of a sketchbook is required for students to problem solve design and image development. Students will also learn the role of ceramic forms and art in society.

## **STUDIO ARTS 12 (CERAMICS & SCULPTURE)**

**MSACS12**

*Prerequisite:* SACS 11

*Leads to:* Art career, Art school

*Description:* This course is designed as a continuation of SACS 11. There will be greater emphasis on independent work. Students will have the opportunity to develop their own ideas through individually created assignments while continuing to build their skills in ceramics and sculptural forms. The journal/sketchbook is required for students to problem solve design and image development. Assistance will be given in compiling a portfolio for post secondary applications.

# **VISUAL & PERFORMING ARTS (Continued)**

## **PHOTOGRAPHY**

### **PHOTO 11**

**YPHOT11**

*Prerequisite:* None

Leads to: YPHOT 12

Text: Photo One — Basic Photo Text

*Description:* This course is designed for students interested in learning the history and principles of photography along with the art of image-making. The course covers the operation of a 35MM camera, black and white film processing, the darkroom, and the elements and principles of composition. Students will learn processes for refining their perception and creating personal images with visual impact. Projects are designed to challenge the imagination while developing technical skill. Field trips to photography exhibitions are part of the course, along with the regular use of a note book/resource book. Access to a 35MM SLR is suggested as the school has a limited number of cameras for this program. Assistance will be given in compiling a portfolio for post secondary applications.

## **PHOTO 12**

**YPHOT12**

*Prerequisite:* YPHOT 11

*Leads to:* Art school, Photo career

Text: The Step-by-Step Guide to Photography

*Description:* Continued in-depth exploration of the camera and darkroom, creative processes, and the art and science of photography. Projects are flexible, designed to stimulate the imagination, jointly planned by students and teacher. Emphasis will be on developing greater technical skill, personal expression, the ability to see as a photographer sees, and the ability to create images with impact. Own 35MM SLR camera strongly recommended.

## **ADVANCED PLACEMENT STUDIO**

*Description:* Students taking Studio Arts 12 (Drawing and Painting), Photography 12 or Ceramic 12 may choose to enroll in this program through the Visual Arts Department. The AP Studio Arts program makes it possible for highly motivated students to do college level work. Students are asked to submit a portfolio at the end of the school year to the AP College Board. Students prepare for this portfolio submission through a combination of course work, extra AP instruction, and independent work. AP Studio Arts includes advanced curriculum and thus requires commitment, and skill. AP students submit their work in one of three portfolios: 2-D Design, 3-D Design, or Drawing/Painting. There will be a \$100 charge to submit an AP Studio Arts portfolio. Colleges and universities recognize high scores in AP courses and may grant entry to second year courses or grant credit at the first year level.

## **INTEGRATED**

### **ANNUAL PRODUCTION 11**

**YANP-11**

*Prerequisite:* None

*Description:* This course will introduce you to all of the different aspects involved in creating and producing a yearbook. It will provide you with an opportunity to develop skills in design layout, photography, writing, time management, teamwork, and organization. Students must be willing to dedicate many hours outside of the classroom to the project. The ultimate goal of this course is to train you to be an editor on the yearbook team in the following year.

### **ANNUAL PRODUCTION 12**

**YANP-12**

*Prerequisite:* YANP11, graphics, photography, and/or creative writing  
In this course students will oversee all aspects of yearbook production.

### **FILM STUDIES 10**

**YFIS-10**

*Prerequisite:* Students must be enrolled in Flex Humanities program.

*Credits:* 4 credits

*Description:* Film Studies 10 is designed for the Flex Humanities Program. The course will be an introduction to film theory, film criticism, film history, and screenplay writing. Students will be exposed to famous and influential films from many different styles, genres, decades, and countries. Students will learn the basic vocabulary of film and learn to look at film from different theoretical perspectives. Students will then learn the basics of screenwriting and write several scripts both individually and collaboratively.

## **VISUAL & PERFORMING ARTS (Continued)**

### **DRAMA /**

### **FINE ARTS 8 - DRAMA**

**XAT--08FA**

*Leads to:* DR 10

*Description:* This class is an introduction to Drama. We will explore theatre games, mime, short plays and movie reviews.

**DRAMA 9/10****MDRG-10SEM***Prerequisite:* None*Leads to:* TPA 11*Description:* During this ½ year class, students will explore various forms of theatre from improvisation, mime, speech, scene work, playmaking and character development. Play reading, theatre games and analytical film reviews will also be studied.**THEATRE PERFORMANCE 11****MTPA-11***Prerequisite:* None*Leads to:* TPA 12*Description:* This class is designed for students interested in performance. We will explore more in depth character work, audition techniques, scripted monologues, scenes and short one act plays. Acting for the stage and for the camera will be covered.**THEATRE PERFORMANCE 12****MTPA-12***Prerequisite:* TPA 11*Description:* Performance two continues to explore acting skills, refining techniques and challenging the student to perform in front of various audiences. Guidance and preparation will be given for post secondary entrance to acting program.**THEATRE CRITICISM 11/12****YTCR-11***Description:* This class is designed to give students a chance to see live evening theatre performances and films in the Vancouver. Students will be exposed to various kinds of Theatre Performances. Through analysis, discussion and critical thinking, students will develop an in-depth awareness and appreciation of all aspects of production. This class gives the student a study block in the timetable (sometimes used for writing reviews).**THEATRE COMPANY 11/12****YTHC-11***Requirements for entry:* The Theatre Company class is offered to students who want to learn more about Professional acting, play-writing and production. It will operate using the model of a Professional Theatre. Everyone will rotate through the various roles and jobs involved in the process of a play. During the year we will produce one or two studio one-act plays written, acted and produced by students and a main stage production working with guest artists and instructors. Other productions are dependant on the students in the class. This class in for students who normally audition for the school play and for students who are passionately interested in Theatre. Students will get a study block in the day. Priority will be given to first, doing a good audition as well to past senior acting/production or directing/script-writing students. You can be registered in other senior acting/production classes in the same year.**THEATRE PRODUCTION 11****MTPR-11***Description:* Theatre Production 11 is an introductory course in backstage theatre, including learning about theatre terminology, the various roles involved, set, props, costumes, running lights and sound for small productions. Students will assist in helping acting students. Students will have opportunities to help with tech requirements for assemblies and rentals.**THEATRE PRODUCTION 12 (TECHNICAL)****MTPRT12***Description:* This class builds on what has been learned in Theatre Production 11. Students will be encouraged to work on school productions and various independent projects in class.**DIRECTING 12/ THEATRE LEADERSHIP****MTPDS12***Prerequisite:* TPA 11*Description:* This class is for students who want to learn more about working in a leadership role within the Theatre Program. You will be leading warm-ups, assisting in acting classes, helping develop original scripts collectively and have the choice to work on the main stage spring play in the auditorium. Students need to have some understanding of Theatre production and performance. Your enrollment in the class will give you opportunities to work in dance, vocal work/singing, acting, set design and collaboratively working on theme based performances. This will be based on your area of interest. Theatre Company 11/12 and any other senior performance classes are recommended, but not required. A strong desire to work independently with student groups is essential.**VISUAL & PERFORMING ARTS (Continued)****DRAMA /****VIDEO PRODUCTION I****YDGV11***Prerequisite:* None*Description:* This exciting hands-on course offers students a thorough introduction to video production. Students will be involved in scripting, shooting, and editing various video shoots including documentaries, short fiction films, music videos as well as pre-approved personal initiatives. Students will be responsible for producing one production each term. Students will be using digital

cameras, different types of microphone and the Final Cut Pro editing software. This course is for students with a strong sense of responsibility and good social skills. Students will be working in team and must be committed to their film project to the end.

## **VIDEO PRODUCTION II**

**YDGV12**

*Prerequisite:* CPTV 1B

*Description:* This course is intended to introduce students to a higher level of video production. They will be encouraged in a more in-depth exploration of the medium of video including script writing, cinematography, editing and post-production (use of voice-over, sound and music). Students are expected to initiate their own project in addition to teacher-initiated assignments. Students will produce three major projects including a documentary, a short fiction and a more experimental project. This course is for students with a real interest in the art of film.

## **MUSIC**

### **FINE ARTS 8**

**XAT--08FA**

*Prerequisite:* None

*Leads to:* CMCC 11 and Band 9 B

*Description:* During the term in Music, students will explore vocal and instrumental music while developing an appreciation for music. Emphasis will be placed on basic singing technique, guitar technique, developing critical listening skills, and music literacy.

## **BAN**

### **BEGINNER BAND**

**MMU--08BAB / MMU--09BAB**

*Prerequisite:* None

*Description:* This class is the junior-level band at Van Tech. The course includes an introduction to instrumental music with an emphasis on woodwind and brass instruments. Students in this course are invited to participate in the annual Junior Music Tour.

### **BAND 8 / BAND 9 (INTERMEDIATE BAND)**

**MMU--08BAI / MMU--09BAI**

*Prerequisite:* At least 1 year previous band experience in elementary school.

*Leads to:* BA 9

*Description:* This class is the middle-level band at Van Tech. The course places emphasis on developing music literacy, musicianship, and instrumental technique through performance. Students in this course are invited to participate in the annual Junior Music Tour.

### **BAND 10 (SENIOR CONCERT BAND)**

**MMCB-10**

*Prerequisite:* Band 8B or Band 8

*Leads to:* IMCB 11/12

*Description:* This class is the premiere performing ensemble of the Band Program at Van Tech. Class rehearsals focus on advanced musicianship, challenging technique, musical leadership, and application of music literacy skills. Students in grades 11 and 12 who are beginners may take this course with the permission of the instructor. Students in this course are invited to participate in the annual Senior Music Tour.

### **JAZZ BAND 10 - 12**

**MMJB-10 / MIMJB11 / MIMJB12**

*Prerequisite:* Intermediate Band or Director's discretion

*Leads to:* A career as performer, or any number of opportunities in the expanding music industry

*Description:* Development of technique, style, and interpretation of the jazz idiom with a view to performance. Students must also be enrolled in Concert Band.

### **INSTRUMENTAL MUSIC 11/12 (SENIOR CONCERT BAND)**

**MIMCB11 / MIMCB12**

*Prerequisite:* Band 10

*Leads to:* A career as a performer, music educator or to any number of opportunities in the expanding music industry

*Description:* This class is the premiere performing ensemble of the Band Program at Van Tech. Class rehearsals focus on advanced musicianship, challenging technique, musical leadership, and application of music literacy skills. Students in this course are invited to participate in the annual Senior Music Tour.

## **VISUAL & PERFORMING ARTS (Continued)**

## **STRINGS**

### **STRINGS 8 / 9**

**MMU--08STR / MMU--09STR**

*Prerequisite:* At least two years experience in elementary strings or the equivalent with the director's recommendation.

*Leads to:* STR9/MOS10. Students successfully completing STR9 will be promoted to the Senior Orchestra.

*Description:* This is a performing group called Junior Orchestra. Students work to develop their instrumental technique on the violin, viola, cello or double bass and musical knowledge in theory and music reading with the goal to enter the Senior Orchestra by grade 10. Older, less experienced students may enroll in this group at the discretion of the director. Classes are held off-timetable.

### **STRINGS 10-12**

**MMOS-10 / MIMOS11 / MIMOS12**

*Prerequisite:* At least one year in the Junior Orchestra (STR8 and/or STR9) or equivalent experience with the director's recommendation.

*Leads to:* IMOS11/IMOS12 – Students completing IMOS12 will be prepared to further their studies at the post-secondary level and/or to participate in community orchestras.

*Description:* This is a performing group called Senior Orchestra. Students work on intermediate and advanced technique on the violin, viola, cello, and double bass and further their musical knowledge in theory and music reading in order to perform increasingly advanced works for string orchestra. Younger, experienced students may enroll in the Senior Orchestra at the discretion of the director. Classes are held off-timetable.

### **BEGINNING STRINGS 8-12**

**MMU--08STB / MMU--09STB / MMOS-10BEG / MIMOS11BEG / MIMOS12BEG**

*Prerequisite:* A sincere desire to learn to play an orchestral string instrument and the ability to work independently in home practice.

*Leads to:* STR9/MOS10/IMOS11/IMOS12

*Description:* This is an introductory course to instrumental technique on the violin, viola, cello, or double bass for students with no previous experience with an orchestral string instrument. Students will also be introduced to music theory, music reading, and ear training. Previous musical experience on another instrument is helpful but not necessary. Beginning Strings is a sub-section of the Junior Orchestra. Students are admitted at the discretion of the director and are mentored with more experienced members of the orchestra.

## **CHOIR**

### **CHOIR 9 / 10**

**MMU—08CHO / MMCC-10**

*Prerequisite:* none

*Lead to:* Choir 11 /12

*Description:* An introduction to singing in a multi-voice choir. Learn about proper vocal technique, all while learning to read music. Our music will span more than 500 years of rich vocal history including Canadian folk, pop, jazz, sacred and secular genres. Opportunities for group public performances will be available.

### **CHOIR 11 / 12**

**MCMCC11 / MCMCC12**

*Description:* A continuation of Choir 9 / 10, this course will further explore the rich history of vocal music in 3 and 4 part harmony. Students will have the opportunity to sing in languages such as Italian, French, Latin and Africa dialects. There will be opportunities for group performances and festivals.

### **VOCAL JAZZ 10 / 11 / 12**

**MMVJ-10 / MCMJV11 / MCMJV12**

*Prerequisite:* Permission of the instructor; audition required.

*Description:* This ensemble will study a variety of swing, vocal jazz, and other combo / ensemble literature. Vocalists will learn basic improvisation skills, extended part singing and use of the sound system. Instrumentalists may also audition as members of the rhythm section.

## **SPECIAL PROGRAMS**

### **SUCCESS 8**

*Prerequisite:* Students with a "Q" designation are referred by the elementary school teachers in consultation with the Vancouver Technical staff and parent/guardian.

*Leads to:* Grade 9 regular or adapted mainstream courses or programs in an alternate setting.

*Description:* The Success Program provides a supportive, caring, and flexible learning environment for students who have the potential to be successful in the regular mainstream or alternate placement. It allows smoother transition from elementary to

secondary school. This program offers a combination of self-contained classes in the core subject areas – English 8, Social Studies 8, Math 8, Science 8 and Skills support. Students are integrated in Physical Education 8, Fine Arts 8 and/or Applied Skills 8 in the regular mainstream program.

**Before placement, a meeting with parent/guardian, student and counselor must take place in order to ensure the Success 8 Program is appropriate for the student.**

## **BRIDGE 8**

*Prerequisite:* Referral is made by the elementary school teacher in consultation with the Vancouver Technical staff and parent/guardian.

*Leads to:* Grade 9 regular or adapted mainstream courses or programs in an alternate setting.

*Description:* The Bridge 8 Program provides a supportive, small classroom environment for students who have the potential to be successful in the regular mainstream classes but who may have difficulties learning in a large classroom setting. It allows smoother transition from elementary to secondary school. This program offers a combination of self-contained classes in the core subject areas – English 8, Social Studies 8, Math 8, Science 8 and English 8 Literacy (additional support to English 8). Students are integrated in Physical Education 8, Fine Arts 8 and/or Applied Skills 8 in the regular mainstream program.

**Before placement, a meeting with parent/guardian, student and counselor must take place in order to ensure the Success 8 Program is appropriate for the student.**

## **TUMANOS**

*Prerequisite:* Grade 9 and 10 or permission of the staff.

*Leads to:* Integration into regular academic courses and First Nations cultural awareness.

*Description:* Tumanos is an alternate program for First Nation students in Grades 9 and 10. The Tumanos Program offers a positive, supportive learning environment where students work on English, Social Studies, Math, and Science. In addition, students are required to participate in Physical Education, cultural activities and elective classes. There are two program teachers and one school and student support worker who provides academic support to students. Courses are adapted to meet the students learning needs and to provide a curriculum enriched by First Nation's history and culture. Students are also supported by the school's First Nations Support Worker.

## **SKILLS CENTRE**

*Prerequisite:* A need for support to succeed in regular course work

*Referral:* Through the articulation process or grade counsellor

*Leads to:* Increased academic success and development of study, memory, note-taking and test-taking strategies in small groups or individual tutoring situations.

## **LEARNING SUPPORT PROGRAM**

*Prerequisite:* Grade 8 or 9 age and referral from Area Case Manager.

*Leads to:* regular or modified 10 or pre-employment programs.

*Description:* Learning Support Program classes at the secondary level provide support in core subject area and provide service for "Q" designated students with severe language learning difficulties. The maximum enrollment is 15 students. The program goals are to help students develop skills in the following areas: listening, writing, speaking, social interaction, self-confidence, following directions, using library materials, participating in group problem solving, decision making and awareness of appropriate behaviour in given situations.

## **LINKS**

*Prerequisite:* Referral from Area Case Manager and have recent psycho-educational assessment.

*Leads to:* School Leaving Certificate

*Description:* Core subjects are taught in two LAC classes with a maximum of 15 students. Students are integrated in elective classes. There is a work experience component for students over the age of 15. The program is designed to LINK special needs students who have Ministry of Education special needs designations with the school and the community, in order to improve students' self-esteem, social awareness, and basic academic skills.

## **DSP (DEVELOPMENTAL SKILLS PROGRAM)**

*Prerequisite:* Referral from Area Case Manager.

*Leads to:* School Leaving Certificate

*Description:* Small supportive classes for students with moderate to severe intellectual disabilities and/or autism. The program goals are to improve communication skills, functional academic skills, teach appropriate behavior and social skills and to develop life skills through interaction via community involvement.

# **WORK EXPERIENCE**

## **WORK EXPERIENCE PROGRAMS**

Work Experience is a program which integrates classroom theory with practical experience in the workplace. It provides an opportunity for Grade 11 and 12 students to explore a career choice and to gain valuable work experience before proceeding to post secondary education or starting work on a full time basis. As a result, students will be better able to make sound and realistic decisions about their future. The goals of the work experience program are to:

- improve the transition between school and workplace for students who enroll in post secondary coop programs at university and technical institutions.
- complement the theory our students learn in school by providing the opportunity to gain practical experience in realistic learning environments.
- provide access to equipment and expertise not available in Vancouver school buildings.
- enhance our school-community relationships through the excellence of our programs.
- provide our students with access to more part-time job opportunities through work experience sponsors.




With careful and early planning of course programs, students have the opportunity to complete requirements for both university entrance and Career Preparation. This opens doors to both the world of work and to advanced academic education.

Work Experience opportunities are available in the following areas: Art, Accounting, Science, Drafting, Culinary Arts, Electronics, Fashion Design, General Mechanics, Graphics, Hairdressing, Human Services, Metal Technology, Marketing, Music, Tourism, Wood Products, and Writing Careers.

## **WORK EXPERIENCE STUDENTS ARE EXPECTED TO COMPLETE**

- ✓ secondary school graduation requirements
- ✓ an approved course package in a work experience specialty area
- ✓ a minimum of 100 hours of work experience for full credit as one of the program courses WEX12.

## **STUDENTS IN WORK EXPERIENCE PROGRAMS**

-  explore their potential with on-the-job experience
-  acquire the knowledge, skills, and attitudes required for employment in a number of related fields
-  meet entrance requirements for similar programs offered at post secondary institutions.

Our school programs prepare and provide opportunities for students to develop skills essential to the workplace. Work experience sponsors have indicated that the most highly valued character traits are communication skills and interpersonal skills. Besides promoting these two prominent skills, Work Experience students are also guided towards the development of coping and decision-making skills, ethical and behavioural standards, and accountability. Students are evaluated on a large number of characteristics, many of which are not appraised in the regular classroom; appropriate grooming, attitude, organization, competency, confidence, conscientiousness, cooperation, dependability, friendliness, quality of work, reliability, and responsibility.

## **CERTIFICATION**

Upon completion of the Work Experience Program the student receives the Work Experience Program Specialty Certificate, 4 course credits and a final course mark. Students wishing to proceed to trades programs at BCIT will be able to submit a special work experience application form and be considered for early registration. See your counsellor for details.

# **TECHNICAL PROGRAMS**

## **HIGH SCHOOL MACHINIST CORE**

The High School Machinists program is one of the Vancouver School Board's Dual Credit Programs through ACE IT (Accelerated Credit Enrolment in Industry Training). This partnership between BCIT and the Vancouver School District provides a unique opportunity for secondary students to earn post secondary credits towards Trades Certification. It enables students to acquire job ready skills to enter the industry and continue as an apprentice, or pursue post secondary advanced specializations at BCIT. Students should enroll in the program in grade 11 with a commitment to complete the course work in their Grade 12 year.

Students take two courses each year for a total of 16 credits.

- Candidates should be dedicated students with good math skills, an aptitude for applied learning and a course average of 70%.
- Work experience in a machine shop is a requirement of the program.
- Students will gain valuable on the job training skills during their work experience placements.
- Students may be required to spend several weeks at the BCIT machinist training facility covering additional course related material.

Additional information on this program is available from Mr. Basso, the Career Preparation Coordinator, or your counsellor.

## SECONDARY SCHOOL APPRENTICESHIP

Secondary School Apprenticeship (SSA) is a career program available to students in Vancouver secondary schools.

The SSA program provides students with the opportunity to begin apprenticeship training while completing secondary school graduation requirements. Students will be registered as apprentices and will be paid for their work by an employer who agrees to provide provincially approved apprenticeship training.

To qualify, students must be enrolled in school courses related to their chosen trade and demonstrate a sincere commitment to completing the apprenticeship. It is generally expected that by graduation, SSA students will have completed their graduation requirements plus the first year of their apprenticeship, including 480 hours of on-the-job training for which 16 graduation credits are awarded.

Upon graduation, students will continue apprenticeship training with an employer and the required technical training at a post secondary institution.

This is a unique opportunity for students to begin post secondary education while completing secondary school graduation requirements.

This program is available to students who are 15 years of age or older and who will complete all graduation requirements before leaving secondary school.

The Secondary School Apprenticeship Program is available for students in Culinary Arts, Hairdressing, General Mechanics, Machinist/Metal Technology and Electronics. See your counsellor for more information.

The Vancouver School Board offers several district programs designed for our students interested in pursuing a career in a trade. These programs provide a huge jump start for students.

The benefits include:

- dual credit with a post secondary institution (most programs)
- head start with pre-apprentice/ELTT/Foundation program training
- registration with the Industry Training Authority (ITA)
- may lead directly into an apprenticeship
- work experience in the trade

For more information and an application form, please visit the VSB Career Programs website: [www.vsb.bc.ca](http://www.vsb.bc.ca) → students → K to 12 students → Career Programs and the Industry Training Authority website: [www.itabc.ca](http://www.itabc.ca)

All students applying for ACE-IT programs should register at their home school with a full course load. Schools will be asked to modify students' timetable when the student is accepted into an ACE-IT program. ACE-IT application forms for the February intake are due October 31, 2008. Secondary School apprentice applications are considered on an on-going basis.

## SECONDARY SCHOOL APPRENTICESHIP (Continued)

### ACE-IT; Current Programs:

Program	Where the program is taught	Credits towards the graduation program?	Certification	Next start date

<b>Auto Refinishing Preparation</b>	VCC	24 credits	Level 1 technical training	February, 2008
<b>Auto Collision Repair Technician</b>	VCC	32 credits	Level 1 technical training	September, 2008
<b>Hairdressing</b>	Vancouver Technical Secondary	28 credits	Hairdressing license	September, 2008
<b>Carpentry</b>	John Oliver Secondary	20 credits	Level 1 technical training	September, 2008
<b>Auto Service Technician</b>	Britannia Secondary	20 credits	Level 1 technical training	September, 2008

### ACE-IT; Pending Programs:

These programs are currently under development. Students who are interested in should complete the ACE-IT application form. ACE-IT applications are due by March 30, 2007.

Program	Where it is taught	How many courses towards grad?	Certification	Next start date
<b>Auto Service Technician</b>	TBA	5 courses or 20 credits	Level 1 technical training	September, 2007
<b>Electrician</b>	TBA	5 courses or 20 credits	Level 1 technical training	September, 2007
<b>Sheet Metal</b>	Vancouver Technical Secondary	5 courses or 20 credits	Level 1 technical training	September, 2007

### Secondary School Apprenticeship

Some students have the skills to begin an apprenticeship while they are in high school. Many are already working in a trade and need only to formalize their relationship with their employer. Other students want to begin a trade while in high school. There are 4 courses (16 credits) available to these students when they have a formal ITA agreement signed by an employer. Students should call Wendy Gilmour, Apprenticeship Facilitator at 604-713-4470 for more information on this program. Information is also available on the VSB website: [www.vsb.bc.ca](http://www.vsb.bc.ca) → students → K to 12 students → Career Programs → Career Education programs → Secondary School Apprenticeship.

### Trades Discovery

This program is intended to provide a grade 10 graduate with a “taste” of the trades (for a full list of the trades visit [www.itabc.ca](http://www.itabc.ca) ). The district will provide a one week work experience placement during the summer between Grade 10 and 11. Students will apply for the program and will be given some pre-work experience training. The program will have a follow-up component with students and parents. Students will receive a 2 credit Independent Directed Studies course upon successful completion of the Grade 10 program and a 3 credit Independent Directed Studies course upon successful completion of the Grade 11 program. Applications for these programs are on the VSB website: [www.vsb.bc.ca](http://www.vsb.bc.ca) → students → K to 12 students → Career Programs → Career Education programs → Trades Discovery. For more information please contact Ms. Sandra Wrigley at (604) 713-5064.

### Skills, Careers and Trades Program at Tupper Secondary

This program is intended to assist those students who wish to enter a trade when they leave high school. Successful applicants will acquire a specific and documented set of work place skills and attend class from 8:30 a.m. until 3:00 p.m. on alternate days. Upon program completion, students will receive 16 credits (Applications of Math 11, Senior Technology 12A and 12B, and Work Experience 12A). Any student entering grade 12 is eligible to apply for one of 24 seats in the program (Students entering grade 11 and who are intending to enter an apprenticeship or ACE IT program during their grade 12 year may be consider). For more information on Tupper’s SCT program contact Ms. Mavety ([dmavety@vsb.bc.ca](mailto:dmavety@vsb.bc.ca)) or a 604-713-8233.

## SECONDARY SCHOOL APPRENTICESHIP (Continued)

### Sheet Metal Working

*Certificate of Trades Training Full-Time:* Sheet metal workers fabricate, assemble, alter and install a variety of sheet metal products. Typical jobs performed by a sheet metal worker include HVAC (heating, ventilating and air condition) ductwork, industrial sheet metal work, and residential sheet metal work. They also work on hospital and kitchen equipment (stainless steel), industrial exhaust systems, industrial sheet metal work, and roofing and flashing (copper, aluminum, stainless steel and galvanized iron).

*The Program:* Basic theory and related information, along with hands-on shop practice, enable students to become competent in fabricating basic sheet metal products. Sheet metal workers must be able to work at heights, Good physical condition is necessary.

*Job Opportunities:* Students are prepared for entry-level employment in the sheet metal and precision metal-forming industries. Upon successful completion of the program, students may seek employment as apprentices. With the improvement in the construction industry in BC, employment opportunities for sheet metal workers have also improved. New opportunities are opening up in the precision metal forming industry. Graduates are finding employment with both union and non-union employers. Apprenticeships are available. All indicators show that employment in the sheet metal trade will continue to be positive in the future.

*Salary:* Sheet metal workers can earn a gross living close to \$30 an hour – maybe more.

*Course Work:* Students would require 4 courses in Sheet metal and a work experience course to test for a Level 1 certification.

## **POST SECONDARY ADMISSION REQUIREMENTS**

Students, with parental guidance and counsellor assistance, are responsible for checking current calendars, websites and other publications with regard to any changes that may affect their plans for further education. Students are responsible for obtaining and carefully completing appropriate application forms, meeting the stated deadlines, and other admission requirements and criteria.

Some local post secondary application forms are available in the school, although on-line application is strongly recommended. Website addresses are listed below.

If your first language is not English, post secondary institutions may require that you provide evidence of English language proficiency by writing the "Test of English As a Foreign Language" (TOEFL). See the individual post secondary institution calendars for details. Information on TOEFL is available in the Career Centre or on the website below.

## POST SECONDARY

- Apply to several BC post secondary schools on-line: <http://www.pas.bc.ca>
- For a list of schools in Ontario, and to apply to most Ontario post secondary institutes visit [www.compass.ouac.on.ca](http://www.compass.ouac.on.ca) (Ontario Post Secondary Application Service)
- SAT and US Post Secondary Information: [www.collegeboard.com](http://www.collegeboard.com)
- Test of English as a Foreign Language: [www.toefl.org](http://www.toefl.org)
- Grad Planner 2004, provincial examinations, transcripts and scholarship: [www.bced.gov.bc.ca/graduation](http://www.bced.gov.bc.ca/graduation)
- BC's education planning website: [www.educationplanner.bc.ca](http://www.educationplanner.bc.ca)
- The purpose of the Language Proficiency Index (LPI) is to provide information about an individual's competency in English. This information is used primarily by post-secondary institutions and professional organizations within British Columbia: [www.ares.ubc.ca/LPI/index.html](http://www.ares.ubc.ca/LPI/index.html)
- Information on the different programs offered at Canadian, American and International schools: [www.schoolfinder.com](http://www.schoolfinder.com)
- BC Council on Admissions & Transfer (this is a must if you are planning on transferring from college to university): [www.bccat.bc.ca](http://www.bccat.bc.ca)
- This site provides Canada's largest course-to-course transfer database, with information on thousands of courses and their transfer potential: [www.bctransferguide.ca](http://www.bctransferguide.ca)

## CAREER PLANNING AND LABOUR MARKET

- This website and the information resource guide were designed to steer users toward an array of selected career learning and labour market information (LMI) sources and tools, handpicked by knowledgeable practitioners: [www.whatskey.org](http://www.whatskey.org)
- *Guide to the BC Economy and Labour Market* is an excellent source of information about historical and current trends, as well as the long-term outlook for the provincial economy and the labour: [www.guidetobceconomy.org](http://www.guidetobceconomy.org)
- BC Occupational Outlooks: [www.workfutures.bc.ca](http://www.workfutures.bc.ca)
- Ministry of Education career planning section website: [www.bced.gov.bc.ca/careers/planning](http://www.bced.gov.bc.ca/careers/planning)
- Ministry of Advanced Education: [www.aved.gov.bc.ca](http://www.aved.gov.bc.ca)
- The site features information on: job descriptions, skill requirements, employment prospects, wages and salaries, lists of potential employers and where to get training: [www.labourmarketinformation.ca](http://www.labourmarketinformation.ca)
- BC Stats site features information on BC population, the economy, labour force, employment and earnings: [www.bcstats.gov.bc.ca/index.htm](http://www.bcstats.gov.bc.ca/index.htm)
- BC Work Info Net: [www.workinfont.net.bc.ca/youth](http://www.workinfont.net.bc.ca/youth)
- This site provides the latest information on the Canadian labour market, including current labour market conditions and economic forecasts for 226 occupational groups: [www.jobfutures.ca](http://www.jobfutures.ca)
- How about this comprehensive, fun and informative site including labour market, assessment and career information, with a home page which profiles new occupations on a daily basis (to access the information, click on **British Columbia, then choose** 'Student' or 'Professional': [www.careerexplorer.net](http://www.careerexplorer.net)
- Career Cruising (Username: Vancouver / Password: technical): [www.careercruising.com](http://www.careercruising.com)
- Bridges web free service provides access to updated career-related news, conferences, online resources and organizations. It contains free online subscription to the latest career development information and timely labour market articles: [www.bridges.com](http://www.bridges.com)

## POST SECONDARY ADMISSION REQUIREMENTS (CONT.)

### SCHOLARSHIPS, LOANS AND BURSARIES

- National Student Loan Website, sponsored by the Federal Government of Canada: [www.canlearn.ca](http://www.canlearn.ca)

- Information about awards throughout Canada: [www.studentawards.com](http://www.studentawards.com)
- Entrance Scholarship Directory, up to 60,000 scholarships listed: [www.scholarshipscanada.com](http://www.scholarshipscanada.com)
- Guide to financial aid, primarily US links: [www.finaid.org](http://www.finaid.org)
- Ministry of Education sites and links: [www.bced.gov.bc.ca/awards](http://www.bced.gov.bc.ca/awards)
- Scholarship search based on deadlines and school districts: [www.bcawardsonline.sd61.bc.ca](http://www.bcawardsonline.sd61.bc.ca)
- Scholarship search sponsored by Monster: [www.fastweb.monster.com](http://www.fastweb.monster.com)
- BC awards for athletics and sports: [www.bcschoolsports.ca/pages/links.php](http://www.bcschoolsports.ca/pages/links.php)
- Listings of scholarships and exchange programs in Canada: [www.aucc.ca](http://www.aucc.ca)
- Canadian Merit Scholarship Foundation: [www.cmsf.ca](http://www.cmsf.ca)
- National Adult Literacy Database: [www.nald.ca](http://www.nald.ca)
- Sponsored by Human Resources Development Canada, information on Student Loans: [www.hrsdc.gc.ca/en/home/shtml](http://www.hrsdc.gc.ca/en/home/shtml)
- US Scholarship site: [www.apps.absolutelyscholarships.com](http://www.apps.absolutelyscholarships.com)
- College Board Scholarship Search (primarily US information): [www.collegeboard.com/?student](http://www.collegeboard.com/?student)
- US Scholarship site: [www.collegeboard.com](http://www.collegeboard.com)

The 2007 - 2008 school year, passport to education stamp values are:

Grade 10 = \$250      Grade 11 = \$250      Grade 12 = \$275

## PUBLIC COLLEGES & UNIVERSITIES IN B.C.

- British Columbia Institute of Technology (BCIT): [www.bcit.ca](http://www.bcit.ca)
- Camosun College (Victoria): [www.camosun.bc.ca](http://www.camosun.bc.ca)
- Capilano College: [www.capcollege.bc.ca](http://www.capcollege.bc.ca)
- College of the Rockies (Cranbrook): [www.cotr.bc.ca](http://www.cotr.bc.ca)
- College of New Caledonia (Prince George): [www.cnc.ba.ca](http://www.cnc.ba.ca)
- Douglas College: [www.douglas.bc.ca](http://www.douglas.bc.ca)
- Emily Carr Institute of Art + Design: [www.eciad.bc.ca](http://www.eciad.bc.ca)
- All Nations Institute: (First Nations College) [www.all-nations.ca](http://www.all-nations.ca)
- Kwantlen University College: [www.kwantlen.bc.ca](http://www.kwantlen.bc.ca)
- Langara College: [www.langara.bc.ca](http://www.langara.bc.ca)
- Malaspina University College (Nanaimo): [www.mala.bc.ca](http://www.mala.bc.ca)
- Nicola Valley Institute of Technology (Merritt): [www.nvit.bc.ca](http://www.nvit.bc.ca)
- North Island College (Courtney): [www.nic.bc.ca](http://www.nic.bc.ca)
- Northern Lights College (Dawson Creek): [www.nlc.bc.ca](http://www.nlc.bc.ca)
- Northwest Community College (Terrace): [www.nwcc.bc.ca](http://www.nwcc.bc.ca)
- Okanagan College (Kelowna): [www.okanagan.bc.ca](http://www.okanagan.bc.ca)
- Royal Roads University (Victoria): [www.royalroads.ca](http://www.royalroads.ca)
- Selkirk College (Castlegar): [www.selkirk.bc.ca](http://www.selkirk.bc.ca)
- Simon Fraser University: [www.sfu.ca](http://www.sfu.ca)
- Thompson Rivers University: [www.tru.ca](http://www.tru.ca)
- Trinity Western University: [www.twu.ca](http://www.twu.ca)
- University of BC: [www.ubc.ca](http://www.ubc.ca)
- University of BC Okanagan Campus: [www.okanagan.ubc.ca](http://www.okanagan.ubc.ca)
- University Canada West: [www.universitycanadawest.ca](http://www.universitycanadawest.ca)
- University College of the Fraser Valley (Abbotsford): [www.ucfv.bc.ca](http://www.ucfv.bc.ca)
- University of Northern BC (Prince George): [www.unbc.ca](http://www.unbc.ca)
- University of Victoria: [www.uvic.ca](http://www.uvic.ca)
- Vancouver Community College: [www.vcc.bc.ca](http://www.vcc.bc.ca)
- Listing of schools in the US visit: [www.collegenet.com](http://www.collegenet.com)
- SAT I and SAT II visit: [www.collegeboard.com](http://www.collegeboard.com)

For a list of schools in Ontario, and to apply to most Ontario post secondary institutes visit [www.compass.ouac.on.ca](http://www.compass.ouac.on.ca) (Ontario Post Secondary Application Service)

For information and listing of schools in the US visit [www.collegenet.com](http://www.collegenet.com) and [www.collegeboard.com](http://www.collegeboard.com) for information on SAT I and SAT II testing etc.

VANCOUVER TECHNICAL COURSE CODES 2009-2010		
NEW COURSE CODE	OLD COURSE CODE	NAME OF COURSE
<b>ENGLISH</b>		
MEN--08	EN8	ENGLISH 8

MEN--08LIT	EN8B	ENGLISH 8 LITERACY BASICS
MEN--09	EN9	ENGLISH 9
MEN--09E	EN9E	ENGLISH 9 ENRICHED
MEN--10	EN10	ENGLISH 10
MEN--10A	EN10A	ENGLISH 10 ADAPTED
MEN--10E	EN10E	ENGLISH 10 WRITING
MEN--11	EN11	ENGLISH 11
MEN--11E	EN11E	ENGLISH 11 ENRICHED
MCOM-11	COM11	COMMUNICATIONS 11
MEN--12	EN12	ENGLISH 12
MCOM-12	COM12	COMMUNICATIONS 12
MLIT-12	LIT12	LITERATURE 12
MWR--12	WR12	WRITING 12
AELC-12	APELC2	ADVANCED PLACEMENT LANG. & COMP.
YPSY-11	YPSY11	PSYCHOLOGY 11
<b>SOCIAL STUDIES</b>		
MSS--08	SS8	SOCIAL STUDIES 8
MSS--09	SS9	SOCIAL STUDIES 9
MSS--10	SS10	SOCIAL STUDIES 10
MSS-10A	SS10A	SOCIALS STUDIES 10 ADAPTED
MSS--11	SS11	SOCIAL STUDIES 11
MCCN--12	CCN12	COMPARATIVE CIVILIZATION 12
MGEO-12	GEO12	GEOGRAPHY 12
MLAW-12	LAW12	LAW 12
MEC--12	EC12	ECONOMICS 12
MHI--12	HI12	HISTORY 12
YPHIL12	YPHIL2	PHILOSOPHY 12
MFNS-12	FNS12	FIRST NATIONS STUDIES 12
MIDS-2A	IDS12A	LIBERAL ARTS (INDEPENDENT STUDY)
MIDS-2B	IDS12B	LIBERAL ARTS (INDEPENDENT STUDY)
<b>MATHEMATICS</b>		
MMA--08	MA8	MATH 8
MMA--08CH	CHMA8	CHALLENGE MATH 8
MMA--09	MA9	MATH 9
MMA--10CH	CHMA9	CHALLENGE MATH 9
MMA--10	MA10	MATH 10
MAMA-10	AMA10	APPLICATIONS OF MATH 10
MEMA-10	EMA10	ESSENTIALS OF MATH 10
MMA--11	MA11	MATH 11
MEMA-11	EMA11	ESSENTIALS OF MATH 11
MAMA-11	AMA11	APPLICATIONS OF MATH 11
MMA--12	MA12	MATH 12
ACAL-12	APCAL2	ADVANCED PLACEMENT CALCULUS
<b>SCIENCE</b>		
MSC--08	SC8	SCIENCE 8
MSC--09	SC9	SCIENCE 9
MSC--10	SC10	SCIENCE 10
MSC--10A	SC10A	SCIENCE 10 ADAPTED
MSCT-11	SCT11	SCIENCE AND TECHNOLOGY 11
MBI--11	BI11	BIOLOGY 11

MBI--12	BI12	BIOLOGY 12
MCH--11	CH11	CHEMISTRY 11
MCH--12	CH12	CHEMISTRY 12
MPH--11	PH11	PHYSICS 11
MPH--12	PH12	PHYSICS 12
APHC-12	APPH2Z	ADVANCED PLACEMENT PHYSICS 12
ABIO-12	APB12Z	ADVANCED PLACEMENT BIOLOGY12
ACHE-12	APCH2Z	ADVANCED PLACEMENT CHEMISTRY 12
MGEOL12	GEOL12	GEOLOGY12
??		ASTRONOMY 11
<b>LANGUAGES</b>		
MFR--08	FR8	FRENCH 8
MFR--09	FR9	FRENCH 9
MFR--10	FR10	FRENCH 10
MFR--11	FR11	FRENCH 11
MFR--12	FR12	FRENCH 12
MMAN-09	MAN9	MANDARIN 9
MMAN-10	MAN10	MANDARIN 10
MBMAN11	BMAN11	BEGINNER'S MANDARIN 11
MMAN-11	MAN11	MANDARIN 11
MMAN-12	MAN12	MANDARIN 12
MSP--09	SP9	SPANISH 9
MSP--10	SP10	SPANISH 10
MSP--11	SP11	SPANISH 11
MBSP-11	BSP11	BEGINNER'S SPANISH 11
MSP--12	SP12	SPANISH 12
<b>BUSINESS EDUCATION</b>		
MBEC-10SEM	BEC10Z	KEYBOARDING 10
MBEG-10SEM	BEG10Z	BUSINESS EDUCATION 10
YCPKC11	YCPKC1	KEYBOARDING 11
MAC--11	AC11	ACCOUNTING 11
MACC-12	ACC12	ACCOUNTING 12
MFA--12	FAC12	FINANCIAL ACCOUNTING 12
MMK--11	MK11	MARKETING 11
MMK--12	MK12	MARKETING 12
MBCA-11	BCA11	BUSINESS COMPUTER APPLICATION 11
MMI--12	MI12	MANAGEMENT INNOVATION 12
MBIM-12	BIM12	BUSINESS INFORMATION MANAGEMENT 12
<b>GRADE 8 ROTATIONS</b>		
XAT--08AS	AS8	APPLIED SKILLS 8 ROTATION (note: students register in this code)
		<i>BUSINESS EDUCATION (students DO NOT register in these codes)</i>
<i>MBE--08AS</i>		
<i>MHE--08AS</i>		<i>HOME ECONOMICS</i>
<i>MTE--08AS</i>		<i>TECHNOLOGY EDUCATION</i>

XAT--08FA	FA8	FINE ARTS 8 ROTATION
<i>MMU--08FA</i>		<i>MUSIC 8</i>
<i>MDR--08FA</i>		<i>DRAMA 8</i>
<i>MVA--08FA</i>		<i>VISUAL ARTS 8</i>
<b>FINE ARTS</b>		
<b>ART</b>		
MVAG-10SEM	VAG10Z	ART 9/10
MVAD-10SEM	VAD10Z	VISUAL ART 2D 10
MVAC-10SEM	VAC10Z	VISUAL ART 3D 10
MAF--11	AF11	ART FOUNDATIONS 11
MSACS11	SACS11	STUDIO ARTS 11: CERAMICS AND SCULPTURE
MSACS12	SACS12	STUDIO ARTS 12: CERAMICS AND SCULPTURE
MSADP11	SADP11	STUDIO ARTS 11: DRAWING AND PAINTING
MSADP12	SADP12	STUDIO ARTS 12: DRAWING AND PAINTING
YPHOT11	YPHOT1	PHOTOGRAPHY 11
MAF--12	AF12	ART FOUNDATIONS 12
YPHOT12	YPHOT2	PHOTOGRAPHY 12
<b>DRAMA</b>		
MDRG-10SEM	DRG10Z	DRAMA 9/10
YTCR-11	YTCR11	THEATRE CRITICISM 11
YTCR-12	YTCR12	THEATRE CRITICISM 12
YDGV11	YDGV11	FILM/VIDEO PRODUCTION 11
YDGV12	YDGV12	FILM/VIDEO PRODUCTION 12
MTPA-11	TPA11	THEATRE PERFORMANCE 11
MTPDS11	TPDS11	THEATRE PERFORMANCE 11: DIRECTING
MTPA-12	TPA12	THEATRE PERFORMANCE 12
MTPDS12	TPDS12	THEATRE PERFORMANCE 12: DIRECTING
MTPR-11	TPR11	THEATRE PRODUCTION 11
MTPRT12	TPRT12	THEATRE PRODUCTION 12: TECHNICAL THEATRE
YTHC-11	YTHC11	THEATRE COMPANY 11
<b>MUSIC</b>		
MMU--08BAB	BA8B	BEGINNERS BAND 8
MMU--08BA	BA8	BAND 8
MMU--09BAB	BA9B	BEGINNER'S BAND 9
MMU--09BA	BA9	BAND 9
MMCB-10	BA10	BAND 10
<b>MUSIC</b>		
MIMCB11	IMCB11	INSTRUMENTAL MUSIC 11: CONCERT BAND
MIMCB12	IMCB12	INSTRUMENTAL MUSIC 12: CONCERT BAND
MMJB-10	IMJB10	JAZZ BAND 10
MIMJB11	IMJB11	JAZZ BAND 11

MIMJB12	IMJB12	JAZZ BAND 12
MMU--08ST	STR8	STRINGS 8
MMU--09ST	STR9	STRINGS 9
MMOS-10	MOS10	STRINGS 10
MIMOS11	IMOS11	INSTRUMENTAL MUSIC 11: ORCHESTRA STRINGS
MIMOS12	IMOS12	INSTRUMENTAL MUSIC 12: ORCHESTRA STRINGS
MMU--08STB	STR8B	BEGINNER'S STRINGS 8
MMU--09STB	STR9B	BEGINNER'S STRINGS 9
MMOS-10BEG	MOS10B	BEGINNER'S STRINGS 10
MIMOS11BEG	IMOS11B	BEGINNER'S STRINGS 11
MIMOS12BEG	IMOS12B	BEGINNER'S STRINGS 12
<b>CHOIR</b>		
MMU--09CHO	CMCC9	CHOIR 9
MMCC-10	MCC10	CHOIR 10
MCMCC11	CMCC11	CHOIR 11
MCMCC12	CMCC12	CHOIR 12
MMVJ-10	MVJ10	VOCAL JAZZ 10
MCMJV11	CMJV11	VOCAL JAZZ 11
MCMJV12	CMJV12	VOCAL JAZZ 12
<b>INTEGRATED ARTS</b>		
YANP-11	YANP11	ANNUAL PRODUCTION 11
YANP-12	YANP12	ANNUAL PRODUCTION 12
YFIS-10	FILM10	FILM STUDIES 10
<b>HOME ECONOMICS</b>		
MHET-10SEM	HET10Z	CLOTHING AND TEXTILES 10
YFASD11	YFASD1	FASHION DESIGN 11
MTEX-11	TEX11	TEXTILES 11
MTEX-12	TEX12	TEXTILES 12
YFASD2A	YFSD2A	FASHION DESIGN 12A
YFASD2B	YFSD2B	FASHION DESIGN 12B
MHEF-10SEM	HEF10Z	FOODS 10
MFDS-11	FDS11	FOODS 11
MFDS-12	FDS12	FOODS 12
MTRM-11	TRM11	TOURISM 11
MTRM-12	TRM12	TOURISM 12
MHS--1A	HS11A	HUMAN SERVICES 11A
MHS--2A	HS12A	HUMAN SERVICES 12A
MCAFT11	CFT11	CAFETERIA TRAINING 11
MCAFT12	CFT12	CAFETERIA TRAINING 12
YHA--1A	YHA11A	HAIRDRESSING 11A
<b>HOME ECONOMICS</b>		
YHA--1B	YHA11B	HAIRDRESSING 11B
YHA--1C	YHA11C	HAIRDRESSING 11C
YHA--2A	YHA12A	HAIRDRESSING 12A
YHA--2B	YHA12B	HAIRDRESSING 12B
YHA--2C	YHA12C	HAIRDRESSING 12C
YHA--2D	YHA12D	HAIRDRESSING 12D

<b>TECHNICAL STUDIES</b>		
MAT--11	AT11	AUTOMOTIVE TECHNOLOGY 11
MAT--12	AT12	AUTOMOTIVE TECHNOLOGY 12
MATE-12	ATE12	AUTO TECH 12: AUTO ELECTRICITY AND ELECTRONICS
MATB-12	ATB12	AUTO TECH 12: BODY REPAIR AND FINISH
MATD-12	ATD12	AUTO TECH 12: ENGINE AND DRIVE TRAIN
YCC-11	YBCC11	MECHANICS CAR CARE
MCJ--11	CJ11	CARPENTRY AND JOINERY 11
MCJ--12	CJ12	CARPENTRY AND JOINERY 12
MTEW-10SEM	TEW10Z	WOOD TECHNOLOGY 10
MCJC-12	CJC12	CARPENTRY AND JOINERY 12: CABINET CONST.
MCJF-12	CJF-12	CARPENTRY AND JOINERY 12: FURNITURE CONST.
MTED-10SEM	TED10Z	DRAFTING AND DESIGN 10
MDDF-11	DDF11	DRAFTING AND DESIGN 11
MDDH-12	DDH12	DRAFTING AND DESIGN 12: ARCHITECTURE AND HABITAT DESIGN
MDDE-12	DDE12	DRAFTING AND DESIGN 12: ENGINEERING AND MECHANICAL DESIGN
MDDA-12	DDA12	DRAFTING AND DESIGN 12: ADVANCED DESIGN
MDD--12	DD12	DRAFTING AND DESIGN 12
MTEE-10SEM	TEE10Z	ELECTRONICS 10
MEL--11	EL11	ELECTRONICS 11
MEL--12	EL12	ELECTRONICS 12
MELAS12	ELAS12	ELECTRONICS 12: ANALOG CIRCUITS AND SYSTEMS
MELDS12	ELDS12	ELECTRONICS 12: DIGITAL SYSTEMS
YGAR-10SEM	YGAR10	GRAPHICS 10
YGAR-11	YGAR11A	GRAPHICS 11A
YGAR-1B	YGAR11B	GRAPHICS 11B
YGAR-12	YGAR12A	GRAPHICS 12A
YGAR-2B	YGAR12B	GRAPHICS 12B
MTEM-10SEM	TEM10Z	METAL TECHNOLOGY 10
MJLAD10SEM	YJAD0Z	JEWELLERY MANUFACTURE 10
MMFM-11	MFM11	METAL FABRICATION AND MACHINING 11
MMFM-12	MFM12	METAL FABRICATION AND MACHINING 12
<b>TECHNICAL STUDIES</b>		
MMFMF12	MFMF12	METAL FABRICATION AND MACHINING 12: ADVANCED FAB.
MMFMM12	MFMM12	METAL FAB. AND MACH. 12: ADVANCED MACHINING
MMFMW12	MFMW12	METAL FAB. AND MACH. 12: ADVANCED WELDING

MMFMJ12	MFMJ12	METAL FAB AND MACH 12: ART METAL AND JEWELLRY
MTEG-10SEM	TEG10Z	TECHNOLOGY 10
YENG-11	YENG11	ENGINEERING TECHNOLOGY 11
YENG-2A	TECH2A	ENGINEERING 12
<b>PHYSICAL EDUCATION</b>		
MPE--08B	PE8B	PHYSICAL EDUCATION 8 BOYS
MPE--08G	PE8G	PHYSICAL EDUCATION 8 GIRLS
MPE--09B	PE9B	PHYSICAL EDUCATION 9 BOYS
MPE--09G	PE9G	PHYSICAL EDUCATION 9 GIRLS
MPE--10B	PE10B	PHYSICAL EDUCATION 10 BOYS
MPE--10G	PE10G	PHYSICAL EDUCATION 10 GIRLS
MPE--11	PE11	PHYSICAL EDUCATION 11
MPE--12	PE12	PHYSICAL EDUCATION 12
YLEAD11	YLEAD2	LEADERSHIP 11
YLEAD12	YLEAD2	LEADERSHIP 12
YFTN-11		FITNESS 11
YFTN-12		FITNESS 12
<b>SERVICE</b>		
YCSER11	YCSER2	COMMUNITY SERVICE 11
YPTU-12SEM	YPTU2Z	TUTORING 12 (HALF YEAR)
YPTU-2A	YPTU2A	TUTORING 12 (FULL YEAR)
YPTU-2B	YPTU2B	TUTORING 12 (FULL YEAR)
<b>CAREER PREPARATION</b>		
MWEX-2A	WEX12A	WORK EXPERIENCE 12A
<b>LEARNING SERVICES PROGRAM (formerly COMMUNICATIONS)</b>		
XSIEP0CENJ	COMENJ	COM. ENGLISH JUNIOR
XSIEP0CCOJ	COMJ	COMMUNICATIONS JUNIOR
XSIEP0CMAJ	COMMAJ	COM. MATH JUNIOR
XSIEP0CSCJ	COMSCJ	COM. SCIENCE JUNIOR
XSIEP0CSSJ	COMSSJ	COM. SOCIAL STUDIES JUNIOR
XSIEP0CENS	COMENS	COM. ENGLISH SENIOR
XSIEP0CCOS	COMS	COMMUNICATIONS SENIOR
XSIEP0CMAS	COMMAS	COM. MATH SENIOR
XSIEP0CSCS	COMSCS	COM. SCIENCE SENIOR
XSIEP0CSSS	COMSSS	COM. SOCIAL STUDIES SENIOR
<b>ESL</b>		
XLDCE10RE	ESLLRE	ESL READING
XLDCE10WR	ESLLWR	ESL WRITING
XLDCE10SC	ESLSC	ESL SCIENCE
XLDCE10SS	ESLSS	ESL SOCIALS STUDIES
YICBS11	YICBS1	INTRO TO COMPUTER AND BUSINESS SKILLS

YCOMP11	YCOMP1	COMPOSITION
XLDCE10TRE	TREN	TRANSITIONAL ENGLISH
XLDCE10TRS	TRSS	TRANSITIONAL SOCIALS
XLDCE10TRL	TRLANG	TRANSITIONAL LANGUAGE
<b>FLEX</b>		
MSS--08FLX	FLHM8A	FLEX HUMANITIES 8A
MEN--08FLX	FLHM8B	FLEX HUMANITIES 8B
MFR--08FLX	FLFR8	FLEX FRENCH 8
XAT--08FAX	FLFA8	FLEX FINE ARTS 8
<i>MMU--08FAX</i>		<i>FLEX MUSIC 8</i>
<i>MDR--08FAX</i>		<i>FLEX DRAMA 8</i>
<i>MVA--08FAX</i>		<i>FLEX VISUAL ARTS 8</i>
MSS--09FLX	FLHM9A	FLEX HUMANITIES 9A
MEN--09FLX	FLHM9B	FLEX HUMANITIES 9B
MFR--09FLX	FLFR9	FLEX FRENCH 9
MSS--10FLX	FLHM0A	FLEX HUMANITIES 10A
MEN--10FLX	FLHM0B	FLEX HUMANITIES 10B
<b>FRENCH IMMERSION</b>		
FADRF08	FICO8	FRANCAIS-INITIATION A L'EXPRESSION DRAMATIQUE 8 (COMMUNICATIONS)
FFRAL08	FILA8	FRANCAIS LANGUE 8 (LANGUAGE)
FSCF-08	FISC8	SCIENCES NATURELLES 8 (SCIENCE)
FSCHF08	FISS8	SCIENCES HUMAINES 8 (SOCIAL STUDIES)
FADRF09	FICO9	FRANCAIS ANIMATION/ CONNAISSANCE DES MEDIA (COMMUNICATIONS)
FFRAL09	FILA9	FRANCAIS LANGUE 9 (LANGUAGE)
FSCF-09	FISC9	SCIENCES NATURELLES 9 (SCIENCE)
FSCHF09	FISS9	SCIENCES HUMAINES 9 (SOCIAL STUDIES)
FPLAN10	FIPL10	PLANIFICATION 10 (PLANNING 10)
FFRAL10	FILA10	FRANCAIS LANGUE 10 (LANGUAGE)
FSCF-10	FISC10	SCIENCES NATURELLES 10 (SCIENCES)
FSCH10	FISS10	SCIENCES HUMAINES 10 (SOCIAL STUDIES)
FFRAL11	FILA11	FRANCAIS LANGUE 11 (LANGUAGE)
FSCH11	FISS11	SCIENCES HUMAINES 11 (SOCIAL STUDIES)
FFRAL12	FILA12	FRANCAIS LANGUE 12 (LANGUAGE)
<b>LA CLASSES (LINKS)</b>		
XSIEP0AEN1	LAC1EN	LAC1 ENGLISH
XSIEP0AMA1	LAC1MA	LAC1 MATH
XSIEP0ASC1	LAC1SC	LAC1 SCIENCE
XSIEP0ASS1	LAC1SS	LAC1 SOCIAL STUDIES
XSIEP0AEN2	LAC2EN	LAC2 ENGLISH

XSIEP0AMA2	LAC2MA	LAC2 MATH
XSIEP0ASC2	LAC2SC	LAC2 SCIENCE
XSIEP0ASS2	LAC2SS	LAC2 SOCIAL STUDIES
XCEX-10	CAPA1Z	CAREER EXPLORATION
<b>SUMMIT</b>		
MEN--08SUM	MIEN8	SUMMIT ENGLISH 8
MSS--08SUM	MISS8	SUMMIT SOCIAL STUDIES 8
MMA--08SUM	MIMA8	SUMMIT MATH 8
MSC--08SUM	MISC8	SUMMIT SCIENCE 8
MEN--09SUM	MIEN9	SUMMIT ENGLISH 9
MSS--09SUM	MISS9	SUMMIT SOCIAL STUDIES 9
MMA--09SUM	MIMA9	SUMMIT MATH 9
MSC--10SUM	MISC9 AND MISC10	SUMMIT SCIENCE 9/10
MEN--10SUM	MIEN10	SUMMIT ENGLISH 10
MSS--10SUM	MISS10	SUMMIT SOCIALS STUDIES 10
MMA--10SUM	MIMA10	SUMMIT MATH 10
<b>TUMANOS</b>		
MEN--09TUM	TMEN9	TUMANOS ENGLISH 9
MSS--09TUM	TMSS9	TUMANOS SOCIAL STUDIES 9
MMA--09TUM	TMMA9	TUMANOS MATH 9
MMA--09TUE	TMEMA9	TUMANOS ESSENTIALS OF MATH 9
MSC--09TUM	TMSC9	TUMANOS SCIENCE 9
MEN--10TUM	TMEN10	TUMANOS ENGLISH 10
MSS--10TUM	TMSS10	TUMANOS SOCIAL STUDIES 10
MMA--10TUM	TMMA10	TUMANOS MATH 10
MEMA-10TUM	TMEMA0	TUMANOS ESSENTIALS OF MATH 10
MSC--10TUM	TMSC10	TUMANOS SCIENCE 10
<b>SKILLS AND PLANNING</b>		
XLDCD10SDC	SDC	SKILLS DEVELOPMENT BLOCK
MPLAN10	PLAN10	PLANNING 10
XAT--12STY	STUDY	STUDY BLOCK
<b>SPECTRUM</b>		
MCOM-11SPC		SPECTRUM COM 11
MSADP11SPC		SPECTRUM DRAWING AND PAINTING 11
MSADP12SPC		SPECTRUM DRAWING AND PAINTING 12
MSC--10SPC		SPECTRUM SCIENCE 10
MTEX-11SPC		SPECTRUM TEXTILES 11
MTEX-12SPC		SPECTRUM TEXTILES 12
MCCN-12SPC		SPECTRUM COMP. CIV. 12
<b>SPECTRUM</b>		
MEMA-10SPC		SPECTRUM ESSENTIALS OF MATH 10
MHEF-10SPC		SPECTRUM FOODS 10
MFDS-11SPC		SPECTRUM FOODS 11
MFDS-12SPC		SPECTRUM FOODS 12
MPE--10SPC		SPECTRUM PE 10
MPE--11SPC		SPECTRUM PE 11

MPE--12SPC		SPECTRUM PE 12
MSCT-11SPC		SPECTRUM SCIENCE AND TECH 11
MEN--10SPC		SPECTRUM ENGLISH 10
MCJ--11SPC		SPECTRUM CARPENTRY 11
MCJ--12SPC		SPECTRUM CARPENTRY 12
MSACS11SPC		SPECTRUM CERAMICS 11
MSACS12SPC		SPECTRUM CERAMICS 12
MAT--11SPC		SPECTRUM MECHANICS 11
MAT--12SPC		SPECTRUM MECHANICS 12
MSS--11SPC		SPECTRUM SOCIAL STUDIES 11
MAF--11SPC		SPECTRUM ART FOUNDATIONS 11
MAF--12SPC		SPECTRUM ART FOUNDATIONS 12
MCOM-12SPC		SPECTRUM COMMUNICATIONS 12
MEMA-11SPC		SPECTRUM ESSENTIALS OF MATH 11
MSS--10SPC		SPECTRUM SOCIAL STUDIES 10

## PROVINCIAL EXAM SCHEDULE -- JUNE 2010

Please go to <http://www.bced.gov.bc.ca/exams/> for the 2010 Exam Schedule.

\* All Provincial Examinations are designed to be completed within two hours.  
Students are permitted one additional hour to complete, if required.

## INTERMEDIATE PROGRAM REQUIREMENTS

FOUNDATION COURSES	
GRADE 8	GRADE 9
<b>(all students must take these courses)</b>	
English 8 (English 8 or EN 8 Summit or EN 8 Flex) Social Studies 8 (Social Studies 8 or SS 8 French Immersion)	English 9 Social Studies 9
Math 8	Math 9 / EMA 9
Science 8	Science 9
Physical Education 8	Physical Education 9
French 8	
Health & Career Education 8	Health & Career Education 9
Fine Arts 8 or Band 8	Fine Arts 9
Applied Skills 8	Applied Skills 9
SELECTED COURSES	
Plus semestered choices from:	
<b>APPLIED SKILLS</b> General Business Education 10 Business Communication/Keyboarding 10 Drafting 10 Electronics 10 Metal Work 10 Graphics Arts 10 Wood Work 10 Technology 10 Jewellery Art & Design 10 Home Ec Foods 10 Home Ec Textiles 10	<b>FINE ARTS</b> Art 10 Visual Art General 10 Visual Art Drawing & Painting 10 Beginners Band 9 Concert Band 10 Choir 10 Orchestral Strings Beginners 10 Drama 10
Note: All courses with 2 credits (half year).	

## GRADUATION PROGRAM REQUIREMENTS

GRADUATION 2010
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## CREDIT REQUIREMENTS

Grades 10 – 12

80 credits (equivalent to twenty 4-credit courses) required for graduation

48 credits are Required Courses, including:

- Language Arts 10 (4 credits)
- Language Arts 11 (4 credits)
- Language Arts 12 (4 credits)
- Social Studies 10 (4 credits)
- Social Studies 11, Canadian Civics 11 or BC First Nations Studies 12 (4 credits)
- Science 10 (4 credits)
- Science 11 or 12 (4 credits)
- Mathematics 10 (4 credits)
- Mathematics 11 or 12 (4 credits)
- Physical Education 10 (4 credits)
- Fine Arts or Applied Skills 10, 11 or 12 (4 credits)
- Planning 10 (4 credits)

4 credits for Graduation Transition (G.T.)

4 credits required in Fine Arts and/or Applied Skills at any time during Grade 10, 11 or 12. This can include 2 credits from each area

28 credits are Elective Courses

Minimum of 16 credits at the Grade 12 level including Language Arts 12. There is a limit of 28 credits of Board/Authority-Authorized course credit that count as elective credits towards graduation.

## EXAMS

Students required to write 5 Graduation Program Exams:

- Grade 10 Language Arts (20%)
- Grade 10 Science (20%)
- Grade 10 Mathematics (20%)
- Grade 11 Social Studies (20%) or 1<sup>st</sup> Nations Studies 12 (40%)
- A Grade 12 Language Arts exam – either for English 12, Communications 12, Technical and Professional Communications 12, or Français Language Première 12 (40%)

Except for the Language Arts 12 exams, all other Grade 12 exams are optional.

## CHOICE AND FLEXIBILITY

All public post-secondary credits will count towards graduation.