

Howard S. Billings Regional High School



Course Dictionary
2015 - 2016

Secondary V

HISTORY OF HOWARD S. BILLINGS REGIONAL HIGH SCHOOL

In the early 1960's, the site of Howard S. Billings contained Maple Elementary School, which lay tucked beside McLeod Street and some yards away securing the corner of Maple and McLeod stood Chateauguay High School.

Launched on a solid educational base inherited from Chateauguay High, September 1967 saw students from Secondary I to V, including Chateauguay's recently amalgamated English-speaking Catholic students, move into the two existing schools. Since facilities could not accommodate the more than 1400 students at one time, shifts were organized whereby the Juniors attended in the forenoon and Seniors after lunch.

Work on the 2400 student 5 million dollar school began in mid-February of 1968. Although construction and teaching went on simultaneously, it was mainly with the commendable adaptability of staff and students, along with the cooperation of the contractor and sub-contractors, that the courses of studies were successfully completed during the construction period.

The "Grand Opening" took place on November 15, 1968, with educational displays by some 500 students at the stellar event. Chateauguay High and Maple Elementary Schools became history as the new complex became Howard S. Billings Regional High School, named after the guest speaker, and then retired Deputy Minister of Education, Dr. Billings.

Already hailed as one of the most advanced Polyvalent schools in the province, it featured some 14 shops, 8 home economics classes, 7 commercial rooms, 6 gymnasias, facilities for music teaching and practice, modern equipped science labs, a Guidance Centre, a chapel for Catholics and Protestants, library facilities for 30,000 volumes that could accommodate 4 classes per period, a 500 student auditorium and 800 seat cafeteria.

Prior to the opening, some 500 Native students from Kahnawake entered Billings, bolstering the ranks that continued to grow. In the early 70's the student body outgrew the planned facilities reaching over 2800. Students were housed in some 100 homerooms and taught by a staff of over 170 teachers, complemented by some 75 technical and support staff and 7 administrators.

High teaching standards and a developing school spirit moved Billings to excel in academics, drama, science fairs, and sports embodied in some 80 extra-curricular school organizations.

The 70's and 80's witnessed a decline in enrolment that eventually saw the former Maple Elementary School become the new home of the Board Office and Adult Education (Nova Career Centre).

Present day Billings offers a variety of programs to cater to the diverse needs of our student population, such as the International Baccalaureate (IB) program, Options Etudes Program (an enriched bilingual middle school program), the Bilingual program, and a Work-Oriented Training Pathway program. An Alternative program opened as a "school within a school" in September 1996: Directions is a successful and thriving alternative environment serving the needs of Cycle II (grade 10 & 11) students who have had difficulty achieving success in the traditional classroom setting.

Today, our enrolment is slightly under 1000 students with approximately 60 teachers, Resource and Native Resource support departments, a Student Services – Guidance department with support for students in Guidance counselling & Psychology, Health, Social services, Drug & alcohol intervention, Organizational help & work on behaviour & other issues in SOS (Student Options Service) from our social aide technicians, and liaison support from our local Police department.

HSB Secondary Cycle II (Senior) Learning Paths

Comprised of Secondary III, IV and V students, the H.S.B. Senior School offers two pathways in education to allow for diversification: the General Education Pathway and the Work-Oriented Training Pathway. Within these pathways, there are a variety of programs, such as the English, Bilingual, IB (International Baccalaureate Program) and Preparation for Work programs. They are further described below.

Both enrichment and/or remediation may be offered based on students' needs and teachers' referrals. Advanced courses are offered in Secondary IV and V. An Arts program is compulsory for students at the Secondary III & IV levels.

There is also a comprehensive choice of other courses as options as well as additional Arts options, available in Secondary IV and V. Our goal is to ensure that our students are well prepared for their post-secondary choices.

The program for Secondary Cycle Two has four distinctive characteristics:

- It targets the development of competencies by students actively involved in the learning process.
- It integrates all the subjects into a coherent whole focused on major issues of contemporary life.
- It explicitly targets cross-curricular learning, that transcends the boundaries between subjects.
- It calls on the professional expertise of school staff and allows for individual and collective choices.

The General Education Pathway leads to possibilities in Vocational training, and /or CEGEP or college-level studies, followed by entry into the labour market or university studies.

The Work-Oriented Training Pathway offers work-study programs intended to give students practical training for the workplace, while continuing general core education courses adapted to their needs and academic level. This path may lead directly to the job market, **OR** under certain conditions, may lead to vocational training or continued studies in general education.

Programs within the General Educational Pathway

IB - International Baccalaureate Program

The International Baccalaureate Middle Years Program focuses on respect for cultures, religions, racial and intellectual diversity to foster a better understanding of others and concerns for international issues. It promotes a holistic perspective to learning and stresses the importance of communication, which in turn develops language skills.

Bilingual Program

The Bilingual Program is designed for the majority of students who have successfully completed the bilingual program in the elementary sector. This program includes French as a Second language, as well as other subjects taught in French such as Géographie, Histoire, Éducation physique, Économie etc, (grade 8 includes levels 8 & 9 FSL together; in grade 9, students follow the grade 10 FSL course). In grade 10, these students will take the Secondary 5 FSL course required for graduation. In grade 11, students may take an enriched FSL course or if their marks warrant, a French mother tongue course.

English Program

The English Program is designed for students who have experienced difficulties within the bilingual program at the Secondary Cycle 1 level (grade 7 & 8). This program is only available in Cycle II. The standardized curriculum of this program includes French as a Second Language courses. All other subjects are taught in English.

Alternative Program

“Directions” alternative program is designed as a “school within a school” for students going into Secondary V who are encountering difficulties in a regular classroom setting. The students in this program are academically capable yet are considered at risk, in need of a fresh start in an alternative setting. Teachers, administrators and student services professionals recommend students for Directions, whose staff interviews prospective candidates and formulates a list of accepted students. Curriculum and pedagogy focus on goal-setting, teamwork, community building & empowerment to help at risk students regain confidence, experience positive learning experiences and learn skills to become successful students.

The Work-Oriented Training Pathway

A student who is 15 years of age before the 1st day of classes of the school year, and who has not met all the competencies of Cycle I may enrol in or be referred to the *Work-Oriented Training Path* if this path is the most likely to meet their interests, needs and abilities. The Work-Oriented Training Path is comprised of two programs: *Training for Semiskilled Occupations* and *Preparation for Employment*.

Training for Semi-skilled Occupations is a 1 year program geared toward students who have achieved the competencies of the Elementary program in English and Mathematics, but who have not achieved these competencies at the Secondary Cycle I level. This program includes English, French and Mathematics, as well as Introduction to the World of Work, and 375 hours of preparation for a specific semi-skilled trade. There will be some possibilities for moving from this path to another should the need or interest arise. These possibilities will depend on the competencies students have acquired.

Preparation for Employment is a 3 year program geared toward students who have not achieved the elementary level program competencies for English and Mathematics. This program includes a general education component comprised of the core courses, and a practical training component consisting of an Introduction to the World of Work, World of Work Orientation, and Work Skills.

COURSE SELECTION PROCEDURES

To take place after Term 2 Report Cards

Every student in Secondary 3 and 4 is given a copy of the course dictionary pertaining to their grade level, containing all the information needed about compulsory and option courses for the next school year. They also receive the course selection sheet and school registration form to bring home. Students are responsible to:

1. Complete the course option part of their course selection sheet.
2. Have the course option form signed by their parent/guardian.
3. Have parents/guardians correct information that's changed on the registration form, sign and return it.

Students **must return their course selection** and registration sheets to the Guidance office or to the Reception in the Administration office **no later than May 1st, 2015.**

Parents and/or students are welcome to call or make an appointment to meet with the Guidance Counsellor if they wish to discuss course option selections. **Students may request changes to their option selection with parental permission up to the end of June or during course option change period, which starts during the 2nd week of September and runs for 1 week only. Request for Course Change forms must be used.**

When setting your educational goals, and subsequently selecting your courses, you are making a commitment. Great care is required in choosing your options since changing from one option to another later on may be difficult or even impossible. To help you decide which option(s) you might select, please read the next section on High School Diploma requirements, CEGEP entrance and specific program requirements, as well as Adult Education Vocational training program requirements.

Be sure to adhere to the deadline for course selection so that you will not be disappointed. Delay in returning your course option selection form may result in a student not getting their choice of options.

Note: For a student to move up to Cycle 2 Year 3 (Grade 11), he/she must successfully acquire the competencies in English Language Arts 406, and French 2nd Language 404, and have obtained a minimum of 20 credits in their Cycle 2 Year 2 (grade 10) courses. Failing this, students may not acquire the necessary credits to graduate.

Have Questions?

Call the Student Services Department at 691-3230, ext. 340 to speak with the Guidance counsellor, Ms. Kateri Duknic, or drop in during recess, lunch, or after school to make an appointment or ask questions.



Programs

SEC.1 PLACEMENT CRITERIA*
 IB: Students are selected after writing an entrance exam in October or June

ENGLISH: Students must have passed 2 of 3 core subjects (Eng/Math) & obtained less than 65% in French

BILINGUAL: Students must have passed core subjects (Eng/Math/Fre) & obtained at least 65% in French

LEARNING CENTRE: Students have relatively severe learning & physical disabilities, & are coded - School Board approval is required for placement

*subject to change based on staffing & scheduling parameters

PROMOTION CRITERIA

Sec.1 & 2: Students must pass 2 of 3 core subjects (Eng/Math/Fre*) to be promoted

Sec. 3 & 4: Students must pass 2 of 3 core subjects (Eng/Math/Fre*) to be promoted and 1 of 2 other subjects (Sci/Hist)

*In addition to the above-mentioned prerequisites, students must pass French to remain in the Bilingual program & for all programs, the age of the student will be taken into consideration

LEARNING CENTRE
 Special Needs instruction for all subjects in a self-contained class with special needs technician support in class

WORK-ORIENTED TRAINING PATH (Pre-work)
 Work preparation program designed to prepare students for the workforce after 3 years

Students have NOT obtained Elementary Cycle 3 competencies in English & Mathematics

Leads to "Qualification" in a trade.

WORK-ORIENTED TRAINING PATH (Semi-skilled)
 Work skills program designed to prepare students for the workforce after 1 year

Students have NOT obtained Secondary Cycle 1 (Grade 8) competencies in English & Mathematics

Leads to "Qualification" in a trade.

DIRECTIONS
 Adapted setting, instruction, curriculum, & evaluation, in a self-contained class

Students are selected based on being at-risk of dropping out & not graduating, the efficacy of the program for each student & a willingness to participate in the program

Leads to "Graduation" (DES)

OPTIONS ETUDES
 SEC.1 & 2: Alternate linguistic setting (HSB & Gabrielle-Roy) with a Sports & Entrepreneurship concentration

INTERNATIONAL BACCALAUREATE
 Sec.1 & 2: Français Enrichi instruction & other subject in French

Sec.3, 4, 5: Français Enrichi and other subjects taught in French - Français de Base may be offered to more challenged students in FSL

All subjects & grade levels adapted to required IB curriculum & evaluation

Leads to "Graduation" (DES) & IB Certification

BILINGUAL
 Sec.1 & 2: Enriched French instruction & Social Studies in French

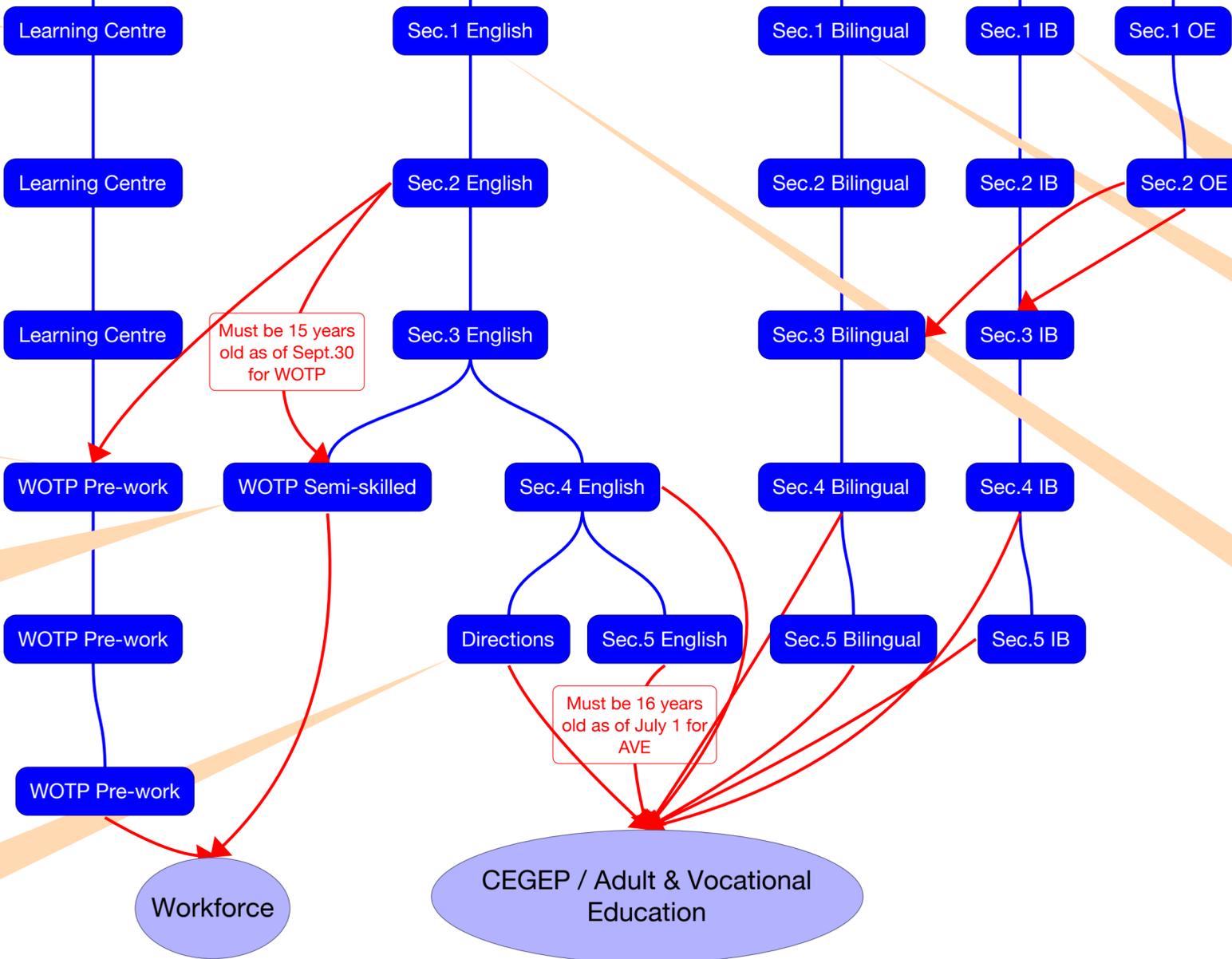
Sec.3, 4, 5: Enriched French Instruction with the possibility of other subjects taught in French

Leads to "Graduation" (DES) & Bilingual Recognition

ENGLISH CORE
 Sec.1 & 2: Basic French instruction & all other subjects taught in English

Sec.3, 4, 5: Basic French Instruction with all other subjects taught in English

Leads to "Graduation" (DES)



Additional CEGEP Program Prerequisites

All CEGEP programs require a Secondary School Diploma (SSD), which is granted with a minimum of **54 credits (20 of these from Sec. 5)**, and which must include Sec. 5 English, French, & Phys. Ed. OR ERC, AND Sec. 4 Math, Science, History, & Art.

Certain CEGEP programs require specific additional courses. Prerequisite courses that were not taken in High School MAY be added to the student's program in CEGEP. Verify requirements online at the CEGEP websites as these may be subject to change.

Please Note: Only programs for which additional High School prerequisites exist are listed below.

Prerequisites

(* = Not required but recommended)

Pre-University Programs (2 years)	Sc. or Tech. Sc. Math. (506)	Chemistry (504)	Physics (504)	Music (502, preferably 504)	Sc. Or Tech. Sc. Math. (406)	Environment-Sc. Tech. (404) or Sc. Environment (402)	Sc. Tech. (404) or Applied Sc. Tech. (406)
Arts and Sciences	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Commerce / International Business	<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>
Computer Science and Mathematics	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Honours Social Science & Commerce	<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>
Music				<input checked="" type="checkbox"/> *			<input checked="" type="checkbox"/>
Science						<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Health / Pure and Applied / IB / First Choice / Honours	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
Social Science with Mathematics	<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>

Double DEC (3 years)

Modern Languages and Music				<input checked="" type="checkbox"/> *			<input checked="" type="checkbox"/>
Science and Music	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> *		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Social Science and Music				<input checked="" type="checkbox"/> *			<input checked="" type="checkbox"/>
Science and Social Science	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Career Programs (3 years)

Accounting and Management Technology	<input checked="" type="checkbox"/> *				<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>
Animal Health Technology		<input checked="" type="checkbox"/> *			<input checked="" type="checkbox"/> *	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Architectural Technology					<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>
Biomedical Laboratory Tech		<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Bio-Pharmaceutical Technologies					<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>
Building Systems Engineering Technology					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Computer Science Technology	<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>
Computerized Systems Technology					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Dental Hygiene	<input checked="" type="checkbox"/> *	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Diagnostic Imaging					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Engineering / Civil Engineering Technologies	<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Environmental and Wildlife Management	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Industrial Design	<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>
Industrial Electronics					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Laboratory Technology / Analytical Chemistry	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Mechanical Engineering Technologies			<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Nursing		<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/> *	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Physical Rehabilitation			<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Radiation Oncology	<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Respiratory and Anesthesia Technology		<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Electronics Engineering Technology					<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>

Professional Vocational Education

Professional Vocational Education is available at Adult Education Centers around the province in both English and French. The philosophy of these centers is learning by doing. Learning is done in realistic settings with state of the art equipment. Upon completion of a training program, graduates receive a Diploma of Vocational Studies (DVS) from the Ministry of Education. In today's labour market, these trained technicians are highly sought after due to shortages in skilled labour.

All programs are tuition free for Quebec residents who have the appropriate prerequisites as recognized by the Ministry of Education. The requirements for entrance into a vocational training program are:

- Have a Secondary School Diploma (DES), **OR**
- Be 16 years of age as of September 30 of the school year in which the training is to begin, **AND have obtained the necessary prerequisites for the program:**

- **Secondary V credits in English Language Arts and Secondary IV credits in French and Mathematics:**

Health, Assistance and Nursing (5825)

Travel Sales (5736)

- **Secondary IV credits in English Language Arts, French and Mathematics:**

Accounting (5731)*

Aesthetics (5535)

Aircraft Mechanical Assembly (5807)

Aircraft Structural Assembly (5697)

Automated Systems Electromechanics (5781)

Automobile Mechanics (5798)*

Automotive Body Repair and Repainting (5717)

Beef Production (5668)

Business Equipment Technical Service (5765)

Cabinet Making (5530)

Cable and Circuit Assembly (5769)

Carpentry (5819)*

Computing Support (5729)

Dairy Production (5667)

Dental Assistance (5644)

Desktop Publishing (5721)

Electricity (5795)

Electronic Audio/Video Equipment Repair (5771)

Elevator Mechanics (5700)

Fire Safety Techniques (5822)

Furniture Finishing (5642)

Hairdressing (5745)*

Hog Production (5671)

Horticulture and Garden Centre Operations (5788)*

Hotel Reception (5783)

Industrial Construction and Maintenance Mechanics (5760)

Industrial Drafting (5725)

Installation / Repair of Telecoms. Equipment (5766)

Interior Decorating and Visual Display (5827)*

Machining Technics (5723)

Marine Mechanics (1750)

Moulding Machine Set-up and Operation (5693)

Pastry Making (5797)

Pharmacy Technical Assistance (5802)

Plumbing and Heating (5648) (5833)

Precision Sheet Metal Work (5744)

Printing (5813)

Professional Cooking (5811)

Professional Sales (5821)

Protection and Development of Wildlife Habitats (5679)

Refrigeration (5815)

Residential and Commercial Drafting (5750)*

Sale of Mechanical Parts and Accessories (5694)

Secretarial Studies (5712)*

Sheet Metal Work (5733)

Trucking (5791)

Welding and Fitting (5695)*

- **Secondary III credits in English Language Arts, French and Mathematics:**

Assistance in Health Care Facilities (5816)*

Bread Making (5770)

Commercial and Residential Painting (5616)

Diamond Drilling (5753)

Food and Beverage Services (5793)

General Building Maintenance (5711)

Home Care Assistance (5817)*

Landscaping operations (5820)*

Machine Ops., Mineral and Metal Processing (5774)

Masonry: Bricklaying (5803)

Northern Building Maintenance (5702)

Northern Heavy Equipment Operations (5784)

Ore Extraction (5761)

Plastering (5786)

Preparing and Finishing Concrete (5617)

Production Equipment Operation (5810)

Retail Butchery (5768)

RV Maintenance and Repair (5714)*

Tiling (5800)

***New Frontiers School Board offers these vocational training programs**

Cycle 2 year 3 (Secondary V – grade 11) Compulsory Courses

English Language Arts

In the Secondary Cycle II English Language Arts program (SELA2 or English for grades 9, 10, 11), students develop competencies in oral communication, reading and writing. They have many opportunities to interact in class, to listen, to read, and to produce a broad range of media, and oral, written and visual texts. This is basically a literacy program which prepares students to make intellectual and aesthetic judgments, raise questions, articulate their thoughts and respect the ideas of others. Discovering writers, exploring and analyzing texts, and discussing their understanding and interpretation of these texts with their fellow students help students to consolidate and increase their language knowledge.

Students learn that every text is a deliberate, social construct. As they consider how a writer persuades a reader, they learn that meanings are designed with very specific intentions in mind.

The SELA2 program promotes the importance of reading and production to develop personal interests, as well as for learning and pleasure; the use of technology in reading and producing texts; enrichment in problem-solving strategy and formal occasions for self-evaluation as a means for students to monitor their progress, reflect on their learning and establish future learning goals.

Talk is central to individual and social processes of making meaning, as students learn to extend their views, opinions, preferences and knowledge in dialogue with the teacher and their peers. Varied opportunities to use talk to learn and to communicate reinforce the sense of community in the classroom, and the importance of exchanges with peers and teacher to the development of students' literacy.

SELA2 is meant to provide:

- Opportunities for students to work both individually and collaboratively
- Regular and sustained periods for students to read and produce texts for pleasure and to learn
- Opportunities for students to work in situations that integrate aspects of all three competencies
- Opportunities for students to read and produce a balance of spoken, written and media texts
- Access to texts that reflect and expand personal interests and preferences
- Student choice regarding projects, activities, and the topics/subjects for reading and production
- Regular opportunities and time for students to reflect on literacy and learning and to self-evaluate

English Language Arts

MELS Code 632506
6 Credits – Secondary 5

The Secondary V English program continues to develop the students' abilities in reading, writing, speaking, and critical viewing. Students will be reading novels, plays, and short stories in depth, interpreting texts for underlying meaning. Discussion of characters, themes, and plot is important. Poetry is read, discussed, and written. Shakespeare is also read in some Secondary V classes.

Students will continue to develop their creative writing and expository writing abilities. The students will become skilled in essay writing and library and Internet research. Public speaking is developed through extemporaneous and planned presentations and speeches.

French Second Language Bilingual & English Program

MELS Code 634504
4 credits – Secondary 5

All levels follow the new program as outlined by the MEQ. Every student attending H.S.B. has a textbook, workbook, and reading book. We strongly recommend the purchase and use of a "Bescherelle" for verbs and a French-English dictionary.

The goal and design of the Regular French program at the Secondary 5 level is to improve oral skills, and encourage reading correctly, writing properly, and having a better understanding in French.

634-510 Interaction orale 40 %

634-520 Compréhension orale et écrite 30 %

634-530 Production écrite 30 %

Mathematics

Mathematics 504 - Cultural, Social and Technical Option

MELS Code 563504

Prerequisite: 60% minimum in Math 404 OR

4 credits – Secondary 5

60% in Math 406 + an appropriate bridge course

This course is designed for students who are heading toward professional training, technical & trade programs and pre-university programs in Arts and Social sciences. Emphasis will be on performing tasks & interpreting the results, and applying them to real life situations.

The course is made up of the following sections: Algebra, Probability, Geometry and a Student Project

- The Algebra section covers systems of two variable linear inequalities and optimization
- The Probability section covers interpretation of probability situations and conditional probability
- The Geometry section covers equivalent figures and graph theory
- The Student Project is a student centered evaluation in which the student creates a project that demonstrates their understanding of the mathematics material over the last five school years

Note: Students must achieve a minimum of 65% in Mathematics 504 to advance to CEGEP and may require a bridge course depending on their choice of program.

Mathematics 565-506 – Science Option

MELS Code 565506

6 credits – Secondary 5

Prerequisite: Students must have a minimum of 60% in Science-Mathematics 406 OR a minimum of 60% in Technical & Science Math 406 + the appropriate bridge course OR CST-Math 404 + the appropriate bridge course.

This course is designed for students who are heading toward technical programs in many fields in CEGEP as well as pre-university programs in technologies and sciences. Emphasis will be on performing tasks, on abstract theorizing, origins and functionality of certain phenomenon, research procedures, and subject matter from the field of science.

The course is broken down into the following sections: Algebra, Geometry and a Student Project

- The Algebra section covers absolute value, radicals, exponents, logs, operations on functions, absolute value, rational, square root, exponential, log, trigonometric & piecewise functions, linear and non-linear systems of equations and inequalities
- The Geometry section covers equivalent figures, conics, the standard unit circle, vectors, and trigonometric identities
- The Student Project is a student centered evaluation in which the student creates a project that demonstrates their understanding of the mathematics material over the last 5 years of school

Note: Students must achieve a minimum of 65% (often more like 75%+) to advance to some CEGEP programs.

Mathematics 414 - Cultural, Social and Technical Option

MELS Code 563414

4 credits – Secondary 4

This course is designed for students who are heading towards professional training, technical and trade programs, as well as pre-university programs in Arts and some Social Science programs. Emphasis will be on performing tasks, interpreting the results and applying them to real life situations.

The course is broken down into the following sections: Algebra, Statistics, Probability, and Geometry.

- The Algebra section covers two variable linear inequalities, properties of functions, various functions, and systems of linear equations.
- The Statistics section covers single variable distributions, percentiles, and mean deviation as well as two variable distributions through linear correlation. Students will also construct tables and graphs to illustrate and aid interpretation of data.
- The Probability section covers interpretation of probability situations, odds, fairness and mathematical expectation.
- The Geometry section covers analytic geometry, isometric and similar triangles and trigonometry.

Note: Students must achieve a minimum of 65% to meet the minimum CEGEP entrance requirements. In most cases, students must also take a bridge course or another higher level of Math to be accepted.

Social Studies

Contemporary World Studies

MELS Code 592504

4 credits – Secondary 5

The goal of Contemporary World is to prepare students to be able to interpret and take a position on a contemporary world problem. Using a variety of documents such as maps, texts, graphs, tables, illustrated documents and timelines a student will be expected to carry out tasks related to a contemporary world such as:

- Finding information (factors, facts, points of view, world context) on various manifestations of a particular problem in the world
- Determining causes and consequences
- Establishing similarities and differences in the forms the problem takes in the world
- Identifying global trends
- Explaining the problem
- Identifying interests and values that underlie the points of view of actors such as states, international institutions, multinational firms, citizen groups and media
- Establishing points of convergence and divergence among the points of view of actors
- Identifying some solutions proposed by actors
- Recognizing some advantages and disadvantages of the solutions proposed
- Expressing their opinion on an issue, supporting it with arguments

Personal Development

Physical Education

MELS Code 543502
2 credits – Secondary 5

Physical Education is a compulsory course for all students as prescribed by the Department of Education. The course focuses on skill development in team and individual sports as well as basic knowledge and rules of the games. One's personal physical fitness will be stressed. Students must wear gym shorts, T-shirt, socks, and proper footwear. HSB gym wear is available for purchase.

Each term, students will be given a written test, a practical test and a fitness test. Tests will account for 60% of their physical education mark. The remaining 40% is based on overall effort, attitude and sportsmanship, participation, and conduct.

Permanent or long-term exemptions can be made for the chronically ill. Temporary exemptions can be made for students who are medically unfit for a week or more. In both cases a note from the doctor must be brought in attesting to the condition and given to the Physical Education teacher who will turn them over to the School Nurse. Short-term exemptions can be made for students who are unable to participate in Physical Education on a given day. A note from a parent or guardian stating the reason is necessary.

Ethics and Religious Culture

MELS Code 569502
2 credits – Secondary 5

This program promotes the development of three competencies to enable students to:

- Reflect on ethical questions
- Demonstrate an understanding of the phenomenon of religion
- Engage in dialogue

There are two main areas explored and studied in this program:

Ethics – In the Ethics section, students will learn:

- To think rigorously about different aspects of certain social realities and about subjects such as justice, happiness, laws and regulations
- To ask questions of themselves such as: Which values should guide people in their relationships in society? What characterizes acceptable behaviour and unacceptable behaviour? How can we recognize these behaviours?

Thus it would be easier for students to gather their ideas and express them with respect and conviction.

Religious Culture – In the Religious Culture section, students will progressively learn:

- To know the importance of Catholicism and Protestantism in the religious heritage of Quebec
- To discover the contribution that Judaism and the spiritualism of aboriginal peoples have had in the religious heritage of Quebec
- To know elements of other religious traditions that have appeared recently in Quebec society

Note: One of the above two courses is required to graduate and get a high school diploma

Arts Education Compulsory Courses (As per previous year's courses)

Dance V

Course Fee: Approximately \$10.*

MEQ Code 672502

2 credits – Secondary 5

This course is designed to enable the student to appreciate many different types of dance. They will have the opportunity to perform and teach creative dances, as well as interpret nonverbal movements, and read simple choreography steps. Students will also learn a variety of popular social dances.

Drama V

Course Fee: Approximately \$10.*

Prerequisite: Secondary 2, 3, and 4 Drama

MEQ Code 670502

2 credits – Secondary 5

Drama 5 continues the “Method” acting process. Term projects will be done during two of the four terms, as well as term tests and a final evaluation. By now, the students are familiar with stage terms, scripts, acting technique and the value of body & vocal warm-ups. Improvisations are at a more difficult level and are derived from what is learned in each chapter of the text. Criticism is an essential part of developing competence. Students work on improvisations and on memorized scenes that are performed at the end of each term. During one term, they will thoroughly study one full length play. Students should also be auditioning for any acting parts available in school plays, concerts or in other classes.

Music V

Course Fee: Approximately \$55.*

MEQ Code 669502

2 credits – Secondary 5

Students are expected to continue to work on their concert band instrument and to further develop their ability to compose and perform. In order to fulfill the competency of appreciation, students will attend various cultural field trips to help enrich the program. Students will also participate in the music program’s major concerts and they will need to practice their instrument on a regular basis.

Visual Art V

*Course Fee: Approximately \$30.**

MEQ Code 668502

2 credits – Secondary 5

Students will explore a variety of art materials to create painted self-portraits, assemblages & collages, charcoal sketches, papier-mâché sculptures, origami, pastel illustrations... etc. Students may gain inspiration from artists throughout history, from the Neanderthal cave paintings to Andy Warhol's Pop Art. There is the possibility of field trips to visit Montreal Museums.

Secondary V Option Courses

Most of the following option courses are 4-credit options. Students will have two (2) of the following options in their schedule, unless they must repeat a Secondary 4 course in a required subject (such as History and/or Science).

----- SCIENCE and TECHNOLOGY OPTIONS -----

Chemistry

Course Fee: To be determined

MELS Code 551584

4 credits – Secondary 5

Prerequisites: Students must have a minimum of 60% in both Science & Technology 404 and Environmental Science & Technology 404, as well as competency in Mathematics 406.

This course is designed for students who have demonstrated ability and motivation in the field of science and mathematics. It is a required prerequisite for students who wish to follow a CEGEP program in Pure and Applied Sciences, Health Sciences or several Technologies.

Physics

Course Fee: To be determined

MELS Code 553504

4 credits – Secondary 5

Prerequisites: Students must have a minimum of 60% in both Science & Technology 404 and Environmental Science & Technology 404, as well as competency in Mathematics 406.

This course is intended for students who plan to study the Pre-University Sciences or some advanced Career Technical programs at CEGEP. Some topics in this course are: Newton's laws, motion, momentum, kinematics and optics.

The Human Body and Forensics

*Course Fee: Approximately \$10.**

MELS Code 535534

4 credits – Secondary 5

Prerequisite: Successful completion of Grade 10 Science and Technology

This course, open to Grade 11 students, would explore various biological sciences related to health and criminology. The course will explore the science behind fingerprint and blood spatter analysis, tool imprint analysis, blood typing and many other techniques used in forensics. This course will also examine the effects of drugs and medications (both lethal and non-lethal) on the human body.

This course is designed to further a student's knowledge of forensics and criminology, both in the classroom setting as well as in the lab. The curriculum is aimed at exploring crime scenes and understanding the science behind them.

----- **PHYSICAL EDUCATION OPTIONS** -----

Advanced Physical Education

MELS Code 546544

Course Fee: To be determined

4 credits – Secondary 5

Prerequisite: Successful completion of Physical Education 412 and/or have the pedagogical coordinator's approval

This course is designed to further a student's knowledge of physical education and fitness, both in the classroom setting as well as in the gymnasium. The curriculum is aimed at developing body awareness as well as increasing one's understanding of sports, as competition and leisure activities.

With a focus on classroom lectures, a student will continue their interest in physical education by learning about first aid, human anatomy, and the history of physical education and competitive sport. Students are also required to participate in school wide sporting events and projects.

To be successful in this course, students must have a mature attitude and a sincere interest in physical education and fitness, as well as overall health and well-being.

Weight Training and Wellness

MELS Code 548544

Course Fee: To be determined

4 credits – Secondary 5

Prerequisite: Successful completion of Phys. Ed 412 & dept. approval

This course is an introduction to fitness and healthy living. Students will analyse, evaluate and incorporate various models of wellbeing in order to informatively adjust their own habits, as well as come to a better understanding of the biomechanics of weight training. The course will also focus on weight training, recovery phases, and nutrition. Classroom, gymnasium and weight room lessons will be applied.

Health and Fitness

MELS Code 546544

Course Fee: To be determined

4 credits – Secondary 5

Prerequisite: Successful completion of Phys. Ed 412 & dept. approval

This course is a **female-centered exploration** into fitness and healthy living. Students will examine, in more depth, their lifestyle and habits, in order to become healthier and more fit. Students of varying degrees of fitness are welcome to take this class. They will develop a fitness plan that will involve Pilates, Step-aerobics, free weights, and Yoga. There will be classroom theory all about the many issues and concerns surrounding female health. Guest speakers and field trips will help the students gain a better understanding of their lifestyle choices and how those choices affect their health and fitness.

----- **ENGLISH, LIFE SKILLS & LANGUAGES OPTIONS** -----

Film Studies "Movies are stories too!"

MELS Code 630564

Course Fee: To be determined

4 credits – Secondary 5

This class is about telling a story through the medium of film. We will examine the history of film-making from its earliest moments to today, paying special attention to the choices directors and editors make to achieve the results we see on the screen.

In this class you will watch, discuss, and analyze several of the greatest stories ever told. Then you will learn to use some of the techniques you have discovered to produce your own music video and short film.

Students who have taken this course in Secondary IV are eligible to select this course again in Secondary V to improve and perfect their portfolio.

Journalism

Course Fee: To be determined

MELS Code 630574

4 credits - Secondary 5

Writing, photography, and editing skills will serve as a base for this course that involves creating our community newspaper, Vision. The course will allow you to cover community stories in Chateauguay and Kahnawake, in addition to highlighting the diverse activities at Billings. You will learn how to find reliable Internet sources and how to write opinion pieces and entertainment reviews, as well as discuss the importance of ethical journalism in a free society.

In a newsroom setting, you will participate in many aspects of newspaper production, such as brainstorming and choosing topics you wish to write about, conducting thorough research, preparing for and conducting interviews, going on photography assignments, and solving problems as part of the newspaper staff. We will invite guest speakers from the local community and those who have experience in the media. A field trip is a possibility if there is adequate interest.

This course will help you to develop skills in writing, editing, public relations, debating, and problem solving. It will also be useful to those considering a career in communications, public affairs, business, and management, among others.

Mythology: Past & Present

Course Fee: To be determined

MELS Code PENDING

4 credits – Secondary 5

This mythology course explores some of the most famous and fascinating tales from the past and looks at how these ancient legends have changed in the present day. We will look at the evolution of the hero from the myth of Hercules to the heroes in present day movies and literature. Students will analyze old myths and create their own through various forms of media.

Home Economics

*Course Fee: Approximately \$60**

MELS Code 620564

4 credits – Secondary 5

The curriculum consists of both practical (hands on) and theory (written) work in Food & Nutrition, Consumer Education, and Textiles & Clothing. **Student who have taken this course in Secondary IV are NOT eligible to select this course again in Secondary V as NO credits would be earned for this course.**

----- **CREATIVE ART OPTIONS** -----

Dance V

*Course Fee: Approximately \$15**

MELS Code 672504

4 credits – Secondary 5

This course is designed to enable the student to appreciate in many different types of dance, perform and teach creative dances and interpret nonverbal movements. The course will also teach the student common dance vocabulary and how to perform some of the more popular social dances.

Drama V

*Course Fee: Approximately \$25**

Prerequisites: Secondary 2, 3, and 4 Drama

MELS Code 670534

4 credits - Secondary 5

This course is designed for students who wish to follow a career in the theatre. Dramatic works (possibly matching with the English and History classes) will be studied, and scenes from these works will be performed for the classes studying that novel, play or History section. Students should have an excellent grasp of the English language. At least two productions will be staged by these students during the year, in which they will handle writing or choosing the play, casting, directing, acting, costumes, sets and public relations. Students will now assume the roles of director, assistant director, stage manager and those of various crew members. They should rotate jobs throughout the year to learn how each position contributes to the end result. They will study theatre history and continue to hone their skills through advanced improvisations, either in creative drama or classical acting. Students will be marked by peer evaluation, self evaluation, quizzes done in class, and term projects. Their productions should be entered into the Quebec Entrepreneurial Contest.

Visual Arts V

*Course Fee: Approximately \$50**

MELS Code 668504

4 credits – Secondary 5

This course is Art making inspired by Art History. Students will experience an exploration of a variety of art materials and art styles. Personal projects could include book-making, photo essays, sculpture, comic strips, animation, painting portraits, work in sketchbook... etc.

Students can develop a portfolio that may be used for applications in Visual Art programs at the CEGEP level. Careers in the Art world will also be discussed. There is the possibility of field trips to visit Montreal Museums. *Students who have taken this course in Secondary IV are eligible to select this course again in Secondary V to improve and perfect their portfolio.*

----- CAREER EXPLORATION OPTIONS -----

Exploration of Vocational Training

Course Fee: To be determined

MELS Code 680524

4 credits – Secondary 5

Exploration of Vocational Training or Explo offers students the opportunity to become familiar with the vocational training sectors and the world of work. Explo is a process that contributes to a students' development of their career identities by having them think about their future, identify their aptitudes, aspirations and keenest interests and consider the *possibility* of themselves as future workers. Students are encouraged to follow their career path whatever it might be.

Students will learn, as a class, in a group, or individually about all the vocational sectors by gathering information from various sources such as the Internet, documentation, workers; participating in experiential activities such as trying out tasks associated with a trade or occupation; observing trades and occupations through job shadowing, and visits to the vocational training centre and more.

Students will use ministerial Web site offering a virtual resource library of specific tools such as experiential tools, virtual visits, key resource people. They will be able to reflect on their suitability for vocational training, either on their own, with classmates, parents or other trusted people and considers the *possibility* of enrolling in vocational training.

With the help of community partners, parents, and the school community working together, students will be involved in meaningful exploration opportunities and have access to resources and information relevant to their communities and needs. They will also be able to contemplate career possibilities in trades and occupations with the knowledge that these opportunities fit with their personal characteristics and aptitudes without yet having to make any final decision.

*** Please note that course fees are subject to change without prior notice.**