



***JOHN RENNIE
HIGH SCHOOL***

Together, Reaching for Excellence

***COURSE SELECTION
HANDBOOK***

2016-2017

Secondary III & IV & V

**John Rennie High School
501 Boul. St. Jean
Pointe-Claire, Que.
H9R 3J5**

**514-697-3210 tel.
514-697-3520 fax**

**Mrs. Cristina Prata
Principal**

**Mrs. Elaine Fraser
Vice-Principal
Sec III & IV**

**Mr. Michael White
Vice-Principal
Sec V and Sport-Etudes**

**Mrs. Laurence Assouline
Vice Principal
Sec 1 & II**

**Website
<http://johnrennie.lbpsb.qc.ca>**



February, 2016

Dear Parents,

The Course Selection Handbook is a guide that has been created to help our students make decisions about elective courses, and understand, in brief, the course outline for the compulsory courses that they will need to take at each grade level.

This handbook will help you fill out the Course Option Form. When your form is completed, please return it to the school **no later than February 17th, 2016.**

This year again, we have included the course fees with the descriptions. We hope that this will help you better plan and prepare for the fee collection process. Please note that fees are reviewed and approved annually, by your Governing Board. In addition to specific course fees, there are also general school fees (\$58.00) for each of our students.

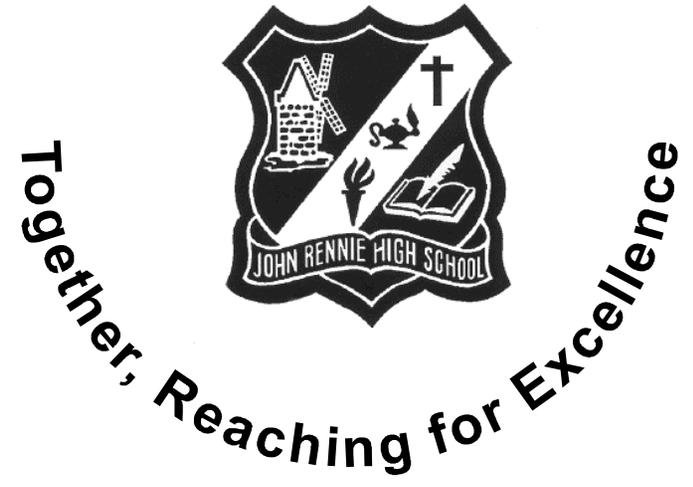
Please note that all course descriptions apply to all of our in school programs (ie: A+, Immersion, Sport Etudes).

As always, should you have any questions regarding this process, please feel free to contact us at the school, (514) 697-3210.

Sincerely,

A handwritten signature in cursive script that reads 'Cristina Prata'.

Mrs. Cristina Prata, Principal



Secondary III

Grade 9

COMPULSORY COURSES

ENGLISH (\$7.00)

ENGLISH

At the Secondary III level, students continue to experience language in a wide variety of forms. Novels, short stories, scripts, poetry, as well as non-print media are read for comprehension and analysis. Students are encouraged to read, write and discuss to develop their own self-awareness and an understanding of the world around them. They are encouraged to think critically and reflect while writing various forms of genres and participating in class discussions and self-evaluations.

ENRICHED ENGLISH

The Secondary III Enriched English program is a challenging course offered to motivated students with above average English skills in reading, writing and speaking. Students who are creative, reflective and have the ability to think in abstract terms belong in this enriched class.

Prerequisite: Placement by Secondary II teachers.

Some English Secondary III texts include: *A Raisin in the Sun*, *To Kill a Mockingbird*, *Death on the Ice*, *The Wave*, *Go Ask Alice*, *Define Normal*, *The Giver*, *The Merchant of Venice*.

FRENCH (\$30.00)

Parents are urged to do their utmost to foster a positive attitude towards the learning of French, and to provide opportunities to apply and reinforce, outside the school setting, the skills acquired in the classroom.

French marks are divided into three categories with one overall average mark. The percentages used for the overall marks are as follows:

| | Secondary III Second Language and Immersion | Secondary III Enriched |
|----------------------|--|-----------------------------------|
| Interagir | 40% | 40% |
| Compréhension | 30% | 30% |
| Production | 30% | 30% |

FRENCH SECOND LANGUAGE

This course develops reading, writing, listening and speaking skills. By using oral and written messages of general interest and common usage, students will learn to:

- ◆ Speak on subjects related to their experience and knowledge
- ◆ Write on topics related to their physical and social environment
- ◆ Use various models in their oral and written productions
- ◆ Use appropriate grammar and vocabulary in their oral and written productions

This course is for those following a regular English path.

FRENCH IMMERSION

The emphasis is placed equally on reading, written, and oral expression in everyday situations related to the students' age, interests and needs. While oral proficiency is very important, students are also expected to be able to express themselves adequately and correctly in written French.

ENRICHED FRENCH IMMERSION \$ 30.00 / SPANISH \$ 10.00

French Content: This course provides challenging material and opportunities to use the French language to the student's maximum ability.

Spanish Content: This is the continuation of first level **SPANISH**. It provides basic vocabulary and main structure. This program is taught with the direct method of communication using the support of audio and videotapes.

Prerequisite: Placement by Secondary II teachers.

MATH (\$ 35.00)

Math Cycle II Year 1 (Grade 9)

Math Cycle 2 Year 1 (Grade 9)

Students in grade 9 will be exposed to several concepts in mathematics. Students are encouraged to start their reflection on their preferences, areas of interests and aptitudes in various mathematical topics.

General topics covered in grade 9 are:

Arithmetic
Real numbers
Algebra
Geometry
Statistics & probability

The evaluations will be competency based.

The student:

- 1) Solves a situational problems (30%)
- 2) Uses mathematical reasoning (70%)

HISTORY AND CITIZENSHIP EDUCATION (\$ 30.00)
HISTOIRE ET ÉDUCATION A LA CITOYENNETÉ

This compulsory course may be taken in English or in French. This course is year one of a two year program. The course will cover the history of Quebec from the First Occupants to Modern Quebec. The emphasis will be on the interpretation and analysis of social phenomena in a chronological way. The students will develop their critical thinking as a citizen. Students will learn how to read and interpret original text, various maps, graphs, statistical tables, pictures and diagrams.

PHYSICAL EDUCATION (\$ 10.00) *

The following is an overview of the aims presented in the program:

- ◆ *Development according to individual talents and abilities*
- ◆ *Promotion of an optimal level of physical fitness*
- ◆ *Development of good health habits*
- ◆ *Development of a positive attitude towards life-long, active participation in physical activities*

Various activities are involved, and could include: basic movement and warm-up exercises, track and field, gymnastics, basketball, volleyball, soccer, wrestling, badminton, softball and dance. A unit in Health Education will also be included. Course is offered 2 periods on a 6 day cycle for the full year.

***Students are required to wear a JRHS t-shirt and shorts.**

SCIENCE PATHWAYS (\$ 15.00)*

***Both Applied and General Science lead to advance General Science path for grade 10.**

Applied Science and Technology (Applied Education Path)

This is a yearlong course separated into three compulsory concepts:

| The Technological World | The Living World | The Materials World |
|--|--|--|
| <ul style="list-style-type: none">• Graphical Language• Mechanical Engineering• Electrical Engineering• Materials• Manufacturing• Biotechnology | <ul style="list-style-type: none">• Nutrition• Nervous and Muscular System• Reproduction | <ul style="list-style-type: none">• Properties of Matter• Changes in Matter• Organization of Matter• Fluids• Waves |

Topics will be studied through a hands-on approach with an emphasis on their application to technology. Students will explore technological systems by deconstructing and analyzing the components.

***PLEASE NOTE THAT STUDENTS TAKING APPLIED SCIENCE MUST TAKE POP (Personal Orientation Project), AS THEIR ELECTIVE OPTION COURSE.**

Science and Technology (General Education Path)

This is a yearlong course separated into four compulsory concepts:

| The Living World | The Material World | The Earth and Space | The Technological World |
|---|--|----------------------------|---|
| Cell Division Tissues, organs and systems Nutrition Nervous and Muscular System Reproductive System | Properties of Matter Changes in Matter Organization of Matter Fluids Waves | The Earth Space | Graphical Language Mechanical Engineering Materials Biotechnology |

Topics will be studied through a hands-on approach with an emphasis on the scientific principles, laboratories and application of scientific theory to modern issues. Students will develop opinions with respect to the applications and limitations of science.

Compulsory Arts Education Courses

The Quebec Education Program now mandates that every Secondary III student take at least one Compulsory Arts Education Course. This course may be chosen from a specific list of courses, (Art, Music, Drama, Dance and Jazz Band), that are listed on the front of the Course Selection Form. These courses should not be confused with the Elective Courses that are listed on the back of that form. Here is a brief description of those courses:

Under the new QEP (Quebec Educational Program), study in the arts is compulsory. This regulation recognizes the important role the arts play in our society as an expression of our cultural identity. Courses in dance, drama, music and visual arts, will provide students with opportunities to create and perform their own material as well as expose them to the significant art of our culture.

COMPULSORY ARTS COURSES AT SECONDARY III

Students must choose one of the following Compulsory Arts Courses:

ART (\$ 32.00)

DANCE (\$ 15.00)

DRAMA (\$ 7.00)

MUSIC (\$ 95.00)

JAZZ BAND (\$ 95.00)

ELECTIVE CURRICULUM (OPTIONS)

Secondary III - Grade 9

Students must choose one of the following Elective Options

Please note that in Secondary III, it will be possible to take the same course as an Elective and as a Compulsory Option. In this way, it would be possible for a Secondary III student to have a Compulsory Music/Jazz Band Course every day instead of every other day.

ACTORS' STUDIO (\$ 50.00)

SECONDARY III

This course is open to students in Secondary III, IV, and V who are passionate about theatre performance and want to be involved in the annual school production. Both actors and crewmembers are welcome in this class but must first audition and interview for the course. Students must be prepared to work outside the regular student timetable.

Prerequisite: *successful audition.*

ATHLETIC LEADERSHIP (\$ 12.00)

SECONDARY III

This course is designed to help students acquire the skills needed to coordinate athletic events from proposal to product while providing a quality lunchtime intramural sport program for Cycle I. Students will be expected to plan and execute the running of activities, games, leagues, and tournaments, understand basic principles of officiating, promotion, and team management, and begin to look at athletics and sport from a business, sales, and marketing perspective. There may be an extra-curricular component to this course.

CERAMICS, SCULPTURE AND CLAY (\$ 32.00)

SEC. III

Students will be introduced to the basics of working in clay through a variety of construction methods including pinching forms, coil building, tile making, clay sculpting, and the potter's wheel. Ceramic pots, mugs, tiles, sculptures and more can be designed and made in this class. Students will paint surface decoration and apply design techniques using glazes and will learn about the process of loading and firing a ceramic kiln. Historical and present day artists and designers will be studied as they relate to the contemporary studio projects.

COOKING (\$ 75.00)

SEC. III

This course will discuss the various nutritional components of food. It will further the student's knowledge of the importance of proper eating in helping the body to combat cancer in its initial stages. The student will be able to make healthy choices of food and gain knowledge of scientific studies that have shown the link between poor eating habits and bad health. Another component of the course will involve learning simple recipes, meal planning and preparation to incorporate the knowledge gained in the theoretical part of the course. Students will learn how to prepare nutritious meals in the home economics room.

DRAMA/IMPROV (\$ 7.00)

SECONDARY III

Are you interested in people and do you think about why they do what they do? Transform your interest and understanding of people into theatre through role playing exercises and spontaneous improvisational games. Develop your ability to concentrate, to focus your energy and to express your ideas through voice and movement. This course will focus on character study and the dramatic monologue

JAZZ BAND (\$ 95.00)

SECONDARY III

Advanced performance class; latin, funk, bebop and modern jazz etc
Students will play saxophone, trumpet, trombone, drums, bass guitar and/or piano. As well Jazz band includes improvisation instruction.
Students are expected to practice their instruments minimum 40 min/day.

LEADERSHIP IN THEORY (\$ 30.00) **SECONDARY III**

This course will deal with the theoretical and practical applications of human relations. The time in the class will be split between classroom instruction and practical workshops acquiring and using the basic knowledge of leadership. Students will develop communication skills, organize and run events sometimes outside of their timetable, demonstrate independent study and develop an understanding of their selves. A uniform t-shirt will be provided for students to wear at events. Also, please note that students will be required to attend and run events that take place in the evenings and on PED days

A signature is required from the Leadership Department for admission to this course.

PERSONAL ORIENTATION PROJECT (POP) (\$ 9.00)

SECONDARY III

The POP gives students the central role to explore, reflect and discover various fields that interest them by accessing pedagogical resources and actively trying out a variety of work functions It is a process that starts early in a student's elementary school life through Guidance Oriented Approach to Learning activities. The development of their career identities carries on throughout their lives as a result of the foundation of new competencies they acquire through POP. The student: develops his/her own project on an individual basis and develops between three to eight career explorations processes by:

- using "tool kits", consulting career resources, job shadowing, visiting educational institutions, etc.

- using a ministerial Web site offering a virtual resource library of specific tools such as experiential tools, virtual visits, key resource people

The student reflects on his/her career exploration and those of his/her classmates alone, with classmates, parents or other trusted people and considers hypothetical career paths

RECREATIONAL \$ 10.00

SEC.III

Students will be introduced to a variety of cooperative games for all age level from K-11. Focus on teamwork, strategy building and basic skills. Students can create games of their own or modifications to games already learned.

ELECTIVE COURSES ARE OFFERED WHERE THERE IS SUFFICIENT REGISTRATION FOR THE COURSE. PLEASE NOTE THAT STUDENTS WHO REGISTER FOR THE APPLIED SCIENCE COURSE MUST AUTOMATICALLY TAKE POP AS AN ELECTIVE.



Senior School

Secondary IV and V

Grades 10 and 11

Graduation Requirements:

The Ministry of Education (MELS) awards a Secondary School Diploma to students who have earned 54 credits in Secondary IV and V, at least 20 of which must be at the Secondary V level. The following credits are compulsory:

6 Secondary V credits in English, language of instruction

4 Secondary V credits in French, second language

4 Secondary IV credits in Mathematics

4 Secondary IV credits in Science and Technology OR 6 credits in Applied Science and Technology

4 Secondary IV credits in History and Citizenship Education

2 Secondary IV credits in Arts

2 Secondary V Ethics and Religious Culture or Physical Education and Health

At the end of Secondary IV, the *Ministry of Education* begins to issue report cards of its own (entitled *Relevé d'apprentissages*), which are mailed directly to the student's home in early July. *Advancement is based on success.* Students who do not pass will be required to write supplemental exams or repeat failed courses. Please note that the school report card in June is not always an indication of success in the course. It is the *Relevé d'apprentissages* which will indicate the mark.

COMPULSORY COURSES

ENGLISH –SECONDARY IV AND V (\$ 7.00)

ENGLISH ENGLISH

SECONDARY IV SECONDARY V

The Secondary IV and V English Language Arts program is designed to help students use language effectively, both in formulating their ideas and in communicating with others. To this end, students are given the opportunity to expand their use of language in a wide variety of listening, reading, speaking, writing and viewing situations. Students engage in:

- ◆ the process of responding to literature through the study of poems, short stories, novels, plays, non-fiction and media;
- ◆ the process of composing which allows students to explore an idea or topic through brainstorming or research, to organize and plan their writing, to draft and then revise their work, and to present their product for feedback and appraisal;
- ◆ the process of communicating through listening and speaking activities in informal class situations, such as small group discussions, as well as more formal individual and group presentations;
- ◆ the critical analysis of print and non-print media
- ◆ Preparation for Ministry of Education exam at the end of the Secondary V year.

ENRICHED ENGLISH
ENRICHED ENGLISH

SECONDARY IV
SECONDARY V

The enriched Secondary IV course is offered to motivated and talented English students. Reading, writing and presentations by students demand more time and effort than the regular Secondary IV English workload. Students who are creative and reflective belong in the enriched program. Some Secondary IV texts: *Catcher in the Rye*, *The Crucible*, *Night*, *Dawn, Speak*, *Ender's Game*, *A Separate Peace*, *Theories of Relativity*, *Of Mice and Men* and *A Streetcar Named Desire*.

At the Secondary V level, the course is designed for the advanced student. At this point, the course focuses on original and dynamic critical thinking above all else. Students are encouraged to show initiative beyond the boundaries of the course. Some English Secondary V texts could include: (*Hamlet*, *Othello*, *Slaughterhouse Five*, *The Power of One*, *East of Eden* and *Cider House Rules*).

Prerequisite: Placement based on marks and teacher recommendation.

ETHICS & RELIGIOUS CULTURE (\$ 5.00)

SEC. IV & V

The recognition of others and the pursuit of the common good are the two main objectives of the program. They are interdependent and common to both ethics and religious culture. By bringing together ethics and religious culture into a single program, students will be encouraged to engage in critical reflection on ethical questions and to understand the phenomenon of religion.

The ERC program focuses on the development of two competencies which must be developed in light of their complementarities, one with the other, as opposed to in a linear manner:

- Reflects on ethical questions
- Demonstrates an understanding of the phenomenon of religion

Engaging in dialogue is an essential aspect in the evaluation of both competencies. Students are expected to reflect on issues, through interaction, with others to develop a point of view.

The ERC program also takes into account secular expressions and representations of the world and of human beings, which seek to define the meaning and value of human experience outside the realm of religious beliefs and affiliation.

Students will have the opportunity to analyze forms of religious expressions, make connections between these expressions and the social and cultural environment, and examine various ways of thinking, being and acting. Ethical themes for Cycle 2 include, "The Future of Humanity" and "Justice". Religious Culture themes for Cycle 2 include, "Existential Questions" and "Religious Experience".

Please note that in Secondary IV, Ethics and Religious Culture will be integrated with the History Course. In Secondary V, Ethics and Religious Culture will be integrated into the Secondary V English Course.

FRENCH-SECONDARY IV & V (\$ 30.00)
FRENCH-SEC. IV & V ENRICHED (\$ 30.00)

French marks are divided into three categories with one overall average mark. The percentages used for the overall marks are as follows:

| | Secondary IV & V Second Language and Immersion | Secondary IV & V <u>Enriched</u> |
|------------------|---|---|
| Interagir | 40% | 33% |
| Écrit | 30% | 33% |
| Lecture | 30% | 34% |

Secondary IV students who are taking the Advanced Science Package will be taking French only 4 periods out of the 6 day cycle. Secondary IV students who are taking the General Science and Applied Science Package will be taking French for 6 periods out of the 6 day cycle. The reason for this is that the Advanced Science Package, (which leads to Chemistry and Physics in Secondary V), will be given as 8 periods on the 6 day schedule. In Secondary V, French will be given 6 periods on 6 days.

Secondary V students will undertake a common year-end Ministry examination in French that they must pass in order to graduate from high school.

FRENCH SECOND LANGUAGE**SECONDARY IV**

The overall aims of the course are to provide students with a solid foundation of the language which will allow them to participate in the professional, social and cultural life of their milieu, to enable students to communicate in everyday life situations which are meaningful to their age group and to develop in them a positive attitude towards the French language and culture. The students should be able to:

- ◆ Understand conversation on topics based on their needs and experience.
- ◆ Read communications on subjects of general interest.
- ◆ Express themselves orally and in writing on topics of general interest to them and within the range of their own experience.

This course is for those following a regular English path.

FRENCH IMMERSION**SECONDARY IV**

This course is designed for students from Immersion classes. It is an enriched course, the objectives of which are to develop the mechanics of written expression, to improve oral communication.

FRENCH SECOND LANGUAGE**SECONDARY V**

Students completing this course will be able to express themselves on all subjects within their daily experiences. Class discussions center on content of the assigned texts, augmented with newspapers and radio programs. This course requires students to be able to write fairly accurately using the main structures of the French language. This course is for those following a regular English path.

FRENCH IMMERSION**SECONDARY V**

This is a more advanced course offering a challenging study of the French language and culture. The main emphasis is on oral communication and written comprehension. Reading assignments include several short novels, short stories and newspaper articles.

Prerequisite: *Teacher recommendation.*

ENRICHED FRENCH**SECONDARY V**

This course provides challenging material and opportunities to use the French language to the student's maximum ability.

Prerequisite: *Teacher recommendation.*

COMPULSORY ARTS EDUCATION COURSES
FOR SECONDARY IV and SECONDARY V
STUDENTS

Students in Secondary IV must choose one course from the following Compulsory Art Education Courses. Students in Secondary V must choose one Compulsory Arts Course and two Elective Options Courses. (The Elective Option Courses may include Chemistry and Physics)

The Quebec Education Program now mandates that every Secondary IV student take at least one Compulsory Arts Education Course. This course may be chosen from a specific list of courses, (Art, Music, Drama, and Dance), that are listed on the front of the Course Selection Form.

Under the new QEP (Quebec Educational Program), study in the arts is compulsory. This regulation recognizes the important role the arts play in our society as an expression of our cultural identity. Courses in dance, drama, music and visual arts, will provide students with opportunities to create and perform their own material as well as expose them to the significant art of our culture.

COMPULSORY ARTS COURSES FOR SECONDARY IV

ACTORS' STUDIO (\$ 50.00) (Dramatic Literature and Performance)

SECONDARY IV

This course is open to students in Secondary III, IV, and V who are passionate about theatre performance and want to be involved in the annual school production. Both actors and crew members are welcome in this class but must first audition and interview for the course. Students must be prepared to work outside the regular student timetable.

Prerequisite: successful audition

VISUAL ARTS (\$ 32.00)

SECONDARY IV

This course will initiate the students to a variety of art materials and art techniques that relate to drawing, painting, sculpturing and some printing. The art will be related to the appropriate historical period. No experience is required other than the will to learn and experiment.

DRAMA (\$ 7.00)

SECONDARY IV

Through experiences in playmaking, performance and stage directing, students will develop performance skills and techniques. Students will learn how to turn their ideas into drama, how to edit and structure scenes, and to analyze and present scenes from different periods of dramatic literature. Students will work with the media of both live theatre and cinema. They will develop an appreciation for theatre and its place in our culture. The course will culminate in a public performance.

MUSIC (\$ 95.00)

This is a traditional Concert and Jazz Band Program. Students will learn to play a woodwind, brass or percussion instrument in a band setting. This is a dynamic and energetic course. Mandatory uniform, music competitions, concerts, workshops, and field trips will be subject to additional costs during the course of the year. Join the JRHS Music Department and become a member of the Junior or Senior Band. Finally, mandatory morning rehearsals are also a key component to the success of the program.

ELECTIVE COURSES FOR SECONDARY IV STUDENTS

ARCHITECTURAL DESIGN (\$ 32.00)

SECONDARY IV

Students will be introduced to various phases of architectural planning and construction including surveying, site analysis, building components and terminology, construction methods, materials and costing, model construction and related trades and occupations.

PUBLIC SPEAKING/DEBATING (\$ 5.00)

SECONDARY IV

This is a course in which students learn the principles of effective oral communication, argumentation and debate. They analyze contemporary problems and issues, research the topics and organize material for public delivery. All students do in-class debating and speech-making. Individuals may be selected to represent the school in debating competitions, model United Nations, and public speaking contests.

A signature is required from your current English teacher for admission to this course.

FITNESS (\$ 25.00)

Sec. IV

This course would focus on fitness and health for Secondary 5 students through theory, lab and training.

LEADERSHIP (\$ 15.00)

SEC IV

This is a course open to Secondary IV and V students. This course is designed to help students acquire the tools they will need to be active leaders in our ever changing world.

Students enrolled in this course will be expected to involve themselves in:

- The school's Leadership program
- The JRHS School Store
- Any JRHS extracurricular activity that may require our assistance
- Preparing promotional materials for a major school activity

- Preparing promotional materials for a community based event
- Promotion of Student Activities at John Rennie

The teaching approach will combine lecture and independent project work. Active student participation and collaboration is required both during and outside the class time.

A signature is required from the Leadership Department for admission to this course.

PHOTOGRAPHY (\$ 20.00)

SECONDARY IV

In the theoretical component of the course, students will learn how the various functions of their camera interact to produce the desired exposure. They will learn how aperture, shutter speed and ISO combine and how changes made to each one individually and/or separately affect the outcome of the photograph.

In the practical component of the course, students will apply what they have learned in theory while taking photographs and editing them in both Photoshop Elements and Lightroom.

Various techniques and popular photographers will be explored.

Students must own a camera and a USB key.

Many of the photos used for the course will be taken outside of school hours.

Students will be expected to complete and submit several projects throughout the year in order to demonstrate their skills.

SET DESIGN/PROP CONSTRUCTION (\$25.00)

SEC. IV

This course has been created for those with a creative mind that are interested in a more hands on approach to their arts through sculpture and construction.

This visual arts class will co-exist alongside the school plays each year and students will be asked to create 3-D props, murals and stage sets as well as participating in additional EC activities relating to their artistic challenges. This is a great course for those who love the arts, theatre and change, as it will be a new adventure with each production on stage!

MATHEMATICS IN SECONDARY IV (\$ 35.00)

Cultural, Social & Technical Math (CST)
 Or
 Scientific Math (SN)

Students' placement in math will be determined by marks and teacher recommendation.

Please see the following chart for a description of the courses;

| Cultural, Social & Technical (CST) | Science (SN) |
|--|--|
| <p>This option provides students with tools that help them to <i>increase their capacity for analysis</i>, to consider different possibilities, to make informed decisions, to <i>support their reasoning</i> and to take a position with respect to various issues.</p> <ul style="list-style-type: none"> - consolidating and integrating knowledge in a variety of activities - hands on activities - exploration activities - games - research - presentations - debates - analysis of newspaper articles and advertising - interpreting reality as well as making generalizations, predictions, decisions - carry out concrete, practical activities - use technology to represent or process large amounts of data or relieve tedium | <p>Students become familiar with new networks of concepts and processes. Their capacity for abstract thinking enables them to make a variety of connections among the different branches of mathematics. They make more formal use of symbols, rules and conventions in their work and are required to construct proofs.</p> <p>This option emphasizes the modeling process.</p> <p>Students analyze a situation, a phenomenon or a behavior, and notice related patterns or trends. They interpolate, extrapolate and generalize. Students encounter situations that require them to use their knowledge of math <i>and</i> other subject areas. They work with purely mathematical contexts while continuing to deal with concrete situations, particularly of a scientific nature.</p> |

MATHEMATICS
(\$ 35.00)

SEC.V

Cultural, Social & Technical Math

CST Math is a continuation of the grade 10 program intended for students interested in social causes. It involves a greater use of statistics and discrete mathematics. Specifically, it prepares students for studies in the arts, communications, the humanities and the social sciences.

The main concepts pertaining to CST are:

- Algebra (system of first-degree inequalities in two variables)
- Geometry (equivalent figures, path, circuit)
- Statistics (conditional probability)

Science Math

Science Math (SN) is a continuation of the grade 10 program intended for students interested in seeking to understand the origin of various phenomena. Its emphasis is on students' capacity for abstract thinking and performing more complex algebraic operations. Specifically, this option prepares students for studies in pure sciences where they may eventually specialize in research.

The main concepts pertaining to Science are:

Algebra (real functions, system of first-degree inequalities in two variables)

Geometry (equivalent figures, conics, vectors, trigonometric identities)

SOCIAL SCIENCES

SEC. IV AND V

HISTORY AND CITIZENSHIP (\$30.00)

SECONDARY IV

Histoire et éducation à la citoyenneté*

This course is mandatory for a high school leaving certificate.

This compulsory course may be taken in English or in French. This is year two of a two-year program. The course will cover the history of Quebec using a thematic approach. The students will cover population and settlement, economy and development, culture and currents of thought, official power and prevailing powers. They will finish the year with an issue in society today. Using original texts, various maps, graphs, statistical tables, pictures and diagrams, the students will develop their critical thinking as a citizen. **A final MEQ exam will count for 50% of the final evaluation.**

**Students in Enriched French must take Histoire.*

ETHICS & RELIGIOUS CULTURE (\$ 5.00)

SEC. IV & V

The recognition of others and the pursuit of the common good are the two main objectives of the program. They are interdependent and common to both ethics and religious culture. By bringing together ethics and religious culture into a single program, students will be encouraged to engage in critical reflection on ethical questions and to understand the phenomenon of religion.

The ERC program focuses on the development of two competencies which must be developed in light of their complementarities, one with the other, as opposed to in a linear manner:

- Reflects on ethical questions
- Demonstrates an understanding of the phenomenon of religion

Engaging in dialogue is an essential aspect in the evaluation of both competencies. Students are expected to reflect on issues, through interaction, with others to develop a point of view.

The ERC program also takes into account secular expressions and representations of the world and of human beings, which seek to define the meaning and value of human experience outside the realm of religious beliefs and affiliation.

Students will have the opportunity to analyze forms of religious expressions, make connections between these expressions and the social and cultural environment, and examine various ways of thinking, being and acting. Ethical themes for Cycle 2 include, "The Future of Humanity" and "Justice". Religious Culture themes for Cycle 2 include, "Existential Questions" and "Religious Experience".

Please note that in Secondary IV, Ethics and Religious Culture will be integrated with the History Course. In Secondary V, Ethics and Religious Culture will be integrated into the Secondary V English Course.

CONTEMPORARY WORLD (\$ 30.00) SECONDARY V

The aim of this course is to help students grasp the complexity of the world today by developing their critical judgment through the study of problems and issues of the contemporary world.

The course will focus on 5 themes:

The environment and sustainable development
Population and migration
Power of the states
Disparity of wealth
Intervention in zones of tension and conflict

The two competencies that will be evaluated in this final year of Social Studies will be:

Interpretation: interprets a contemporary world problem

Position: Takes a position in a contemporary issue

LE MONDE CONTEMPORAIN* (\$ 30.00) SEC. V

Learn Contemporary World History with **a few twists:**

1. The course will be offered in French to further the Immersion experience.
2. Learn “*Le Monde Contemporain*” through viewing and studying of contemporary world related documentaries.
3. The students will learn the different stages of producing a documentary through a year long group project.
4. Learning will be further enhanced through various field trips (**approx. costs \$100.00**), guest speakers, documentary film festivals, National Film Board and Radio –Canada.

SCIENCES SECONDARY IV AND V

SCIENCE PATHWAYS

Grade 10 Science is a compulsory course for graduation.

Applied Science and Technology (6 Credits) (\$ 15.00)

Topics:

| Living World | Material World | Earth and Space | Technological World |
|------------------------|--|--|---|
| Dynamics of Ecosystems | Graphical Language Mechanical and Electrical Engineering Materials Manufacturing | Chemical Changes Electricity Electromagnetism Transformation of Energy Fluids Force and Motion | Lithosphere Hydrosphere Atmosphere Space |

Students will use a hands on approach to acquire skills and knowledge to solve diverse problems. They will analyze and understand the construction and inner workings of technical objects and technological systems. The course will place emphasis on the control of objects and systems, the principles involved in maintenance and repair as well as the applications of energy.

***General Science and Technology (4 credits) (\$ 15.00)**

***Environment Science and Technology(8 credits)(\$20.00)**

For both courses students will use a theoretical approach to acquire skills and knowledge to solve problems. They will also explore the inner workings of technical objects and study topics related to earth and space, ecology, energy and matter. They will conceptualize and apply what they have learned to deal with everyday issues and to make informed judgments.

* The 8 credit course covers many enrichment topics for students interested in pursuing Chemistry and Physics in Secondary V.

Topics:

| Living World | Material World | Earth and Space | Technological World |
|--------------|---|---|--|
| Ecology | Physical Properties of Solutions Organization of Matter Electricity Electromagnetism Transformation of Energy | Biogeochemical cycles Climate Zones Lithosphere Hydrosphere Atmosphere Space | Mechanical and Electrical Engineering Materials |

PHYSICAL EDUCATION (\$ 10.00) SECONDARY IV & V

*The following is an overview of the aims presented in the program:**

- ◆ Development according to individual talents and abilities
- ◆ Promotion of an optimal level of physical fitness
- ◆ Development of good health habits
- ◆ Development of a positive attitude towards life-long, active participation in physical activities

Various activities are involved, and could include: basic movement and warm-up exercises, track and field, gymnastics, basketball, volleyball, soccer, wrestling, badminton, softball, dance, weight training and CPR. A unit in Health Education will also be given.

***Students are required to wear a JRHS t-shirt and shorts.**

COMPULSORY ART COURSES FOR SECONDARY V STUDENTS

**(All Secondary V students must choose one of these courses)
Please note that all Compulsory Arts Courses and electives will be given 4 periods on 6 days for a full year.**

VISUAL ARTS (\$ 32.00)

SECONDARY V

This course will initiate the students to a variety of art materials and art techniques that relate to drawing, painting, sculpturing and some printing. The art will be related to the appropriate historical period. No experience is required other than the will to learn and experiment.

DRAMA (\$ 7.00)

SECONDARY V

Through experiences in playmaking, performance and stage directing, students will develop performance skills and techniques. Students will learn how to turn their ideas into drama, how to edit and structure scenes, and to analyze and present scenes from different periods of dramatic literature. Students will work with the media of both live theatre and cinema. They will develop an appreciation for theatre and its place in our culture. The course will culminate in a public performance.

MUSIC (\$ 95.00)

SECONDARY V

This is a traditional Concert and Jazz Band Program. Students will learn to play a woodwind, brass or percussion instrument in a band setting. This is a dynamic and energetic course. . Mandatory uniform, music competitions, concerts, workshops, and field trips will be subject to additional costs during the course of the year. Join the JRHS Music Department and become a member of the Junior or Senior Band. Finally, mandatory morning rehearsals are also a key component to the success of the program.

ELECTIVE COURSES FOR SECONDARY V STUDENTS

Students in Secondary V who are not taking Chemistry and Physics will have the opportunity to take 2 elective courses and one Compulsory Arts course. Students who are taking Chemistry and Physics must choose from one Compulsory Arts Course. The Chemistry and Physics will count for the two Elective Options. Listed below are the Secondary V Elective Option Courses.

**ACTORS' STUDIO (\$ 50.00)
(Dramatic Literature and Performance)**

SECONDARY V

This course is open to students in Secondary III, IV, and V who are passionate about theatre performance and want to be involved in the annual school production. Both actors and crew members are welcome in this class but must first audition and interview for the course. Students must be prepared to work outside the regular student timetable. This course includes enriched English.

Prerequisite: successful audition

ADAPTIVE PHYSICAL EDUCATION (\$ 10.00)

SEC. V

This course is offered to students interested in learning how to assist and adapt sports and physical activities for individuals with a variety of special needs. This course will enable John Rennie students with special needs to develop their muscle control, coordination and cooperation with the assistance of their peer mentors. Students entering this course as a mentor will be expected to assist in the development of activities and games as well as to assist the student they are mentoring in carrying out physical tasks.

Prerequisite: letter of intent

BASIC ELECTRONICS (\$ 45.00)

SECONDARY V

This course will introduce students to electronics, one of the fastest growing high-tech fields of our century. Through a theoretical and hands-on approach using a multitude of components and devices, students will explore the fascinating world of electricity and solid-state electronics. This captivating program will present electricity, basic electronic components, semiconductors, photonic semiconductors, as well as digital and linear integrated circuits. Through demonstrations and basic circuit design and assembly, students will demystify the wonderful world of electronics.

BIOLOGY (\$ 10.00)

SECONDARY V

Biology, which is the study of life and living things, will focus on making students understand the relationship and nature between form and function in different organisms (from a bacteria, to a maple tree to an orangutan to YOU, a human). The principal aim of the course is to instill a sense of curiosity and discovery in looking at the living world. This course is aimed for students who love the natural world but are not necessarily pursuing science as a study or career path.

This course will be presented using lectures, hands-on activities, discovery TV clips, individual research work done by students, and through classroom demonstrations. Hands-on laboratory and fieldwork will be used as much as possible to reinforce the theoretical material covered in the course. Several field trips (may be subject to additional costs) will be planned such as a visit to the Botanical Gardens, Insectarium and snowshoeing/bird watching in the Morgan Arboretum in conjunction with a presentation from McGill University. Biology is sure to be an interesting and fun course in your last year of high school.

CHEMISTRY (\$ 10.00)

SECONDARY V

The Chemistry program is an extension of the programs in Secondary Cycles One and Two. It is intended to consolidate and enrich students' scientific training and is a prerequisite for several pre-university or technical programs at the CEGEP level (Pure and Applied Science and Health Science).

Its content focuses on one subject with compulsory concepts organized around four general concepts:

- Gases
- Energy Changes in Reactions
- Reaction Rate
- Chemical Equilibrium

The content will be covered meaningfully and will require the application of knowledge to various subjects, themes and problems with a focus on the link between chemistry and mathematics.

To be eligible to take Chemistry, students must take the 8 credit advanced course in grade 10 Science. Students must have 80% or higher in grade 10 Science and be enrolled in grade 11 Technical and Science Math or Science Math

ECONOMICS (\$ 30.00)

SECONDARY V

The course enables students to acquire a basic knowledge of economic theory and the challenges of a global economy. Part of the evaluation is a term paper that allows students to visit a corporation and interview an entrepreneur or an employee of that company. This will give student the experience to see what skills and challenges are required in our present day economy.

FITNESS (\$ 25.00)

SECONDARY V

This course would focus on fitness and health for Secondary 5 students through theory, lab and training.

INTRODUCTION OF FILM STUDIES (\$7.00) **SECONDARY V**

This course will provide a strong foundation in film studies with a focus on narrative cinema. We will be viewing, studying, discussing and writing about film. The course is also designed to introduce students to the fundamentals of developing and writing short stories and original scripts for film and television. In the practical component of the course, students are

required to apply what they learn in theory by creating their own short stories, film scripts and a short movie.

There will be a field trip to the National Film Board and a field trip to view a movie at the Kirkland Colosseum. Each field trip will cost approximately \$25.00.

Please note students are required to have their own technology and field trip costs are not included in the student fees.

INTRODUCTION TO LAW (\$ 15.00)

SECONDARY V

This course will introduce students to their rights and obligations as defined by the Canadian Charter of Rights and the Quebec Charter of Rights. The course will stress such rights as:

- ◆ Basic Rights and Freedoms
- ◆ Consumer Rights
- ◆ Tenant's Rights
- ◆ Young Offenders Rights

This course will be a hands-on course using real life cases. Visits by lawyers and judges will help students to better understand the justice system.

LEADERSHIP (\$ 15.00)

SEC. V

This is a course open to Secondary V students. This course is designed to help students acquire the tools they will need to be active leaders in their community. Students enrolled in this course will be expected to involve themselves in:

- ◆ Organizing and running a major school activity
- ◆ A community-based event
- ◆ Fundraising activities for Leadership
- ◆ Promoting the Leadership Program

The teaching approach will combine lectures and independent project work. Active student participation and collaboration is required both during and outside of class time

A signature is required from the Leadership Department for admission to this course.

PHYSICS (\$ 10.00)

SECONDARY V

The Physics program is an extension of the programs in senior Science. It is intended to consolidate and enrich students' scientific training and is a prerequisite for several pre-university or technical programs at the CEGEP level (Pure and Applied Sciences and Health Science).

The curriculum is organized around four general concepts:

- Kinematics
- Dynamics
- Transformation of Energy
- Geometric Optics

The content will be covered meaningfully and will require the application of knowledge of various subjects, themes and problems with a focus on the link between Physics and Mathematics.

To be eligible to take Physics, students must take the 8 credit Advanced Science course in grade 10. Students must have 80% or higher in grade 10 Science and be enrolled in grade 11 Technical and Science Math (TS 11) or Science Math (SN 11).

Teacher signature is required.

PSYCHOLOGY (\$ 10.00)

SECONDARY V

This is an introduction course to the study of Psychology. The aim of the course is to introduce students to the study of behaviour and mental processes, as well as, the major fields within Psychology. Students will be encouraged to make connections between their own lives and material studied.

COOKING (\$ 75.00)

SEC. V

This course will discuss the various nutritional components of food not covered in the Secondary 3 Science program. It will further the student's knowledge of the importance of proper eating in helping the body to combat cancer in its initial stages. The student will be able to make healthy choices of food and gain knowledge of scientific studies that have shown the link between poor eating habits and bad health. Another component of the course will involve learning simple recipes, meal planning and preparation to incorporate the knowledge gained in the theoretical part of the course. Students will learn how to prepare nutritious meals in the home economics room.

STUDY OF SCIENCE FICTION (\$ 5.00)

SECONDARY V

This is a course that will focus on the genre of science fiction. Students will examine the different media of science fiction such as novels, short stories, television, movies, comics and radio. This course will focus on:

- The historical context of the science fiction writer.
- The underlying political, social, economic and scientific messages throughout the genre.
- The creativity and science in science fiction.

Generally the class will focus on classic examples of science fiction in all its forms. Students will be given opportunity to bring in their own specific areas of interest and will be encouraged to discuss them with the class. Students will be expected to participate in class discussion, express their opinions in written form and complete a term project each term.

LIFE SKILLS PROGRAM

The Life Skills Program offers a modified curriculum to students with high special needs. The program provides an opportunity for students to develop communication skills, living skills, literacy, numeracy, and social as well as leisure skills within a highly supportive and structured environment. The classroom composition is small with a ratio of one adult to no more than three students. Students are fully integrated in school spirit activities and have the option of participating with peers in a standard art, drama and/or gym class.

Student progress is monitored relative to IEP and TEVA goals as well as formally evaluated on an alternative report card. The program collaborates with community supports in transition planning for seniors and may include work experience opportunities both at school and in the community.

Life Skills Courses (\$80.)

Course: Current Events

Description: This course focuses on comprehension, fluency and accuracy when reading. Activities are centered on newspaper articles.

Course: Math

Description: This course focuses on basic math functions, measurement, money and time management.

Course: Social Studies

Description: This course emphasizes community access and awareness. Students receive public transportation training as well as opportunities to visit landmarks and points of interest including: community centers, shopping centers and recreational facilities. They learn to read and recognize signs for safety, direction and information. Students also study basic Canadian geography and history.

Course: Independent Living

Description: This course emphasizes the skills needed to live independently or semi-independently including: budgeting, finance, home management, health and physical education. Social skills training is also provided in the following areas: assertiveness, sex education, relationships and stranger awareness. The F.L.A.S.H. (Friendship, Love, and Sexual Health) curriculum is covered in this program.

Course: Science

Description: This course emphasizes the applications of science in the everyday lives of students. Students are guided through various hands-on-activities and develop skills, including problem solving, team work and communication.

Course: Work Study

Description: This course is central to transition planning for life after high school. The course provides job training, coaching and preparation services. Students begin working in the classroom, learning the principles of appropriate work habits and team-work. Work experience opportunities are then available at school and at times in the community.

Course: Technology

Description: This course examines technology and the applications for daily life. Students examine technology for word processing, communication, research and multimedia projects.

Course: Cooking

Fee: \$ 55.00

Description: This course teaches simple cooking skills using easy and nutritious recipes. The goal is to develop autonomy with respect to meal preparation.



SPORT-ÉTUDES PROGRAM **Sport-études Program Fee \$ 20.00 (Baseline Testing)**

The Sport-études Program is a scholar-athlete program for students who are elite athletes in their chosen sport. This unique program, supported by the Ministère de l'Éducation, Loisirs et Sports (MELS), offers reduced time in the school schedule, allowing students to spend afternoon time in training. The Ministry uses *balance* in its philosophy: school in the morning, training in the afternoon and *normal* adolescent life at night and during week-ends.

Morning and afternoon PED support, (supervised study halls with teachers available for individualized help), is offered daily. Afternoon pedagogical supports are mandatory when students are not participating in training, and are essential for academic consistency. Teachers can also require students' attendance in PED support following an absence or in case of academic difficulties. Students entering the Sport-études program in Secondary I must write the entrance exam in order to be considered for acceptance and must also be accepted by their corresponding sports organization. Students entering in Secondary II to V must submit report cards, samples of work in French, English, and a third subject, reference letters can also be accepted by their corresponding sports organization.

Below you will see the course offerings and the subject-time allocation for each course and grade level. Due to the small size of the program, (300 students), full electives and compulsory arts courses are determined by the administrative coordinators of the program.

History and Histoire are offered in both Grade 9 and Grade 10; however, class numbers will dictate whether the course will be given in French. In the math and science packages, placement into advanced courses will be determined by the marks and teacher recommendation. **Please note that since there are only two class groupings, switching from one grouping to another will be allowed only where there is sufficient room for movement.**

Please consult the link on our JRHS website for more information regarding our Sport-Etudes program. For a more complete description of the courses, please consult the course outlines in this handbook.

**Grade 9 S.E.
Offered in French**

French (4 Periods)
Art (1 Periods)
Phys. Ed. (1 Period)
Histoire (4 Periods)

**Grade 9 S.E.
Offered in English**

App. Science (4 Periods)
Math (5 Periods)
English (4 Periods)
POP (1 Period)
History (4 Periods)

**Grade 10 S.E.Science Pack.
Offered in French**

French (4 Periods)
Histoire (4 Periods)
Art (1 Period)

**Grade 10 S.E. Science Pack.
Offered in English**

English/ERC (4 Periods)
History (4 Periods)
Adv. Science/Phys.Ed.(6 Periods)
Science Math (5 Periods)

**Grade 10 S.E. Regular
Offered in French**

French (4 Periods)
Histoire (4 Periods)
Art (1 Period)

**Grade 10 S.E. Regular
Offered in English**

English (4 Periods)
History (4 Periods)
Gen. Science (4 Periods)
CST Math (5 Periods)
Phys. Ed. (1 Period)
ERC (1 Period)

**Grade 11 S.E.Science Pack.
Offered in French**

French/Art (4 Periods)

**Grade 11 S.E. Science Pack.
Offered in English**

Science Math (5 Periods)
Contemporary World (4 Periods)
English/ERC (4 Periods)
Physics (3 Periods)
Chemistry (3 Periods)
Phys. Ed. (1 Period)

**Grade 11 S.E. Regular
Offered in French**

French/Art (4 Periods)

**Grade 11 S.E. Regular
Offered in English**

CST Math (5 Periods)

Contemporary World (4 Periods)

English/ERC (4 Periods)

Phys. Ed. (1 Period)

Psych. & Sports Psych. (3Periods)

Media & Communication (3Periods)

Leadership (3 Periods)