



Grade 10 Course Descriptions 2018-2019

English

The grade 10 English language arts course, with literary themes of independence, self-discovery, the family and maturation, continues to focus on the students' abilities in reading, writing, speaking and listening. Students begin the year with a study of the LCC Reads text and the second book selected for summer reading. During the school year, students are required to read two core novels, one complementary book (which may be used as the literature circle text), one play and a variety of poetry, short fiction and nonfiction. Language skills continue to be stressed and developed through a writing program that covers the major modes of expository expression, e.g., narration, description, exposition and argumentation. Research paper techniques are taught, as students are introduced to scholarship and research, and they complete a 1,500-2,000-word research essay. Speaking and listening skills are cultivated through informal and formal speeches, discussions, presentations and seminars. Students are evaluated according to the three provincial competencies of talk, reading and production.

Enriched English/PREP Liberal Arts

The grade 10 enriched English program is designed to maximize opportunities for LCC students who have demonstrated an aptitude for and interest in the study of English. Reading primary sources in translation and in English, students immerse themselves in a rich world of dynamic ideas, recurring concerns (e.g., selfhood, reason, religion, science, secularism, political organization, rights) and enduring art. The hope is that students will come to appreciate the broad sweep of these ideas and styles. Marrying reading with writing, the course is firmly rooted in textual analysis, underpinned by student dialogue. Students are expected to read widely, both in class and at home, and to undertake a thesis-driven essay. The ability on the part of the student to assimilate new content independently is assumed, as is a willingness to forego constant teacher feedback. Like all grade 10 students, students in the course must read the LCC Reads title over the summer and deliver a formal speech in line with the demands of the QAIS public-speaking competition.

Classe d'accueil (Welcome Class)

Les nouveaux arrivants au Québec doivent obligatoirement suivre des cours de français. Le

cours d'accueil propose des activités adaptées aux non-francophones. Les trois compétences suivantes – communiquer oralement dans des situations variées, lire et écrire des textes variés en français et s'intégrer au milieu scolaire et à la société québécoise – seront développées tout au long de l'année pour répondre aux attentes du ministère. Le vocabulaire et les expressions idiomatiques seront au cœur des échanges et permettront aux élèves d'apprécier cette langue. Finalement, les élèves de ce groupe seront capables à la fin de l'année de communiquer par des phrases simples leurs idées et leurs besoins.

Français langue seconde, programme de base

Le programme de base vise une connaissance fonctionnelle de la langue, c'est-à-dire la capacité d'interagir en français, tant oralement que par écrit, avec différentes personnes, qu'il s'agisse d'amis, de pairs, de commerçants ou, éventuellement, d'employeurs francophones. Les habiletés de communication développées dans le cadre de ce programme constituent des outils transférables qui permettent à l'élève de participer à la vie de la communauté francophone au Québec.

Français enrichi

Ce cours enrichi de français langue seconde s'adresse aux étudiants qui parlent bien la langue française. Il vise à améliorer la compréhension de lecture, la production écrite et l'expression orale chez l'élève. Tout d'abord, l'élève sera amené à exprimer oralement sa pensée critique sous différents formats : débats, présentations, exposés, critiques, tables rondes, discussions, etc. Ensuite, pour le volet lecture, il sera guidé vers une compréhension approfondie d'une variété de textes. L'accent sera mis sur la technique d'inférence et sur la prise de notes. Finalement, l'élève sera invité à rédiger des textes variés en utilisant une syntaxe, un style et un vocabulaire approprié. Le texte d'opinion occupe toutefois la place la plus importante en 10^e année puisqu'il amorce la préparation à l'examen du MEES l'an prochain.

Français accéléré

Le cours de français langue seconde accéléré s'adresse à des élèves qui ont une grande maîtrise de la langue française tant au plan de la lecture que de l'écriture. L'analyse de textes ainsi que la grammaire sont au cœur du programme. En effet, les élèves devront produire différents types de textes notamment argumentatifs, narratifs et explicatifs, à partir des lectures qu'ils auront travaillées. La communication orale sera travaillée systématiquement lors des présentations devant la classe et lors des discussions de groupes. Les évaluations couvriront l'ensemble des compétences tout au long des étapes pour amener les élèves à devenir à l'aise dans leurs échanges en français. De plus, nous portons une attention particulière au texte d'opinion puisqu'il sera l'objet de l'évaluation uniforme du MEES l'an prochain.

Français Programme « PREP » Arts libéraux

Le cours de français avec option PREP (Programme enrichi/Enriched program) requiert une bonne connaissance de la langue française et s'adresse à des élèves qui veulent repousser les limites de leurs apprentissages en sciences humaines et en littérature, tout en développant leur pensée critique. Les élèves doivent lire de nombreux extraits d'œuvres littéraires canadiennes-françaises afin de participer aux discussions en classe. Ce cours se veut un survol de la littérature canadienne-française depuis la fondation de l'Amérique jusqu'à nos jours. Il vise à initier les élèves au développement de la pensée française à travers les siècles et à travers certains auteurs qui ont marqué leur époque.

Mathematics – Science Option (SN)

This course follows the mathematics curriculum of the ministère de l'Éducation et de l'Enseignement supérieur (MEES) for secondary cycle 2, year 2 (grade 10). Elementary algebra is continued, including an in-depth look at functions and relations, factoring and applications, the exponential laws, systems of equations involving two variables of the first degree, roots, radical expressions, quadratic functions and their graphs. Heavy emphasis is placed on the role of parameters applied to a variety of functions. Statistics, both Euclidean and analytical geometry, similar figures and trigonometry are also studied. Students are encouraged to formulate conjectures and demonstrate their validity, or lack thereof, using algebraic and geometric techniques.

Enriched Mathematics

This course follows the mathematics curriculum of the ministère de l'Éducation et de l'Enseignement supérieur (MEES) for secondary cycle 2, year 2 (grade 10) in a compressed time frame to provide additional material from the grade 11 course as well as supplementary topics for students who are more advanced in mathematics. The students in this course also participate in many national math contests.

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 2 (grade 10). This course is designed for students planning to pursue CEGEP studies in the social sciences, languages, arts, communications or certain vocational and technical programs. The CST option is aimed at helping students to develop mathematical literacy so that they can appreciate the connections between mathematics and the other aspects of culture as well as its contribution to the development of society. This option provides students with tools that help them to increase their capacity for analysis, consider different possibilities, make informed decisions, support their reasoning, and take a position with respect to various issues. The use of technology is an

integral part of this course. The graphing calculator (TI-83 or TI-84 family) is used frequently to investigate and test hypotheses. Computer software and/or interactive websites are used at times to provide a better visual representation of the concepts and to gather real-life data for modeling and analysis. Technology is never used as a replacement of algebraic methods, but rather as an enhancement of the understanding of mathematical concepts.

Physical and Health Education

The physical education program at LCC is dedicated to the development of mind, body, and heart. The grade 10 year in P.E. is one of continued transition from the skill development orientation of Middle School to the lifetime-sport orientation of the Senior School P.E. program. Students are also introduced to various international sports. Leadership and increased awareness and consideration of peers are qualities students should be developing. The year begins with an outdoor unit in touch football, ultimate disc, and golf skills. During this time, students are training for the mile run assessment of aerobic fitness. Through the winter months, grade 10 students are engaged in activities such as dance, volleyball, badminton and fitness training, which includes a full yoga unit. They are expected to do a report on their fitness goals and develop a personalized program. The Fitnessgram PACER test is administered to assess aerobic fitness, and then in the spring classes move outdoors to continue the rotation of football, ultimate Frisbee and golf, and finally softball. All grade 10 students also complete Basic Heartsaver CPR training.

Ethics

Grade 10 ethics focuses on “the local community.” One objective is to help students understand their roles as members of a wider community. The Youth and Philanthropy Initiative forms a major part of this course. Students will learn about philanthropy and charitable, grassroots organizations. They will then choose a charity, volunteer there, and make a detailed presentation about the effect this organization has on the local community. They will also be encouraged to reflect on their learning.

History and Citizenship

The history of Quebec and Canada (part II) is a compulsory course that constitutes the second half of a two-year history and citizenship course mandated by the Quebec Education Plan. Relying on important content knowledge and skills developed from grades 7-9, students revisit historical phenomena studied in grade 9 from a more thematic and conceptual perspective. Less emphasis is placed on chronological history; instead, students develop the ability to make synchronic linkages with similar phenomena at various times and places throughout history. Special emphasis is placed on the close analysis of primary historical documents, the development of reasoning skills, thesis development and effective communications skills.

Science and Technology (ST) and Environmental Science and Technology (EST)

The two levels of this course – the ministry course (ST) and the environmental course (EST) – are taught simultaneously in an integrated form. Students are provided with a general introduction to selected topics in chemistry, biology and physics, focusing on the nature of matter and energy and their impact on the world and society. Every effort is made to develop an understanding of concepts through investigative activities, the study of technological objects, and the discussions of experimental evidence. Upon successful completion of these two courses, students have the pre-requisites to enrol in the science options offered in grade 11. This course is designed to help students prepare for the ministry science exam (ST) in June.

Enriched Science and Technology, and Science, Technology and the Environment (MC)

Students in the enriched program course follow the grade 10 science and technology, and science, technology and the environment courses, with additional time spent in the fields of chemistry and physics. Two physics and chemistry specialists teach the course. Structured laboratory work is an integral part of both classes. Students are encouraged to learn through experimentation and to look critically at the data they collect. This course is geared towards students excited about the sciences who would like to enrich their understanding of the material presented at the grade 10 level. Students interested in pursuing the HL IB level courses in chemistry or physics are encouraged to apply. Enrolment into the program is limited and is based on grade 9 math and science grades.

OPTIONAL COURSES

Art (Prerequisite: Grade 9 Art)

This course builds on the grade 9 course and is designed for students of all levels of interest and ability in art. The course is also designed to help prepare students for the International Baccalaureate Art Programme, both standard and higher levels. There is a strong emphasis placed on understanding and using the creative process in art making. Students continue to gain exposure to a wide variety of techniques and media, and to achieve a sense of personal satisfaction and discovery. Their technical abilities and their capacity to visually communicate and express ideas and feelings are further extended. Drawing exercises and art history research assignments will be incorporated into each unit of study and based on the practical work done in class. Critical analysis will be explored and encouraged for judging the student's own artwork and the artwork of others from historical, cultural, aesthetic, social, and psychological perspectives. Successful completion of grade 9 art is normally a prerequisite.

Music (Prerequisite: Grade 9 Music)

This course requires three years of experience on a wind or percussion instrument and an ability to sight-read music at a 3.5 band grade level. Students taking this course will play in the Senior Concert Band and will represent Lower Canada College in competitions, concerts, recordings, musicals, and important events. Students are expected to perform at a high level and work on developing refinement to their playing, both technically and musically.

Drama (Prerequisite: Grade 9 Drama)

This course is a more advanced approach to theatre studies. Students explore dramatic exercises to increase their self-awareness, capacities, self-control, and perception of others and of the world. Creative writing is at the forefront; students write and perform monologues and original pieces of children's theatre inspired by children's artwork. Students also explore mime, neutral mask and ritual movement as well as an intensive acting-for-film unit of study. The course includes a theoretical study of skills and techniques used in theatre, such as lighting and sound, set design and play production. Grade 9 drama is usually a prerequisite for entry to this course. However, it is essential that a student have a genuine interest in undertaking a voyage of discovery in theatre.

Spanish

This is an intermediate course where students develop their vocabulary and their ability to communicate and read and write in Spanish. Oral communication will focus on expression and comprehension, while written communication will focus on reading and writing. The course content will include aspects of school and work, future plans and events, shopping and eating out, talking about the past, the weather, my social life, my childhood, and Hispanic culture.

Broadcast Journalism

Broadcast journalism is a course that integrates various disciplines, including journalistic writing, video editing, special effects software, and technical aspects of using video and SLR cameras. Students play a major role in tailoring this course to their own interests, as they will choose topics to investigate that are of interest to them, thus deepening their knowledge within a chosen subject area. During the course of the year, students will produce a five- to seven-minute documentary, as well as an investigative news report (five to seven minutes) that will include outside interviews with experts, and an in-school 90-second video for LCC TV. All work could be published on LCC's website and YouTube. All course content is online, be it video tutorials or course notes.

Computer Programming

This course is designed to provide students with an experiential, hands-on course in computer programming. Conceptually, the course explores the fundamentals of programming languages examining concepts, such as control flow, strings and data structures. The first part of the course introduces students to object-oriented programming with Labview and the engineering of autonomous robots. The second part of the course introduces students to coding with Python. Finally, in the latter part of the year, students are challenged with a design project that integrates coding in the language of the student's preference. All course content is online, be it video tutorials or course notes. As such, beginners with no experience and advanced coders may progress at a pace that is suited to their needs.

Design & Innovation – How to make most anything

This class is modeled after the Fab Academy, an MIT-based course which teaches students how to use a Fab Lab to make just about anything. Biweekly assignments guide students through different machines and processes, including digital embroidery and textiles, electronics design, 3D printing, and more. While students work through the weekly exercises, they will simultaneously develop a final project that will be presented at the LCC Design & Maker Fair in May. This course is for students interested in the arts or sciences and gives them a chance to come up with innovative solutions for potential new products, ideas, or creative expressions. Students must be self-motivated, willing to collaborate, and share ideas within the Fab Lab Network. They will be evaluated on their ability to conduct regular documentation through a website demonstrating their process and the evolution of their projects as they tackle new skills.

Note In this course, students will be exposed to various tools and professional machinery where safety and proper decorum are required. Students will be trained to use this equipment and will be responsible for adhering to lab rules.

Digital Media Communications

This media literacy course is designed for students who wish to develop their analytical skills, creative talents and technical knowledge. An interest in creating computer-generated media is an asset. Course objectives include the development of:

- A community of practice using social networking tools
- Critical thinking skills through class discussions and writing assignments
- Effective design skills through instructional and graphic design projects
- Technical skills with programs such as iMovie and Photoshop