



## Grade 11 Course Descriptions 2018-2019

### English

The grade 11 English language arts course, whose literary theme is the triumph of the human spirit, refines the students' abilities in reading, writing, speaking, and listening. In preparation for the year-end MEES provincial exam, the course focuses on the requirements of literary response, pre-writing strategies, peer editing and revising for the requisite genres of writing, e.g., planning, reflective, narrative, expository and persuasive. Students begin the year with a study of the LCC Reads text. During the school year, they are required to read two core novels, one complementary book, one play and a variety of poetry, short fiction and nonfiction. Several different modes of writing are taught, including various forms of the essay, short fiction, literary analysis and articles. College-level writing and rhetorical devices are stressed. The media component may include response to and production of a photo essay, personal narrative or website. Speaking and listening skills continue to be cultivated through informal and formal speeches, discussions, presentations, and seminars in a variety of formats ranging from literary analysis to current events. Students will be evaluated according to the three provincial competencies of talk, reading, and production.

### IB French: *Ab initio*

Le cours de langue *ab initio* est un cours d'apprentissage de la langue destiné aux élèves ne connaissant pas ou peu la langue. Il est construit autour de trois thèmes: individu et société, loisir et travail, et environnements urbains et ruraux. Chaque thème contient une liste de sujets permettant aux élèves de pratiquer et d'explorer la langue et de développer leur compréhension interculturelle. En développant leurs compétences réceptives, productives et interactives, les élèves développent leur aptitude à réagir et interagir de façon appropriée dans un certain nombre de situations de la vie quotidienne.

### IB: French B /Enrichi

Le cours de français B niveau moyen (SL) est un cours d'apprentissage d'une langue supplémentaire conçu pour les élèves ayant une expérience préalable de l'apprentissage de la langue française. Il met principalement l'accent sur l'acquisition de la langue et sur le développement des compétences linguistiques grâce à l'étude et à l'utilisation d'un éventail de supports écrits et oraux, allant des échanges oraux quotidiens à l'écriture de divers types de textes courants. Le cours est construit autour d'un tronc commun et d'options, qui favorisent

une perspective interculturelle. Le cours de français B (SL) cherche à développer la compréhension internationale, à susciter un intérêt pour les questions mondiales et à faire prendre conscience aux élèves de leurs responsabilités à l'échelle locale. Il vise également à développer une ouverture interculturelle chez les élèves, ce qui va également dans le sens de la relation entre le cours de langue et la dimension internationale. De plus, le programme de langue seconde enrichi sera enseigné en vue de l'examen du MEES à la fin de l'année

### **IB: French B : Accélééré**

Le cours de français B niveau supérieur (HL) est un cours d'apprentissage d'une langue supplémentaire conçu pour les élèves ayant une expérience préalable de l'apprentissage de la langue concernée. Il met principalement l'accent sur l'acquisition de la langue et sur le développement des compétences linguistiques grâce à l'étude et à l'utilisation d'un éventail de supports écrits et oraux, allant des échanges oraux quotidiens aux textes littéraires. Le cours est construit autour d'un tronc commun, d'options et d'œuvres littéraires, qui favorisent une perspective interculturelle. Le cours de français B (HL) cherche à développer la compréhension internationale, à susciter un intérêt pour les questions mondiales et à faire prendre conscience aux élèves de leurs responsabilités à l'échelle locale. Il vise également à développer une ouverture interculturelle chez les élèves. Le volet littéraire, quant à lui, distingue le niveau supérieur du niveau moyen. De plus, le programme de langue seconde enrichi sera enseigné en vue de l'examen du MEES à la fin de l'année

### **Français langue seconde, programme de base 11, IB B SL**

Dans ce cours, le programme de français base du ministère de l'Éducation et de l'Enseignement supérieur ainsi que le programme de IB B, niveau moyen seront travaillés en parfaite symbiose. Des compétences interactives, productives et réceptives seront développées à travers une étude contextualisée de la langue, des textes et des thèmes, de plus, la compréhension interculturelle et le plurilinguisme seront des objectifs primordiaux de ce cours. Les élèves seront également exposés à une vaste gamme de textes authentiques et réaliseront des travaux dans un éventail de contextes de communication. De plus, le programme de langue seconde enrichi sera enseigné en vue de l'examen du MEES à la fin de l'année.

### **Mathematics – Science Option (SN)/IB Mathematics SL/HL**

This course follows the mathematics curriculum of the ministère de l'Éducation et de l'Enseignement supérieur (MEES) for secondary cycle 2, year 3 (grade 11), with the addition of certain topics that our department feels necessary to adequately prepare our students for post-secondary studies in mathematics. This course covers a wide range of mathematical topics in algebra, geometry and functions, and is intended for students planning to pursue CEGEP studies in sciences and commerce. It is taught concurrently with the IB SL math course. The enriched

mathematics course follows the IB HL curriculum.

### **Mathematics – Technical Scientific (TS)**

This course follows the mathematics curriculum of the ministère de l'Éducation et de l'Enseignement supérieur (MEES) for secondary cycle 2, year 3 (grade 11), with the addition of certain topics that our department feels necessary to adequately prepare our students for post-secondary studies in mathematics. This course covers a wide range of mathematical topics in algebra, geometry and statistics, and is intended for students planning to pursue CEGEP studies in commerce and social sciences. Please note that this course may not be sufficient for students wishing to study commerce at university outside Quebec. This course is taught concurrently with the IB math studies course.

### **Mathematics – Cultural, Social, and Technical Option (CST)**

This course follows the mathematics curriculum of the ministère de l'Éducation et de l'Enseignement supérieur (MEES) for secondary cycle 2, year 3 (grade 11), with the addition of certain topics and project-based learning. This course covers a range of mathematical topics in statistics, probability, geometry and graph theory, and is intended by MEES for students planning to pursue CEGEP studies in social sciences and arts.

### **Ethics**

Grade 11 ethics focuses on “self and community.” The primary goal is to help students understand their role (and potential leadership influence) in the broader global community (within and beyond the school community). In the spirit of the character education model, an additional goal is to provide students with direction in the development of their value system to meet the demands of a diverse and ethically challenging world community. During the ethics course, students will be exposed to various post high school options, with a particular focus on CEGEP programs and Pre-U.

## **SCIENCE COURSES**

**(If you are planning to apply to a science program in CEGEP, both chemistry and physics are required)**

### **Biology**

This senior level biology course is designed to prepare students for Year II of the International Baccalaureate Diploma Programme. Detailed topics such as cell biology, membrane transport, organic polymers, DNA replication and protein synthesis are covered in relation to practical applications in society. The role of enzymes in chemical reactions is studied in connection to photosynthesis, cellular respiration and human physiology. Numerous systems of the human

body are explored. Students develop the skills necessary for lab design using a wide range of digital probes during experimentation.

### **Chemistry (Regular/SL)**

This senior level chemistry course follows the grade 10 science courses and provides the necessary background for those students who wish to continue their studies in science after high school. Emphasis in this course is on developing a deeper understanding of the concepts through application and experimentation. Concepts covered are stoichiometry, gas laws, thermodynamics, kinetics, equilibrium (including acids and bases), and electrochemistry. This course covers the full MEES curriculum, with some additional topics for IB SL students.

To register in this course, students must have an average of 78% or above in both grade 10 science (ST & EST) and mathematics (science option).

### **Chemistry (Enriched/HL)**

Students in the enriched program study the same material covered in the regular program but in greater depth with more time dedicated to experimental methods. This program emphasizes data collection, analysis of data and encourages experimental design. This course covers an enriched MEES curriculum, with some additional topics for IB HL students. To register in this course, students must have an average of 90% or above in both grade 10 science (ST & EST) and mathematics (science option).

### **Physics (Regular/SL)**

This course is a continuation of the science technology and the environment course taken in grade 10, and provides the necessary background for those students who wish to continue their studies in science after high school. It is an introductory physics course that encourages students to develop an understanding of concepts through experimentation. The program emphasizes the importance of the quantitative nature of science, experimental technique, communication, problem-solving and the place of science in the context of the human experience. This course covers the full MEES curriculum, with some additional topics for IB SL students. To register in this course, students must have an average of 78% or above in both grade 10 science (ST & EST) and mathematics (science option).

### **Physics (Enriched/HL)**

Students in the enriched program will cover the same material as the SL students with an additional emphasis on higher order problems. Additional topics in mechanics are covered, including circular motion, universal gravitation and momentum. Subject to time constraints, further IB topics such as thermal physics and/or electromagnetics may also be covered. To register in this course, students must have an average of 90% or above in both grade 10 science (ST & EST) and mathematics (science option).

## **SOCIAL SCIENCE COURSES**

**(Every student in grade 11 must take at least one social science course to meet graduation requirements)**

### **Economics**

This course takes an interdisciplinary approach to global economic issues of the Post-Cold War Era. It serves as an introduction to basic economic concepts, such as supply and demand, opportunity cost, banking, monetary flows, fiscal policy, monetary policy, international trade, exchange rates, and economic development in developing countries. Topics to be studied include microeconomics, macroeconomics, globalization, resource management, sustainable development, international trade, and the global economy. The content of this course will appeal to students with an interest in economics, economic development, international affairs and political science, as well as serve as a useful base for those wishing to pursue studies in international development, commerce and/or social sciences at the post-secondary level.

### **Global Issues/Politics**

This course will acquaint students with the main issues that confront our planet today. Students will discover the great inequalities that exist among people of our world by studying the major issues confronted by our global citizens. With our “global village” getting smaller, it is essential that contemporary students become aware of world concerns relating to population, resources, disease, the environment, economic development, political conflict, and cultural controversy. They will learn how to identify and analyze issues, recognize causes and consequences, and suggest workable solutions to these concerns.

## **PHYSICAL EDUCATION**

### **Physical and Health Education**

The physical education program at LCC is dedicated to the development of mind, body, and heart. Based on the IB Creativity, Activity, Service (CAS) programme, the grade 11 year in P.E. is focused on developing lifetime sport interest and abilities, as well as habitual exercise practices, through choice and participation. Students are also introduced to various international sports. Proactive leadership and cooperation with teachers and peers are qualities students should always be trying to develop. Each student must plan, accomplish, and reflect on a minimum of 50 hours of activity. This activity may coincide with the Creativity and Service of the CAS. The P.E. staff offers choices for the students to engage in their CAS plans, as well as support and guidance in selection of viable options.

## **ARTS AND LEADERSHIP COURSES**

### **Advanced Level Art**

Students who elect to take art in grade 11 must have a keen interest and strong ability, as this course requires concentration and extra effort outside of class time. Students will be exposed to a variety of media, art techniques and visual concepts. Over the course of the year, the students will come to a deeper level of understanding of the creative process, gaining mastery over several art media. They will refine studio skills to discover ways in which art becomes a powerful tool of communication. Critical analysis will be sharpened for judging the student's own artwork and the artwork of others. There is a strong focus on understanding and applying the creative process to produce original works of art. Each student will produce a body of studio work for exhibition. However, there is also a required drawing component in each unit of study that places a strong emphasis on developing and strengthening drawing skills in a variety of drawing media and styles. The goal of practical work is to provide a portfolio containing examples of work in various media. Interest in specific media is encouraged but a generalist approach is considered the best preparation for those who may wish to pursue art in CEGEP or university. Successful completion of grade 10 art or teacher approval based upon a portfolio submission is normally a prerequisite.

### **Personal Growth and Leadership**

The grade 11 personal growth and leadership course focuses on establishing lifelong habits of personal growth and wellness as initial steps towards leading for others. The course builds on the skills and values that have been emphasized in the LCC experience and our school mission of developing mind, body and heart. Students are expected to demonstrate personal responsibility, be reflective and ready and willing to share their skills. The concept of coaching is central to the course. Students will enter into coaching relationships with teachers, peers and younger students. The personal growth project is the heart of the course. Students will plan a personal project that encompasses a physical training goal and an academic or personal/social goal. A majority of class time is devoted to the project: goal setting, physical training, journaling progress, personal testing and academic research, all directed towards goal achievement. The other significant course component consists of leading the grade 7 sport education classes. Students are expected to develop strong connections with class peers and with the grade 7 students.

### **Film**

In this film course, students will study various genres of film throughout history, reviewing and analyzing famous scenes and the constructs and theory that were behind their production. Students will also be producing their own short film throughout the course of the year (ten-

minute duration). Film genres to be explored include full-length feature films, short films, silent movies, animations, stop motion, special effects, and much more. Students will learn the theoretical and technical aspects of analyzing, writing, filming and editing. A number of hands-on production assignments will accompany each unit (e.g., producing a stop motion film, an animation, a three-minute special effects film, etc.). The best work will be published online (LCC TV), and students are encouraged to submit their films to festivals, including SIFF.ca, hosted by LCC. This course is compatible with IB film (year 1) and, as such, IB students may continue with the second part of the IB film course at the Pre-U level. All course content is online, be it video tutorials or course notes (see [www.siff.ca](http://www.siff.ca)).

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## **ART ACTIVITY**

(All students entering grade 11 need to select an art activity)

### **Acoustic Guitar**

For this course there is both informal individual instruction and group instruction. Students are allowed to play guitar independently and progress is monitored and expected. All levels are welcome and guitars are provided.

### **Concert Band**

Students must have previous musical experience to take this course. Enrollment is predicated on having passed grade 10 instrumental music, or having the permission of the music faculty. Students work on developing their musical skills in a wind ensemble setting and are expected to additionally participate in band rehearsals on Mondays after school.

### **Design & Innovation - How to make almost anything (Part 2)**

This class continues where the grade 10 class left off and further introduces students to the Fab Academy model. Students are expected to build a completely digitally fabricated object or portfolio piece including a website with instructions on how it was made. These projects will be shared on our Fab Lab website for other Labs to learn from and will be presented at the year-end design fair. Projects can range from textiles, to electronics, programming, décor items and more. This course promises many opportunities to learn new creative skills for motivated students with all interests as they work towards a refined portfolio that demonstrates new skills they have acquired in the Fab Lab.

### **Destiny Quebec Global Issues Conference**

Senior School students organize and host an annual youth conference that engages students

and provides a forum to discuss relevant world issues. Its purpose is to raise students' awareness about political, social, economic and personal challenges facing youth and our society in general. Students have the opportunity to express their views and concerns while considering different views on the future of Quebec, Canada and the global community.

### **Grade 11 Play**

Students undergo the exciting journey of selecting, rehearsing and performing a play. The focus is on organizing all aspects of the play. All students audition for parts, although a director and lighting/sound person is also needed. There are two after-school commitments for dress rehearsals in April and a final evening performance.

### **Photography/LCC TV**

Lights, action, camera! Students can participate in a variety of photography activities and video production opportunities that are suited to their interests.

### **The Wire**

*The Wire* is a visual arts option in grade 11, although any student may contribute articles. Students hone their writing skills by creating news articles, editorials, reviews and features. They also learn how to conduct interviews, edit effectively and design the layout.

### **Visual Arts**

Students can produce work in this course that they would be proud to display irrespective of their perceived artistic abilities. Activities range from: poster design and advertising, painting – layered tempera technique, art appreciation, Op art abstract design using pen and ink, and/or printmaking.

### **Yearbook**

Being part of the yearbook team is a great way to make memories. Participants can showcase their talent in writing, photography and design, and learn invaluable skills in the areas of organization, teamwork, computer technology and communication. The yearbook tells the story of the people and events that made the school year memorable.