



COMMISSION SCOLAIRE SIR-WILFRID-LAURIER  
SIR WILFRID LAURIER SCHOOL BOARD



COMMISSION SCOLAIRE SIR-WILFRID-LAURIER  
SIR WILFRID LAURIER SCHOOL BOARD

ÉCOLE SECONDAIRE RÉGIONALE LAURENTIAN  
LAURENTIAN REGIONAL HIGH SCHOOL

LAURENTIAN REGIONAL HIGH SCHOOL

# PROGRAM GUIDE

## Secondary 3-4-5

Revised February 25, 2026



## TABLE OF CONTENTS

Forward.....	3
General Education.....	4
Academic Promotion Policy.....	5
Work-Oriented Training Program.....	8
English Language Arts.....	10
French as a Second Language.....	12
Mathematics.....	14
Science.....	19
Social Studies.....	20
Culture and Citizenship in Québec.....	21
Physical Education and Health.....	21
Arts Education.....	22
Elective Subjects.....	24

**LAURENTIAN REGIONAL HIGH SCHOOL**  
**448, Avenue Argenteuil**  
**Lachute (Québec) J8H 1W9**  
**450 562-8571**

---



---

### REGISTRATION PERIOD

**New registrations:** Please contact the school to make an appointment with our school secretary during the month of January.

**Re-registration forms** for Sir Wilfrid Laurier students should be completed online during the first week of January.

# FORWARD

The Program Guide for Secondary 3, 4, and 5 is designed to provide students and families with essential information about the compulsory and optional courses offered at our high school. Families are encouraged to review the guide carefully and discuss course selections together in preparation for the upcoming academic year.

Courses should be selected according to each student's needs, interests, and academic profile. For those planning to pursue studies beyond secondary school, it is important to ensure that chosen courses meet the prerequisites for admission to specific programs at CEGEP or other post-secondary institutions. Placement decisions are made by the administration and teachers at the end of the school year, in accordance with the school's promotion policy. Each school's course selection form clearly identifies compulsory and elective courses, as well as the recommended sequence within each subject area. Students are strongly encouraged to consult with their Guidance Counsellor to plan a comprehensive and appropriate secondary school program.

For any additional information, please contact the Guidance Department.

## Guidance Counsellor

Danielle St-Jacques

450 562-8571, ext. 8422

[dstjacques@swlauriersb.qc.ca](mailto:dstjacques@swlauriersb.qc.ca)



## GENERAL EDUCATION

- Credits accumulated in Secondary 1, 2 and 3 are not taken into consideration in granting a Secondary School Diploma although courses taken at these levels may serve as prerequisites for higher level courses.
- Each course title is followed by a three-digit number.
  - For example: English Course (ELA406)
    - The first digit indicates the level (Secondary 4)
    - The last digit denotes the number of credits (6).
- Each course passing mark is 60%.
- Students should take a summer school course if they have failed any of the core courses (English, French or Mathematics) and/or certifiable subjects to fulfill graduation requirements on schedule. (when available)
- The school schedule is based on a 9-day cycle with four periods of 75 minutes each.



## Secondary 3 to 4

Credits Per Course			Condition for promotion
Course	Credits	Periods	
English Language Arts English Language Arts – Media	6	6	<ul style="list-style-type: none"> <li>• The promotion of students is by subject. Students must achieve an average of 60% in subjects.</li> <li>• The final decision for placement remains with the Principal and school team.</li> </ul>
Français Langue Seconde Programme de base ou enrichi	6	6	
Mathematics Regular or enriched program	6	6	
History of Québec and Canada	4	4	
Science and Technology	6	6	
Physical Education and Health	2	2	
Visual Arts, Dance or Music	2	3	
Elective Subject	4	3	
<b>Total Credits/Periods</b>	<b>36</b>	<b>36</b>	

**Please Note:** The [Policy Regarding the Promotion of Students](#) (Policy no 2025-ED-11) will be used to determine student placement for next year. If you have any questions, please contact the school.

# Secondary 4 to 5

# ACADEMIC PROMOTION POLICY

Credits Per Course			Condition for promotion
Course	Credits	Periods	
English Language Arts English Language Arts – Villains	6	6	<ul style="list-style-type: none"> <li>The promotion of students is by subject. Students must achieve an average of 60% in subjects.</li> <li>The final decision for placement remains with the Principal and school team.</li> </ul>
Français Langue Seconde Programme de base	4	5	
Français Langue Seconde Programme enrichi	4	5	
Mathematics: Cultural (+ Study Skills 2 extra credits)	6	6	<b>Graduation Requirements</b> <ul style="list-style-type: none"> <li>A minimum of 54 credits must be earned over Secondary 4 and 5 with 20 credits being earned specifically in Secondary 5.</li> </ul>
Mathematics: Science Option	6	6	<b>The following courses are also required for graduation.</b> <ul style="list-style-type: none"> <li>Secondary 4 Mathematics</li> <li>Secondary 4 Science</li> <li>Secondary 4 History of Québec and Canada</li> <li>Secondary 4 Art, Dance or Music</li> <li>Secondary 5 English Language Arts</li> <li>Secondary 5 French as a Second Language</li> <li>Secondary 5 CCQ or Phys. Ed.</li> </ul>
History of Québec and Canada	4	4	
Science and Technology	4	4	
Physical Education and Health	2	2	
Culture and Citizenship in Quebec (CCQ)	4	3	
Visual Arts, Dance or Music	2	2	
Elective Subject	4	4	
<b>Total Credits/Periods</b>	<b>36-38</b>	<b>36</b>	

**Please Note:** The Policy Regarding the Promotion of Students (Policy no 2025-ED-11) will be used to determine student placement for next year. If you have any questions, please contact the school.

## Secondary 5

## ACADEMIC PROMOTION POLICY

Credits Per Course			Condition for promotion
Course	Credits	Periods	
English Language Arts	6	6	<ul style="list-style-type: none"> <li>Students must have a minimum overall average of 60%</li> </ul>
English Language Arts Fact and Fiction	8	6	
Français Langue Seconde Programme de base	4	6	
Français Langue Seconde Programme enrichi	6	6	<b>Graduation Requirements</b>
Mathematics: Cultural (+ Study Skills 2 extra credits)	6	6	<ul style="list-style-type: none"> <li>A minimum of 54 credits must be earned over Secondary 4 and 5 with 20 credits being earned specifically in Secondary 5.</li> </ul>
Mathematics: Science Option	6	6	<b>The following courses are also required for graduation.</b>
Contemporary World	2	2	<ul style="list-style-type: none"> <li>Secondary 4 Mathematics</li> <li>Secondary 4 Science</li> <li>Secondary 4 History of Québec and Canada</li> <li>Secondary 4 Art, Dance or Music</li> <li>Secondary 5 English Language Arts</li> <li>Secondary 5 French as a Second Language</li> <li>Secondary 5 CCQ or Phys. Ed.</li> </ul>
Financial Education	2	2	
Physical Education and Health	2	2	
Culture and Citizenship in Québec (CCQ)	2	2	
Visual Arts, Dance or Music	2	2	
Elective Subject Two options – 4 credits each	8	8	
<b>Total Credits/Periods</b>	<b>34-36</b>	<b>36</b>	

**Please Note:** The Policy Regarding the Promotion of Students (Policy no 2025-ED-11) will be used to determine student placement for next year. If you have any questions, please contact the school.

The Work Oriented Training program gives students the opportunity to obtain practical training in the workplace while pursuing general education adapted to their needs. The Pre-Work Training Path is a three-year program that helps students progress at their own pace in a variety of subjects while preparing them to carry out their roles as adults, citizens and workers. Students must be least 15 years of age as of September 30 and not have met the requirements of the elementary level programs for English and Mathematics.

## WORK-ORIENTED TRAINING PROGRAM

### Pre-Work Training Path

Year 1 (50 hours)		Year 2 (50 hours)		Year 3 (50 hours)	
<b>General Education (Unapportioned time)</b>					
Compulsory Subjects	Hours	Compulsory Subjects	Hours	Compulsory Subjects	Hours
English Language Arts - 630130	150	English Language Arts - 630230	100	English Language Arts - 630234	50
French as a Second Language - 635130	50	French as a Second Language - 635234	50	French as a Second Language - 635234	25
Mathematics - 567130	150	Mathematics - 567230	100	Mathematics - 567234	50
Technological and Scientific Experimentation 559134	100				
Geography, History and Citizenship Education 593130	50	Geography, History and Citizenship Education 593230	50	Geography, History and Citizenship Education 593234	50
Physical Education and Health - 545130	50	Physical Education and Health - 545234	50	Physical Education and Health - 543302	25
Autonomy and Social Participation - 603130	100	Autonomy and Social Participation - 603230	100	Autonomy and Social Participation - 603234	50
<b>Practical Training</b>					
Compulsory Subjects	Hours	Compulsory Subjects	Hours	Compulsory Subjects	Hours
Preparation for the Job Market - 609130	50	Preparation for the Job Market - 609230	100	Preparation for the Job Market - 609233	50
Introduction to the World of Work - 609134	150	Work Skills - 608230	300	Work Skills - 608234	300
Legend: Compulsory Subjects: Course name and subjects Hours: Prescribed time – Total number of hours					

## Leading to a Semi-Skilled Trade

Students enrolled in this program can, subject to certain conditions, continue their studies in Vocational Training or in one of the two General Education Paths. Training for a semi-skilled trade is a one-year program in which students will complete the requirements of Secondary Cycle One programs in English, French and Mathematics. The work stage component will include 375 hours in the workplace. Students receive a training certificate for a semi-skilled trade upon completion.

Students must be at least 15 years of age as of September 30 and must not have earned Secondary Cycle One credits in English and Mathematics.

General Education	
Compulsory Subjects	Hours
French as a Second Language - 634106	200
English Language Arts - 632106	100
Mathematics - 563126	150
Practical Training	
Compulsory Subjects	Hours
Preparation for the Job Market - 699233	75
Preparation for a Semi-Skilled Trade - 696204	375
Legend: Compulsory Subjects: Course name and subjects Hours: Prescribed time – Total number of hours	

## Secondary 3 - English Language Arts - Regular

### ELA306 – 632306

The objective of this program is to help students effectively use language in formulating their ideas, and to participate in the communication process.

At Secondary 3, the program continues to develop the student's skills in the three competencies:

- Uses language to communicate and to learn.
- Reads and listens to texts; and
- Produces spoken, written and media texts.

To achieve these aims, students read or view novels, plays, short stories, poems, articles, films, and documentaries; talk in group and class discussions; write or create texts that may include short stories, journals, plays, essays, letters, responses, and multi-media texts.

## Secondary 3 - English Language Arts - Media Studies

### ELA3U6 – 632306

The objective of this course is to integrate media studies into all the requirements of the Secondary 3 English Language Arts course. Students complete the full range of reading, writing, and oral assignments necessary to earn their Language Arts credits, while approaching the curriculum through a media-focused lens.

For example, when studying the three types of articles introduced at this level, students may create their own newspaper or magazine. When exploring persuasive texts, they might develop an original advertising campaign for a well-known brand such as Tim Hortons.

By combining traditional Language Arts objectives with creative media projects, the course fosters critical thinking, communication skills, and real-world application

This course is available to any Secondary 3 student that has an interest in a variety of media formats and wishes to explore real world applications for the lessons being covered. There are a limited number of spaces available as there is only one group offered per year.

## Secondary 4 - English Language Arts - Regular

### ELA406 – 632406

The objective of this program is to continue the development of the student's use and appreciation of language and to develop and improve the competencies:

- Uses language to communicate and to learn.
- Reads and listens to texts; and
- Produces spoken, written and media texts.

## Secondary 4 - English Language Arts - Monsters-Villains

### ELA4M6 – 632406

The concept of the “monster” invites multiple interpretations, and this course explores its many dimensions through both classic and contemporary short stories and novels. From traditional literature to modern media, stories of monsters, madness, and the supernatural have captivated audiences for generations. Uncanny settings, eerie atmospheres, and unexpected endings often create the most memorable texts, and provide powerful inspiration for strong, imaginative writing.

Designed for Secondary 4 students, this course develops skills across the five strands of communication: speaking, listening, viewing, reading, and writing. Through the theme of monsters and villains, drawn from both fiction and real-life accounts, students examine how fear, otherness, and moral conflict are represented in literature and media. After all, “there be monsters everywhere,” and they offer rich and compelling ground for exploration in English Language Arts.

## Secondary 5 - English Language Arts - Regular

### ELA536 – 612536

The objective of this program is to continue to encourage the student's realization and appreciation of the value of language in formulating ideas, and in effective communication. In addition, emphasis is placed on preparation for the final English Language Arts MEQ exam. Passing this course is a requirement for graduation.

The program continues to improve the student's competencies:

- Uses language to communicate and to learn.
- Reads and listens to texts; and
- Produces spoken, written and media texts.

## Secondary 5 - English Language Arts - Fact and Fiction

### ELA5E6 – 612536 + 586552

Fact and Fiction aims to introduce students to the conflicts and literature of the 20th Century and to explore how both have shaped the world of today. This is an enriched upper-level course that replaces regular Secondary 5 English for those students who qualify. The regular six periods of English are split into four English and two World History classes. Students in Fact and Fiction work to improve the competencies required in regular Secondary 5 ELA and are required to write their MEQ Secondary 5 English Language Arts exam at the end of the year.

In the program, the 20th Century will be viewed from the historical perspective in terms of factual events, as well as from the fictional literature those same events fostered. Students in this course will be called upon to complete a variety of tasks including crafting and presenting the annual Remembrance Day Ceremony, interviewing veterans of Canada's wars, documenting research trips to the Canadian War Museum, the Canadian National Archives, the National Aviation Museum and the Diefenbunker.

This course aims to prepare students for the demands of CEGEP and first year university. To qualify for this course, students must check this course off on their option sheet and fill out an application. Application forms can be picked up from Ms. Robin Vero in the English department.

## Secondary 3 - French as a Second Language - Regular

### FSL306 – 634306

This is a compulsory course for Secondary 3 students who have succeeded in French as a Second Language 206.

Class activities will allow students to pursue the three areas of competencies as described by the Ministère de l'Éducation du Québec (MEQ). (Interact orally in French, read and understand a variety of texts, produce a variety of written texts).

Five different themes allow for the study of different elements of grammar, reading comprehension, written expression and oral production. Evaluation will be held on all three competencies through a regular reporting session. A summative evaluation will take place at the end of the year.

## Secondary 3 - French as a Second Language - Enriched

### FSL3E6 – 635306

This course is offered to Secondary 3 students who have successfully completed the Secondary 2 enriched program and who have maintained a high standard of achievement.

Class activities will allow students to pursue the three areas of competencies as described by the Ministère de l'Éducation du Québec (MEQ). (Interact orally in French, read and understand a variety of texts, produce a variety of written texts).

Reading plays an important role in the program and will be reinforced through a variety of novels, articles and texts.

Five different themes allow for the study of different elements of grammar, reading comprehension, written expression and oral production. Evaluation will be held on all three competencies through regular reporting session. A summative evaluation will take place at the end of the year and will be taken into consideration for the placement of the student for the following year.

## Secondary 4 - French as a Second Language - Regular

### FSL404 – 634404

This course is compulsory for Secondary 4 students who have successfully completed French as a Second Language 306.

Class activities will allow students to pursue the three areas of competencies as described by the Ministère de l'Éducation du Québec (MEQ). (Interact orally in French, read and understand a variety of texts, produce a variety of written texts).

The objectives are to improve the student's oral and written expression and comprehension through a variety of activities, related to five different themes. Regular reading is an important component of this course (a minimum of 2 novels)

## Secondary 4 - French as a Second Language - Enriched

### FSL4E6 – 635406

This course is designed for students who have demonstrated superior ability in French. The program is limited to students who have been recommended by their Secondary 3 teacher. Final acceptance of the student into the program remains at the discretion of the Laurentian Regional High School French Department.

Class activities will allow students to pursue the three areas of competencies as described by the Ministère de l'Éducation du Québec (MEQ). (Interact orally in French, read and understand a variety of texts, produce a variety of written texts).

The objective of this course is to improve students reading and writing skills while developing their knowledge of French culture and values through literature, magazines, current events and entertainers. Regular reading is expected; grammar components and structures are reviewed and practiced in oral and written productions.

## **Secondary 5 - French as a Second Language - Regular**

### **FSL504 – 634504**

This course is compulsory for Secondary 5 students who have successfully completed French 404. The objectives of this course are to build and improve oral and written skills and comprehension through a variety of situations and topics which relate to the senior high school students' particular interests.

Class activities will allow students to pursue the three areas of competencies as described by the Ministère de l'Éducation du Québec (MEQ). (Interact orally in French, read and understand a variety of texts, produce a variety of written texts). The final evaluation of the year is based on the three terms (50%) and the Ministry exam (50%). Passing Secondary 5 French is a requirement for graduation.

## **Secondary 5 - French as a Second Language - Enriched**

### **FSL5E6 – 635506**

This course is designed for students who have already completed the French as a Second Language – Enriched 406 course. It is a course which focuses on Literature from Québec. Students will review all the grammar components covered over the previous years. The final evaluation of the year is based on the three terms (50%) and the Ministry exam (50%). Passing Secondary 5 French is a requirement for graduation.

## Mathematics Department Promotional Guidelines

- A student must have an overall average of 60% or more to be promoted from one level to the next in Regular Math.
- Promotion from Regular Math to Enriched Math will be done only if there is a recommendation from the Math Department. This recommendation will be made based primarily on the work ethic and motivation of the student, and on the students' results.
- Students in Enriched Math must maintain a strong average and a consistent work ethic.
- Students who do not wish to stay in Enriched Math or whose results are less than specified (but more than 60%) will be promoted to regular Math in June.
- Students in regular Math in Secondary 3 will be enrolled in Cultural Secondary 4 Math.
- Students in regular Math in Secondary 3 require a final average of 85% to be able to register in Scientific Math in Secondary 4.
- Students in Enriched Math in Secondary 3 have the choice between Cultural Math, and Scientific Math in Secondary 4.
- Students with an overall average of 60% or more in Cultural Secondary 4 Math will be promoted to Cultural Secondary 5 Math.
- Scientific Math Secondary 4 is a prerequisite to Scientific Math Secondary 5.
- Cultural Math or Scientific Math is a required class for graduation.

## Secondary 3 - Mathematics - Regular

**MAT306 – 563326**

<b>Geometric figures</b>	<ul style="list-style-type: none"> <li>• Transformational geometry and isometry.</li> <li>• Three dimensional figures:               <ul style="list-style-type: none"> <li>~ Spatial relationships</li> <li>~ Volume</li> <li>~ Surface area</li> <li>~ Problem-solving</li> </ul> </li> </ul>
<b>Algebra</b>	<ul style="list-style-type: none"> <li>• First degree equations</li> <li>• Table of values</li> <li>• Graphs</li> <li>• Integers</li> <li>• Mathematizing</li> <li>• Word problems</li> <li>• Direct and partial variation</li> <li>• Exponents</li> <li>• Operations with polynomials</li> <li>• Pythagorean theorem</li> <li>• Square root</li> <li>• Irrational numbers</li> <li>• Problem-solving</li> </ul>
<b>Statistics</b>	<ul style="list-style-type: none"> <li>• Tabulation of data</li> <li>• Histograms</li> <li>• Mean median mode</li> <li>• Range of distribution</li> <li>• Problem-solving</li> </ul>

## Secondary 3 - Mathematics - Enriched

**MAT3E6 – 563326**

This enriched program covers the regular Mathematics 306 curriculum while extending learning through additional and more advanced topics. All units are studied in greater depth, with particular emphasis on Algebra, including factoring, absolute value, quadratic functions, fractional equations, and more.

Students should expect a heavier workload and must be prepared to complete projects and assignments independently outside of class time.

Successful completion of Secondary 4 Cultural Mathematics or Secondary 4 Scientific Mathematics is required for graduation.

## Secondary 4 - Mathematics - Cultural

MAT4C4-563414

<p><b>Arithmetic and Algebra</b></p>	<ul style="list-style-type: none"> <li>• First inequality in two variables</li> <li>• Real function: polynomial of degree less than 3</li> <li>• Exponential</li> <li>• Periodic</li> <li>• Step</li> <li>• Piecewise</li> <li>• System of first-degree equations in two variables</li> </ul>
<p><b>Statistics and Probability</b></p>	<ul style="list-style-type: none"> <li>• Measure of position ~ Percentile</li> <li>• Measure of dispersion ~ Mean deviation</li> <li>• Linear correlation ~ Correlation coefficient ~ Regression line</li> </ul>
<p><b>Geometry and Graphs</b></p>	<ul style="list-style-type: none"> <li>• Distance</li> <li>• Slope</li> <li>• Point of division</li> <li>• Straight line and half-plane ~ Parallel line ~ Perpendicular lines ~ Relationships in triangles ~ Sine ~ Cosine ~ Tangent ~ Sine law ~ Hero's formula</li> </ul>

## Secondary 4 - Mathematics - Scientific

**MAT4S6 – 565426**

This course is a prerequisite for many health, science, and technical programs in CEGEP.

<b>Algebraic Expressions</b>	<ul style="list-style-type: none"> <li>• Polynomials</li> <li>• Identities</li> <li>• Polynomial division</li> <li>• Factoring</li> <li>• Rational expressions</li> <li>• Second degree equations</li> <li>• Inequalities</li> </ul>
<b>Functions</b>	<ul style="list-style-type: none"> <li>• Properties</li> <li>• Parameters</li> <li>• Polynomial functions</li> <li>• Constant functions</li> <li>• Linear functions</li> <li>• Quadratic functions               <ul style="list-style-type: none"> <li>~ Standard, General and Factored forms</li> </ul> </li> <li>• Step function</li> </ul>
<b>Analytic Geometry</b>	<ul style="list-style-type: none"> <li>• Distance between two points</li> <li>• Mid-point</li> <li>• Straight lines               <ul style="list-style-type: none"> <li>~ Slope</li> <li>~ Intercept</li> <li>~ Standard form</li> <li>~ General form</li> <li>~ Symmetric form</li> <li>~ Equations</li> </ul> </li> <li>• Distance from point to line</li> <li>• Regions</li> </ul>
<b>Systems of Equations</b>	<ul style="list-style-type: none"> <li>• Systems of first-degree equations</li> <li>• Systems with one linear</li> <li>• Systems with one quadratic</li> </ul>
<b>Triangles</b>	<ul style="list-style-type: none"> <li>• Angles</li> <li>• Congruent</li> <li>• Similar triangles</li> <li>• Right triangles</li> <li>• Metric and trigonometric relations in triangles               <ul style="list-style-type: none"> <li>~ Sine, Cosine and Tangent</li> <li>~ Sine and cosine laws</li> </ul> </li> </ul>
<b>Equivalent figures</b>	<ul style="list-style-type: none"> <li>• Area and volume of solids</li> <li>• Equivalent plane figures</li> <li>• Equivalent solids</li> <li>• Comparing polygons</li> <li>• Comparing solids</li> </ul>
<b>Statistics</b>	<ul style="list-style-type: none"> <li>• Linear correlation               <ul style="list-style-type: none"> <li>~ Correlation coefficient</li> <li>~ Regression line</li> </ul> </li> </ul>

Students should expect a greater workload and must be able to complete projects or assignments outside of class independently.

## Secondary 5 - Mathematics - Cultural MAT5C4 – 563504

Some CEGEP programs require MAT5C4 as a prerequisite.

<b>Optimization</b>	<ul style="list-style-type: none"> <li>• First-degree equalities in two variables</li> <li>• First degree inequalities in two variables</li> <li>• System of first-degree inequalities in two variables</li> <li>• System of first-degree equalities in two variables</li> <li>• Polygon of constraints</li> <li>• Function to be optimized (objective function)</li> <li>• Optimization</li> </ul>
<b>Graph Theory</b>	<ul style="list-style-type: none"> <li>• Graphs</li> <li>• Chains</li> <li>• Various Graphs</li> <li>• Optimization Problems</li> </ul>
<b>Financial Math</b>	<ul style="list-style-type: none"> <li>• Calculating interest and depreciation</li> <li>• Simple and compound interests</li> <li>• logs</li> </ul>
<b>Equivalent figures</b>	<ul style="list-style-type: none"> <li>• Area and volume of solids</li> <li>• Equivalent Plane Figures</li> <li>• Equivalent Solids</li> <li>• Comparing Polygons</li> <li>• Comparing Solids</li> <li>• Cosine law</li> </ul>
<b>Probabilities</b>	<ul style="list-style-type: none"> <li>• Events</li> <li>• Outcomes</li> <li>• Conditional Probability</li> <li>• Expected values/fair game and odds</li> </ul>

## Secondary 5 - Mathematics - Scientific MAT5S6-565506

This course is a prerequisite for many health, science, commerce and technical programs in CEGEP.

<p><b>Arithmetic and algebraic expressions</b></p>	<ul style="list-style-type: none"> <li>• Real numbers:             <ul style="list-style-type: none"> <li>~ Absolute value</li> <li>~ Radicals</li> <li>~ Exponents</li> <li>~ Square root</li> <li>~ Factoring</li> </ul> </li> </ul>
<p><b>Relations Functions Polynomial functions Real functions and inverse</b></p>	<ul style="list-style-type: none"> <li>• Real functions:             <ul style="list-style-type: none"> <li>~ Second-degree polynomial (general form)</li> <li>~ Step</li> <li>~ Absolute value</li> <li>~ Square root</li> <li>~ Rational</li> <li>~ Piecewise</li> </ul> </li> <li>• Parameters</li> <li>• Operations on functions</li> </ul>
<p><b>Optimization</b></p>	<ul style="list-style-type: none"> <li>• System of first-degree inequalities in two variables</li> <li>• System of equations and inequalities involving various functional models</li> <li>• Polygon of Constraints</li> <li>• Optimal Solution</li> </ul>
<p><b>Exponential and Logarithmic Functions</b></p>	
<p><b>Trigonometry</b></p>	<ul style="list-style-type: none"> <li>• Metric relations in circles and trigonometric relations in triangles: sine and cosine laws</li> <li>• Standard unit circle (Radian, arc length)</li> <li>• Trigonometric Identities</li> <li>• Inverse</li> </ul>
<p><b>Conic Sections</b></p>	<ul style="list-style-type: none"> <li>• Geometric locus             <ul style="list-style-type: none"> <li>~ Circle</li> <li>~ Ellipse</li> <li>~ Hyperbola</li> <li>~ Parabola</li> </ul> </li> </ul>

Students should expect a greater workload and must be able to complete projects or assignments outside of class independently.

## Secondary 3 - Science and Technology

### SCT306-555306

The emphasis is on Earth and Space, Human Biology, Evolution of Life, Properties of Matter, and Technology. This course is a more traditional program consisting of an emphasis on classroom and laboratory work.

## Secondary 4 - Science and Technology

### SCT444-555444

The emphasis is on Introductory Chemistry, Ecology and the Environment, Properties of Matter, and Technology. This course is a more traditional program consisting of an emphasis on classroom and laboratory work. Passing this course is a requirement for graduation.



## Secondary 3 - History of Québec and Canada

### HQC304 – 585304

**Course Objectives:** The Secondary 3 History of Québec and Canada course provides an in depth study of the history of Québec and Canada from its origins to 1840.

The course is divided into four sections:

1. Origins to 1608
2. The Evolution of Colonial Society under French Rule (1608-1760)
3. The Conquest and Change of Empire (1760-1791)
4. The demands and struggles of Nationhood (1791-1840)

Through lectures, note taking, project work, tests and essays the students will develop the following competencies:

- The ability to characterize a period in the history of Quebec and Canada.
- The ability to interpret a social phenomenon.

## Secondary 4 - History of Québec and Canada

### HQC404 – 585404

**Course Objectives:** This course is required for graduation.

The Secondary 4 History of Québec and Canada course provides an in-depth study of Québec and Canada from 1840 to the present.

The course is divided into four sections:

1. 1840 – 1896 The formation of the Canadian federal system.
2. 1896 – 1945 Nationalisms and the autonomy of Canada.
3. 1945 – 1980 The modernization of Québec and the Quiet Revolution.
4. 1980 – Now - Societal choices in Contemporary Quebec

Through lectures, note taking, project work, tests and essays the students will develop the following competencies:

- The ability to characterize a period in the history of Québec and Canada.
- The ability to interpret a social phenomenon.

## Secondary 5 - Contemporary World

### CW0502-592502

The Contemporary World program aims to:

- Help students grasp the complexity of the world today and to be open to the diversity of the societies that make it up.
- Help students develop their critical faculties by studying the problems and issues of the contemporary world.
- Prepare students to participate as responsible citizens in social debates.

In this program, students consolidate previous learning regarding a research process and continue to develop concepts that foster critical judgment. The students will examine regional, national, and global concepts using various aspects of Social Studies in History, Geography, Politics and Economics as well as the influence of media both on their vision of the world and on societies.

## Secondary 5 - Financial Education

### FIN522 – 602522

Financial Education is a two-credit course designed to equip Secondary 5 students with the knowledge and skills needed to manage their personal finances effectively. The course explores financial situations students are already experiencing or are likely to encounter in the near future.

The program examines three key financial issues: consuming goods and services, entering the workforce, and pursuing further education. Each topic presents a range of options that require students to analyze information critically, make informed decisions, evaluate opportunity costs, and consider relevant legislation.

The course is centered on the development of a primary competency: taking a well-reasoned position on a financial issue.

# CULTURE AND CITIZENSHIP IN QUÉBEC

## Secondary 4 and 5 - Culture and Citizenship in Québec (CCQ)

### CCQ402-580402 - CCQ502-580502

The Culture and Citizenship in Québec (CCQ) course is intended to meet three objective using sociological perspectives, research, bias, judgement and reasoning with an angle of ethics:

- Prepare students to exercise citizenship in Québec society
- Help students learn to respect themselves and others
- Pursue the common good

The course also includes content related to sexuality education and is integrated into related themes and concepts within the course.

This course addresses two competencies:

1. Studies a cultural reality, and
2. Reflects on an ethical question.

There are four themes in Secondary 4:

1. Relationships and Caring,
2. Justice and the Law,
3. Culture and Symbolic Productions,
4. Technology and Future Challenges.

There are two themes in Secondary 5:

1. Search for Meaning and World views, and
2. Social Groups and Power Relations.

# PHYSICAL EDUCATION AND HEALTH

## Secondary 3, 4 and 5 - Physical Education and Health

### PEH302 – 543302, PEH402 – 543402 and PEH502-543502

Students will be expected to participate in a variety of physical education activities which will help them to develop skills in order to function in a personal and social context for the rest of their lives.

The course will focus on several sports, be they team or individual, but not limited to:

- Soccer
- Flag football
- Basketball
- Volleyball
- Badminton
- Softball
- Swimming

Students will be evaluated on their participation, effort attitude and athletic ability. Everyone is expected to have a change of clothes for physical education class for ease of participation and reasons of hygiene. Proper gym attire is mandatory: shorts, sweatpants or track pants, t-shirt and running shoes. During swimming classes: an appropriate bathing suit, towel and bathing cap (required).

**Passing Secondary 5 CCQ or Physical Education is required to graduate.**

## Secondary 3, 4 and 5 - Visual Arts

ART302-668302, ART402-688402 and ART502-668502

The overall objective is to enable students to have aesthetic experiences through the "making" and "seeing" of images. The program evolves through four modules:

<b>Theme</b>	Students find personal ways to express themselves through perceiving, comparing, describing and representation.
<b>Visual Language</b>	Students develop a conceptual knowledge of the visual vocabulary they are called upon to use and look for in images.
<b>Gesture and Technique</b>	Students have become familiar with certain tools, media, and processes.
<b>Art and Society</b>	To enrich their understanding of themselves and their world, students are introduced to some aspects of the world, cultures, and daily life through their creative eyes.
<b>Evaluation</b>	Students are expected to complete all the assigned projects. If more time is needed, the art class is open during lunchtime. Sketchbook work can be done in class or at home. During the year, students will be evaluated using a variety of projects. These projects will enable students to demonstrate their competency in creating images as well as being able to appreciate works of art, in accordance with the requirements of the Québec Education Program.

## Secondary 3 - Dance

DAN302-672302

The Secondary 3 Dance course encourages students to explore the dance of various peoples around the world in a meaningful way and enables students to express themselves through a nonverbal means of communication while increasing their dancing abilities. The students will work as a whole on class choreography, and also in smaller groups to produce choreographies that reflect a specific genre previously introduced in class. This course is open to all students.

**Note:** All students and their parents must sign the Dance Class Expectations form.

## Secondary 4 and 5 – Dance

DAN402-672402 and DAN502-672502

The senior levels of the Dance course will focus on developing techniques and the students own personal styles, and more emphasis will be placed on choreographic work, both in groups and individually. Students at this level will be expected to perform class and/or their own personal work in a public performance.

**Note:** All students and their parents must sign the Dance Class Expectations form.

**Secondary 4 students must pass one Arts Education option in order to graduate. (Music, Visual Arts or Dance)**

## Secondary 3 - Music

### MUS302-669302

This course offers students an opportunity to study and perform music from the idiom of rock and roll. It is designed to prepare students for the Music courses in Secondary 4 and 5.

No prior playing experience is necessary. If you have already begun to play, or are interested in learning to play guitar, bass, drums, percussion, keyboards, or be a vocalist, this course will interest you.

There is no prerequisite or audition for this course. The student must be interested in learning to sing, play an instrument, and play music of their choosing.

**Objective:** While working with the teacher, students will learn the basic skills required to become proficient on their chosen instrument. The student will explore various playing techniques while learning to play repertoire that is best suited for their playing abilities. The goal is to prepare students for the Secondary 4 Music course.

**Evaluation:** The majority of the students' mark will be based on learning their chosen instrument. Students will be required to attain specific competencies.

## Secondary 4 and 5 – Music

### MUS402-669402 and MUS502-669502

This course offers students an opportunity to study and perform music from the idiom of rock and roll. It is designed to be a continuation of the Secondary 3 Music program. Because this course is offered 2 days out of 9, it is strongly recommended that students have some prior playing or singing experience.

**Objective:** While working closely with the teacher, the students will improve their skills in their respective instruments or their vocal abilities. The student will explore various playing techniques while learning to play a repertoire that is best suited for their playing abilities.

**Evaluation:** There are playing tests at the end of each term. A minimum of two songs must be presented and the teacher will evaluate the performance, knowledge of the song (chords, lyrics etc.), as well as the student's progress.

**Secondary 4 students must pass one Arts Education option in order to graduate. (Music, Visual Arts or Dance)**

# ELECTIVE SUBJECTS

## Secondary 4 and 5 - Cinema

**CIN484-670484 and CIN584 - 670584**

This course is offered to students in Secondary 4 and 5. Students will receive four credits at the appropriate level upon successful completion of the course.

Students will be offered a comprehensive social history of the movies. The course examines the content and form of films, the techniques of expression, the modes of transaction with audiences, and the ways these elements carry social implications. It explores the act of filmmaking and its connections to social, cultural, and political issues in society.

The course begins at the turn of the 20th century and covers a wide variety of films from Hollywood and around the world. Different genres, including new wave cinema, independent films, cinematic heroes, and propaganda films are explored, along with film criticism and analysis, production design, musical scores, major trends, directors, actors, and public responses.

**Evaluation:** Through written reviews, lectures, class discussions, presentations, projects, potential field trips and short essays the students will become better writers, develop analytical skills and critical thinking useful in all areas of study. This course is suited to students who love cinema but who also want to understand how and why cinema affects us as strongly as it does, influencing us individually and as a society.

## Secondary 4 and 5 - Media

**MED444-612444 and MED514-612514**

With the rise of the film making industry in the Montreal area, LRHS has created a course designed to give young film makers the basic skills and understanding needed in today's film world. Over the course of a year, students will go from concept to complete film and will touch on major components such as:

- Idea Genesis
- Scriptwriting
- Storyboarding
- Production and the role of the producer
- Set design
- Costumes
- Lighting and sound
- Staging and shot blocking
- Directing and working with actors
- Editing
- Post production

## French Option

**FSL444**

Because Secondary 5 French is a graduation requirement and students are promoted by subject, this option class will be automatically assigned to any Secondary 4 student who has not yet earned the credits for Secondary 3 French. This ensures that students receive the maximum possible instructional time in French, strengthening their skills and increasing their exposure to the language. In addition, Secondary 4 students who already have their Secondary 3 French credits but wish to further solidify their foundation before entering Secondary 5 may also choose this option.

## Spanish Option

This is an optional course taken at the Secondary 4 and 5. Students will receive four credits at the appropriate level upon successful completion of the course. Students choosing this option must be a passing both French and English.

## Dance Option

This optional course is open to Secondary 3, 4, and 5 students. Upon successful completion, students earn four credits at the appropriate level. Step into the studio to move, create, and take the stage. This course strengthens technique, creativity, and artistic expression through a range of styles, including contemporary, ballet, jazz, urban, and social dance. Throughout the year, students choreograph and rehearse original routines in preparation for the annual May dance showcase. Guest artists are invited to share new techniques and inspire fresh perspectives.

Dynamic and engaging, this course fosters self-confidence, collaboration, discipline, and above all, the joy of dance.

## Secondary 3 - Introduction to Robotics

### ROB354 - 562354

This course is an introduction to coding and robotics that is taught through a series of projects and is very “hands on”. This is a challenging course that requires:

- Significant work, patience and a positive attitude to learning.
- Strong ability to learn independently
- Good manual skills
- Enjoy working in a team
- Strong interest in science and engineering.

In the first half of the course, students will use the SCRATCH block programming platform to create and code an animated short and an original video game. Acquired coding skills are then used to program a SPHERO robot and to fly a DRONE.

In the second half of the course, students will learn the basics of electrical circuits and electronics. They will code the BBC MICRO:BIT and use it to control a robotic arm, and a robotic car that they have designed and built in a small team.

## Secondary 4 - Environmental Science and Technology

### EST404 – 558404

The Environmental Science and Technology course is a course that integrates biology, chemistry, and physics to solve complex problems related to the material, living, and technological worlds. It is a prerequisite for Physics and Chemistry course in Secondary 5. This course is only available to students who have at least 80% in Secondary 3 science, and students must be enrolled in Secondary 4 Scientific Math. In cases where a student's placement is not straightforward, teacher discretion will be used to determine the most appropriate option.

## Secondary 5 - Chemistry

### CHE504 – 551504

Secondary 5 Chemistry explores the behavior of matter through advanced topics such as gas laws, reaction rates (kinetics), chemical equilibrium, and stoichiometry. This course is a requirement for students who wish to take science courses in CEGEP. This course has strict prerequisites: Students must have attained at least 80% in Environmental Science and Technology (EST404). In addition, students must be enrolled in Secondary 5 Mathematics Science option. In cases where a student's placement is not straightforward, teacher discretion will be used to determine the most appropriate option.

## Secondary 5 - Physics

### PHY504 – 553504

Secondary 5 Physics focuses on mathematically modeling the physical universe, specifically covering geometric optics, kinematics, forces, and energy transformation. This course is a requirement for students who wish to take science courses in CEGEP. This course has strict prerequisites: Students must have attained at least 80% in Environmental Science and Technology (EST404). In addition, students must be enrolled in Secondary 5 Scientific Mathematics. In cases where a student's placement is not straightforward, teacher discretion will be used to determine the most appropriate option.

## Secondary 5 - Home Economics - Strategies for Independent Living

### HEC564 – 620564

This optional course is offered to students in Secondary 5. Upon successful completion, students earn four Secondary 5 credits. The course has 2 modules.

1. **Foods and Nutrition** explores a variety of food choices based on the management of our basic resources of time, cost, nutritional value, skills etc. In small groups, students share many cooking experiences with user-friendly recipes that promote a healthy lifestyle.
2. **Independent Living** provides students with the opportunity to explore and practice practical strategies that support a successful transition from living at home to independent life at the post-secondary level. Topics include choosing a roommate, setting priorities, understanding tenants' rights and responsibilities, budgeting and personal finance, strengthening communication and decision-making skills, personal and household safety, and becoming a knowledgeable, confident consumer.

As well, some topics for the Independent Living module have been based upon "The Seven Habits of Highly Successful Teens". This book explains the skills and choices made by successful individuals which have been summarized and then adapted by Sean Covey.

The theme that binds these modules emphasizes learning and practicing specific strategies or behaviors for becoming a better all-around person and elevating individual skills. These are tools that can engineer and guide our lives on the road to success and happiness.

## Life Skills Education

### LIF314 – 615344

Life Skills Education teaches students about nutrition, wellness, and adopting a healthy lifestyle by making healthy food choices. Students will learn about nutrients and what is needed to create a balanced diet by looking at the four food groups and Canada Food Guide recommendations.

The course also focuses on basic kitchen skills, like reading and following a recipe, planning a menu, and using a variety of kitchen tools and equipment. Grocery shopping techniques are learned as well, with an emphasis on choosing the right fresh foods, price comparisons and learning to read a label. Students will get practical, hands on experience in the kitchen with some basic baking recipes as well as preparing a complete meal.

## Secondary 3, 4 and 5 - Physical Education Option

**PED344 – 546344, PED444 – 546444 and PED544 – 546544**

The Physical Education department is offering an option course to complement the existing Physical Education curriculum. This option is offered to students in Secondary 3, 4 and 5. Students will receive credits at the appropriate level upon successful completion of the course. The focus of the course will be on creating awareness of our own personal fitness and health, improving skills in individual and team sports and creating a positive overall athletic experience, with an emphasis on teamwork and good sportsmanship.

## Multi-Sport Development Concentration

- **Goal:** To provide targeted, high-level support for students dedicated to the most popular competitive sports within our school.
- **Key Benefits:** This concentration course will optimize athletic performance by dedicating time to sport-specific skills, conditioning, and strategic development. It is an essential investment in supporting our school's athletic programs and helping student-athletes reach their full potential.
- This program directly addresses the need for specialized training enhancing the competitiveness and success of our school teams.
- Students will practice volleyball, flag football and basketball.
- Students must have attained at least 80% in their previous regular physical education course.

## Secondary 3 - Introduction to Wood Working - Level 1

**WWK344 – 693344**

Students will be learning to use a variety of hand tools, and simple power machines to build various projects using wood, starting with simple ones, such as a spaghetti measure, and progressing to more complicated ones, such as a corner shelf.

## Secondary 4 - Introduction to Wood Working - Level 2

**WWK444 – 693444**

This course is available to Secondary 4 students and is worth four Secondary 4 credits. Using hand tools and power tools and a variety of machines in the wood shop, students will learn wood joining, gluing, mitring, and fitting to make complicated projects, starting with beach chairs, and progressing on to make potato bins and book cases.

## Secondary 5 - Introduction to Wood Working - Level 3

**WWK544-693554**

This course is available to Secondary 5 students and is worth four Secondary 5 credits. To start the course there will be a review of the machinery and hand tools and then students will work on complex woodworking projects using a variety of wood joining methods and fitting methods to build such objects such as book cases, armoires, and a variety of furniture.