

# PHILEMON WRIGHT HIGH SCHOOL

## COURSE SELECTION PACKAGE 2014-2015



### STUDENTS ENTERING SECONDARY 5

#### Included in this package:

- Instructions for completing a course selection form
- Sec. 5 course selection form (return to Day 5 homeroom teacher by March 20<sup>th</sup>, 2014)
- Elective course descriptions/CEGEP requirements

*\*Please note, should re-registration forms not be returned to Ms. Miljour, your child will not officially be registered to attend PW next year and a parent/guardian will be required to present themselves at the school in order to re-register\**

# How To Complete Your Course Selection Form

## Students Entering Secondary V 2014-2015

Selecting courses for the next school year is a very important decision, and should be thought about carefully and discussed by both students and parents. In order to begin, fill out your name, date of birth, and whether or not you will be attending Philemon Wright in 2014-15.

Follow the instructions below to properly fill out each of the corresponding sections of your form:

- 1. Compulsory Courses** – Check the box for one (1) program, the General English program or the Enriched French program. In order to choose or remain in the Enriched French program, a student must be maintaining a 70% or higher average in his/her Grade 10 French/Français course. Eligibility for the program will be determined on a case-by-case basis. In addition, indicate with a checkmark whether or not you are interested in being considered for the Enriched English Language Arts course. If you choose “Yes”, please obtain a signature from your Grade 10 English teacher before submitting your form.
- 2. Math Pathway** – Check the box for one (1) pathway, the Cultural, Social & Technical or the Science Math pathway.
  - **If choosing CST Math:** The Cultural Math course allows students to continue at the CEGEP/college level in programs that are not Math/Science related (Social Sciences, the Arts, etc.), and is the minimum requirement for graduation. Students not wishing to study in Math/Science programs or who have struggled with Math previously are recommended to choose the Cultural Math course. Students who have completed Grade 9 Math with a final result below 76% are required to select Cultural Math.
  - **If choosing Science Math:** The Science Math course is a pre-requisite for Math/Science related programming at the CEGEP/college level. Students wishing to continue in post-secondary programs that require advanced Level IV & V Math are recommended to take the Science Math option. Students who wish to go into Science Math must have completed Grade 9 Math with a final result of 76% or higher, and speak to their current year’s Math teacher about a recommendation before choosing Science Math 406. Students must have successfully completed Science Math 406 in order to move on to Science Math 506.
- 3. Compulsory Arts Courses** – Place a number from 1 to 3 in the boxes for each of the compulsory Arts courses in order of preference (1 being your most preferred, 3 being your least). It is important to note that in order to obtain a secondary school diploma in Quebec, the student must receive credit for a Secondary IV Arts elective. Please see descriptions attached for further details.
- 4. Elective Courses** – Place numbers from 1 to 5 beside your five top course choices (1 being your most preferred, 5 being your least). Please see descriptions attached for further details. Each Grade 11 student will be scheduled for two (2) elective option courses, provided he/she has successfully completed all graduation requirements in Grade 10. Students will automatically be registered in one or both of the “repeat” options (Sec. 4 History and/or Science) if they did not complete the course. These courses will take the place of one or both of the students’ option courses. Please note that in order to be eligible to choose Chemistry and/or Physics as an elective course, the student must have successfully completed the General Science/Bridging Science of the Environment pathway in Grade 10.

Once you have completed all four sections of the form, please sign (and have your parent/guardian sign) and return your completed form to your homeroom teacher (Day 5) before March 20<sup>th</sup>, 2014.

If you have any questions about the enclosed form or information, please see Ashley Smith, Academic Counsellor, in Room 123 or contact her by e-mail at [asmith@wqsb.qc.ca](mailto:asmith@wqsb.qc.ca).

# Math Pathway Course Descriptions (Secondary V)

## Frequently Asked Questions Regarding the Mathematics Courses:

**1. Which math option do I need to graduate?**

Students require either of the two Secondary IV math courses to graduate.

**2. Can I get into CEGEP with either math options?**

Yes, however you must keep in mind that some programs require the Science Math as a prerequisite (ie. Pure & Applied Sciences, Commerce, Computer Science, Engineering, etc.). You are advised to make an appointment with Mr. Rosseel in Guidance to discuss post-secondary options.

**3. Can I switch from one math to another after making my course selection this spring?**

Students have until the “drop date” deadline (Friday, September 27<sup>th</sup>) to change from one math pathway to another. Following that date, students must remain in the course they have selected for the remainder of the year.

**4. Is one math option more difficult than another?**

While both pathways provide challenges, overall, the concepts studied Science Math are more complex than those studied in Cultural, Social, & Technical Math; hence, the recommended prerequisite that students demonstrate competency of at least a 76% in Math 306 in order to select Science Math 406, and only students who have completed MSC406 are eligible for Science Math 506.

## Grade 11 Math: Cultural, Social, & Technical Mathematics Option

The *Cultural, Social and Technical* option allows students to build on their knowledge of basic mathematics. Specifically, it prepares them for studies in the arts, communications, the humanities and the social sciences.

Students use their competencies and mathematical knowledge in different contexts related to the broad areas of learning. They are encouraged to look at the world from a critical, ethical and aesthetic point of view. They examine the social, economic, artistic, technical or, on occasion, scientific situations that they will encounter in their personal and working lives. For instance:

- health and well-being: living habits, nutrition, how the body works, health care, physical activity and sports
- consumer rights and responsibilities: personal finances, constraints related to production, costs related to consumption, design, advertising
- environmental awareness: planning (organization, plan, structure), resource management, biodiversity, pollution, population growth or decline
- career planning and entrepreneurship: design, planning, organization, market studies
- media literacy: presentation of information, comparison of presentations on the same topic, appreciation or creation of different works of art and media images
- citizenship and community life: social choices (voting procedures), equity and justice, cultural diversity, opinion polls...

## Grade 11 Math: Science Mathematics Option

The *Science* option is intended for students who seek to understand the origin of different phenomena and how they work, as well as to explain them and make decisions that pertain to them. Students learn to develop formal proofs in situations where there is always a need to confirm a truth. By focusing on the properties of mathematical objects, this option places greater emphasis on students’ capacity for abstract thinking in that they are required to perform more complex algebraic operations. The emphasis is on finding, developing and analyzing models within the context of experiments mainly related to different scientific fields. Students who choose this option develop strategies and acquire an academic background that specifically enables them to pursue their studies in the hard sciences or to perhaps eventually specialize in research.

The variety of situations that may be studied can focus on such things as:

- contexts involving biology or economics and that can be represented by exponential functions (e.g. cell multiplication, epidemics or the study of different financing rates and terms)
- cyclical occurrences that can be represented by periodic functions (e.g. tides, the seasons, physiological data, mechanisms that generate movement, the changes in a person’s position or a pendulum in motion)
- demographic or biological contexts involving estimates, simulations and statistics (e.g. determining the quantity of fish in a body of water over a given period)
- contexts associated with physics and involving the concepts of slope, distance, speed and vector. For example:
  - analyzing situations involving successive displacements, forces, speeds or velocities
  - determining speed or velocity by analyzing the slope of a graph representing distance as a function of time
  - finding the distance travelled by calculating the area under the curve
  - comparing the slope of a line that intersects a curve with the average speed of a moving object in a given interval

Other mathematical concepts may come into play and pertain to such fields of activity as surveying, topography, geodesy, biology, biometrics, optics, mechanics, electricity, chemistry, meteorology or computer science.

# PHILEMON WRIGHT HIGH SCHOOL

## STUDENTS ENTERING SECONDARY 5

### COURSE SELECTION FORM 2014-2015

- Final placement in all courses will be determined by the school.
- If you wish to withdraw from the Enriched French program, you must do so by March 20<sup>th</sup>, 2014.
- All option/advanced/enriched French classes offered are subject to sufficient numbers to warrant a class.



STUDENT'S NAME: \_\_\_\_\_ D.O.B.: \_\_\_\_\_

(PRINT YOUR NAME)

We, the student and parent, understand that every attempt will be made to schedule the preferred option, however the school cannot guarantee the numbered choices will be honored. **Friday, September 26<sup>th</sup>, 2014 will be the last day for option request changes. If the first choice is scheduled, no course change will be granted.**

- I WILL BE ATTENDING PHILEMON WRIGHT for the 2014-2015 school year.
- I WILL NOT BE ATTENDING PHILEMON WRIGHT for the 2014-2015 school year. (Reason: \_\_\_\_\_)

\_\_\_\_\_  
STUDENT SIGNATURE

\_\_\_\_\_  
PARENT/GUARDIAN SIGNATURE

### 1. COMPULSORY COURSES (choose one)

*Note: Any student who fails a compulsory course at the Secondary IV level will be required to repeat that course, and may jeopardize his/her graduation status.*

- GENERAL ENGLISH PROGRAM**
- ENG536** English Language Arts \*
- ETH502** Ethics & Religious Culture
- FRB504** French Second Language
- CON504** Contemporary World
- PED502** Physical Education & Health

- ENRICHED FRENCH PROGRAM**  
[requires 70%+ final result in Grade 10 French course(s)]
- ENG536** English Language Arts \*
- ETH502** Ethics & Religious Culture
- FRI506** Français Enrichi
- CON504** Contemporary World
- PED502** Physical Education & Health

\* I am interested in being considered for the Sec. V Enriched English course (check one):  **YES**  **NO**

English Teacher recommendation (must obtain signature):  
\_\_\_\_\_

### 2. MATH PATHWAY (choose one)

- MCU404** Cultural, Social & Technical Math (Sec. 4)  
[students who completed Grade 9 Math in their Secondary 4 year are recommended to select Cultural Math 404]
- MSC426** Science Math (Sec. 4)  
[students who completed Grade 9 Math with a 76% or higher or have completed Grade 10 Cultural Math may select Grade 10 Science]
- MCU504** Cultural, Social & Technical Math (Sec. 5)  
[students who completed MCU404 or MSC406 in their Secondary 4 year may select Cultural Math 504]
- MSC506** Science Math (Sec. 5)  
[students must have completed Grade 10 Science Math]

### 3. COMPULSORY ARTS COURSES

(Number 1-3 in order of preference)

- ART502** Visual Arts
- DRA502** Drama
- MUS502** Music

### 4. ELECTIVE COURSES (number 1-5 in order of preference, each Sec. V student receives two elective courses)

- ART504** Advanced Visual Arts
- BIO534** Biology
- CHE504** Chemistry ‡
- DRA504** Advanced Drama
- HEC552** Home Economics
- HEF544** Home Economics (in French)
- HIS544** 20<sup>th</sup> Century History
- JEF544** Journalism & Media Studies (in French)
- JEP574** Journalism & Media Studies
- LAW804** Business & Criminal Law
- LEA544** Leadership, Mentorship & Peer Tutoring
- MUS504** Advanced Music & Music Technology
- PEM544** Advanced Physical Education
- PHY504** Physics ‡
- SPA504** Spanish Language & Culture
- STR406** Science & Technology 406 (repeat)\*\*
- HIR404** History of QC & Canada 404 (repeat)\*\*

‡ Students are required to have successfully completed the General Science/ Bridging Science of the Environment pathway in order to be eligible.

\*\* Students will automatically be registered in one or both of these options if they do not successfully complete these Sec. 4 graduation requirement courses. These courses will take the place of one or both of the student's elective courses.

**THIS COMPLETED FORM MUST BE RETURNED TO YOUR HOMEROOM  
TEACHER (Day 5) OR MS. MILJOUR IN ROOM 129 by March 20<sup>th</sup>, 2014**

# Elective Course Descriptions (Secondary V)



Below are the elective course options offered to Philemon Wright students in their Sec. V year. For the purposes of better informing students and parents of the CEGEP and post-secondary areas of study, and the options offered to Philemon students in these domains, options have been divided into categories in the listings below. For additional information on CEGEP, college & university pre-requisites and entrance requirements, please consult your Academic Counsellor.

## Sciences

CEGEP Science programs provide students with a balanced education, equipping them with a solid grounding in mathematics, chemistry, physics, biology and earth sciences. These programs are for students interested in pursuing studies and/or careers in Pure and Applied Sciences (agriculture, biology, mathematics, architecture, chemistry, engineering, geology, etc.) or Health Sciences (dentistry, medicine, nutrition, physiotherapy, dietetics, optometry, veterinary science, etc.). Philemon Wright offers the following electives within this domain:

### **BIO534 Biology**

Students will study the properties of living organisms, biochemistry, genetics, evolution and ecology. This course will involve some laboratory work. Biology 534 is a prerequisite for some Ontario College science-related career programs; however it is not required for any CEGEP programs.

### **CHE504 Chemistry** *\*note: this course is a required pre-requisite for CEGEP Science programs\**

To take this course, students must have passed Grade 10 Science & Technology and Science of the Environment (bridging). In this course, students will study gases, energy and rates of chemical reactions along with chemical equilibrium reactions. Relationships among science, technology, society and the environment are stressed.

### **PHY504 Physics** *\*note: this course is a required pre-requisite for CEGEP Science programs\**

To take this course, students must have passed Grade 10 Science & Technology and Science of the Environment (bridging). In this course, students will study the nature of light, optical devices, basic motion and mechanics, including work and mechanical energy.

*\*Note: Students who choose Chemistry & Physics should be registered in Science Math, as it is the pre-requisite Math course for CEGEP Sciences\**

## Liberal Arts & Languages

The aim of a CEGEP Liberal Arts education is to develop the skills of reading, writing and critical thought, through understanding the ideas and creations that have shaped our culture and civilization. If you are excited by reading and enjoy exploring ideas, discussing them, and writing about subjects such as anthropology, philosophy, history of art, film studies and logic, Liberal Arts may be for you. Philemon Wright offers the following electives within this domain:

### **JEP574 Journalism & Media Studies** (also offered in French)

To take this course, students must have passed Sec. IV English. Students will examine techniques for information gathering, writing, photography and editing relevant to publication. Through understanding the principles of effective communication, students will analyze contemporary issues and organize material for public delivery. There is a heavy media focus in this course, offering students the chance to analyze, discuss and create various media works. This course will also include components of advertising and film studies.

### **SPA504 Spanish Language & Culture**

This course builds on its Grade 10 predecessor, however welcomes students who are learning the language for the first time. The course stresses a conversational approach, and students develop their grammar and vocabulary skills in everyday oral dialogues. Studies will also include Spanish culture and Spanish countries.

### **ENG536 Enriched English Language Arts** (offered as a core subject, not as an elective, replacing general E.L.A.)

The enriched Secondary V English course is offered to motivated and talented English students. Reading, writing and presentations by students demand more time and effort than the regular Secondary V English workload. Students who are creative, reflective and motivated belong in the enriched program and are encouraged to show initiative beyond the boundaries of the course. Placement in this course is also based upon teacher recommendation and previous English Marks.

## Creative Arts

There are a variety of CEGEP programs in the Creative Arts domain that prepare students for numerous university programs in areas such as Art Education, Art History, Communications Studies, Film Studies, Professional Theatre, Music Production, and Music Performance among others. Philemon Wright has very strong programming in the Arts, and offers the following electives:

### **DRA504    Advanced Drama**

Students enrolled in this course should also choose Drama as their compulsory Arts option. Students' acting and directing skills will be further advanced through scene studies, skits, improvisation, creative and dance-oriented drama, the making and using of masks, attending plays and participation in major productions. Also, occasional lunch period and/or after school rehearsals will be expected.

### **MUS504    Advanced Music & Music Technology**

In this course, students will learn to use music technology software to record, edit and mix music and sounds to create their own unique compositions using music technology software such as Mixcraft, Garage Band and Noteflight. Students will experiment with recording, editing and mixing their own compositions or loops, connecting musical instruments to computers to record their music, using keyboard controllers to easily write music on the computer, and using video editing and creating soundtracks, sound effects, and background music for movies, animations, presentations or shows. The course will also focus on teaching and reviewing basic composition and music theory skills (rhythm, note values, time signature, tonalities, riffs, melodies, motives, music styles and form).

### **ART504    Advanced Visual Arts**

This course focuses on the refinement of students' skills and knowledge in visual arts and expands on their knowledge of the connections between works of art and their historical contexts. By the end of this course, students will:

- Differentiate historical artworks by content, theme, style, techniques, and materials;
- Explain how compositions are altered by a change in design principles (i.e., contrast of lines versus contrast of colour);
- Describe the steps of the design process;
- Analyze the formal composition of an example of art work from personal and or historical works studied;
- Develop sketchbooks and or portfolio that documents their personal art process;
- Apply the creative process (i.e., perception, exploration, experimentation, production, and evaluation) in their work
- Have the opportunity to design and paint murals in the halls of Philemon Wright. Leave your mark!

## Social Sciences

Social Science is the study of all aspects of human life from various perspectives; this CEGEP concentration combines both general education with studies in specific disciplines within the Social Sciences. If you have an interest or curiosity about humanity, this is an exciting opportunity to learn more about human behaviour, social relationships and institutions. Graduates of a CEGEP Social Science Program will be prepared for university studies in fields related to law, education, psychology, social work and administration among others. Philemon Wright offers the following electives within this domain:

### **HIS544    History of the 20<sup>th</sup> Century**

To take this course, students must have passed Sec. IV History of Quebec & Canada. Students will examine aspects of European, American and Asian societies. Course objectives are to understand the interrelated events of the 20th Century, develop research and writing skills and ultimately develop a greater sense of the Canadian perspective.

### **LAW804    Business & Criminal Law**

Students will study the provisions of the major laws and regulations governing the rights and obligations of people in business and in civil and criminal matters, learn legal terminology, and explore strategies for asserting one's rights in society and in business matters.

### **LEA544    Leadership, Mentoring & Peer Tutoring**

To take this course, students must be prepared to complete an interview with the course teacher and an advisor/administrator. This course is designed to help students acquire the necessary skills to be leaders in the school community, and an opportunity to see if teaching/mentoring might be a viable option for them. Students enrolled in this course are expected to be actively involved in various school activities and functions. Students will be involved in mentoring and/or tutoring opportunities with Hadley students and the opportunity to assist individual teachers in a classroom or the Resource classes. Students may also be assigned to lunch-time activities and hall monitoring. Spaces in this option will be assigned based on dependability, maturity and academic achievement.

## Health & Wellness

Many students are becoming interested in the food preparation and Culinary Arts fields, as well as training/career options in nutrition and physical health and wellness. Philemon Wright also offers the following elective courses that focus on healthy lifestyle choices and training:

### **HEC554 Home Economics** (also offered in French)

This course will focus on the following areas of study: foods & nutrition (Kitchen Safety & Sanitation, Equipment, Knowledge of Nutrition Principles, Cooking Methods), consumerism (Brand Comparison, Food Labeling, Fast Foods, Homemade vs. Convenience), and self-management (Household Finances, Budgeting, Grocery Shopping, Healthy Habits).

### **PEM544 Advanced Physical Education & Health**

To take this course, students must have passed Sec. IV Physical Education with 85% or higher overall. This course includes cross-country skiing, weight training, badminton, fitness and camping, advanced training in the traditional individual and team sports, with exposure to leisure-time activities at the Sporthèque de Hull. Optional Outdoor trips may occur at an additional cost.

## Compulsory Arts Course Descriptions (Secondary 5)

Below are the descriptions of the compulsory Arts courses, of which each student must choose one (1):

### **ART502 Visual Arts**

This course provides students with opportunities to further develop their skills and knowledge in visual arts. Students will explore a range of subject matter through studio activities and will strengthen their practical skills. Students will experiment with a large variety of art materials, with which the art room at Philemon is well supplied. By the end of this course students will:

- Demonstrate the ability to take creative approaches with materials, tools, processes, and technologies in studio activities;
- Demonstrate the ability to review and evaluate the creative process they use, as well as the resulting artworks.
- Apply an understanding of the elements and principles of design to personal, historical, and contemporary art works;
- Demonstrate the ability to apply the creative process (i.e., perception, exploration, experimentation, production, and evaluation) in their work.

### **DRA502 Drama**

This course builds on the skills of Secondary IV Drama, through the exploration of voice, movement, character, skits, improvisation and performance. Students will develop an appreciation of and competence in the performing arts.

### **MUS502 Music**

This course will focus on three competencies: performing, appreciating and creating music. Using music as a tool of discovery, students will have the opportunity to deepen their understanding of themselves and their potential, assess/discuss/perform musical works, and experience community building and team work by playing in an ensemble and expand upon previously attained practical and theoretical musical knowledge. Assessment is ongoing and includes instrument comprehension, group performance, individual performance and musical theory.