



Accelerated and Upgrading Course Descriptions

Canadian & World Studies

CGC1DR – Geography of Canada, Grade 9, Academic (1.0 credit)

This course uses a variety of frameworks, including ecozones and principles of physical, human, and economic geography, to explore the distinct and evolving character of Canada's geography. Students will investigate the interconnections between the environment and human activities in Canadian ecozones in order to understand Canada's diversity and role in the world.

CGC1PR – Geography of Canada, Grade 9, Applied (1.0 credit)

This course draws upon students' everyday experiences and uses a variety of frameworks, including ecozones, to help students learn about the geography of Canada and the country's place in the global community. Students will investigate the interconnections among the country's landforms, climate, soils, plants, animals, and human activities in order to understand Canada's physical character and diversity and various kinds of interactions.

CHC2DR – Canadian History in the 20th Century, Grade 10, Academic (1.0 credit)

This course explores Canadian participation in global events and traces our development as a country through changes in population, economy, and technology. Students will analyse the elements that constitute Canadian identity, learn the stories of both individuals and communities, and study the evolution of political and social structures. Students will learn about differing interpretations of the past, and will come to understand the importance in historical studies of chronology and cause-and-effect relationships. They will also learn to develop and support a thesis, conduct research and analysis, and effectively communicate the results of their inquiries.

CHC2PR – Canadian History in the 20th Century, Grade 10, Applied (1.0 credit)

This course traces Canadian history from Wilfrid Laurier's pronouncement that the twentieth century belongs to Canada to the United Nations' recognition of Canada as one of the best countries in which to live. Students will learn about various expressions of Canadian identity, the stories of individuals and communities, and changes in political and social structures. Students will discover the importance in historical studies of chronology and cause-and-effect relationships. As well, they will be given opportunities to formulate appropriate questions, develop informed opinions, and present information in a variety of ways.

CHV2O1/CHV2OR – Civics, Grade 10, Open (.50 credit)

This course explores what it means to be an informed, participating citizen in a democratic society. Students will learn about the elements of democracy and the meaning of democratic citizenship in local, national, and global contexts. In addition, students will learn about social change, examine decision-making processes in Canada, explore their own and others' beliefs and perspectives on civics questions, and learn how to think and act critically and creatively about public issues.

English

KENAN1 – English, Grade 9, Academic (1.0 credit)

This course is designed to develop the oral communication, reading, writing, and media literacy skills that students need for success in their secondary school academic programs and in their daily lives. Students will analyse literary texts from contemporary and historical periods, interpret informational and graphic texts, and create oral, written, and media texts in a variety of forms. An important focus will be on the use of strategies that contribute to effective communication.

KENEN1 – English, Grade 9, Applied (1.0 credit)

This course is designed to develop the key oral communication, reading, writing, and media literacy skills students need for success in secondary school and daily life. Students will read, interpret, and create a variety of informational, literary, and graphic texts. An important focus will be on identifying and using appropriate strategies and processes to improve students' comprehension of texts and to help them communicate clearly and effectively.

KENBN1 – English, Grade 10, Academic (1.0 credit)

This course is designed to extend the range of oral communication, reading, writing, and media literacy skills that students need for success in their secondary school academic programs and in their daily lives. Students will analyse literary texts from contemporary and historical periods, interpret and evaluate informational and graphic texts, and create oral, written, and media texts in a variety of forms. An important focus will be on the selective use of strategies that contribute to effective communication.

KENFN1 – English, Grade 10, Applied (1.0 credit)

This course is designed to extend the range of oral communication, reading, writing, and media literacy skills that students need for success in secondary school and daily life. Students will study and create a variety of informational, literary, and graphic texts. An important focus will be on the consolidation of strategies and processes that help students interpret texts and communicate clearly and effectively.

ENG3U1/ENGUR – English, Grade 11, University Prep. (1.0 credit)

This course emphasizes the development of literacy, communication, and critical and creative thinking skills necessary for success in academic and daily life. Students will analyse challenging literary texts from various periods, countries, and cultures, as well as a range of informational and graphic texts, and create oral, written, and media texts in a variety of forms. An important focus will be on using language with precision and clarity and incorporating stylistic devices appropriately and effectively.

ENG3C1/ENG3CR – English, Grade 11, College Prep. (1.0 credit)

This course emphasizes the development of literacy, communication, and critical and creative thinking skills necessary for success in academic and daily life. Students will study the content, form, and style of a variety of informational and graphic texts, as well as literary texts from Canada and other countries, and create oral, written, and media texts in a variety of forms for practical and academic purposes. An important focus will be on using language with precision and clarity.

**ENG4U1/ENG4UR – English, Grade 12, University Prep.
(1.0 credit)**

This course emphasizes the consolidation of literacy, communication, and critical and creative thinking skills necessary for success in academic and daily life. Students will analyse a variety of informational and graphic texts, as well as literary texts from various countries and cultures, and create oral, written, and media texts in a variety of forms for practical and academic purposes. An important focus will be on using language with precision and clarity and developing greater control in writing.

**ENG4C1/ENG4CR – English, Grade 12, College Prep.
(1.0 credit)**

This course emphasizes consolidation of literacy, critical thinking, and communication skills. Students will analyse informational texts and literary works from various time periods, countries, and cultures; write research reports, summaries, and short analytical essays; complete an independent study project; and analyse the interactions among media forms, audiences, and media industry practices. An important focus will be on establishing appropriate style and using business and technical language effectively.

OLC4O1 – Ontario Secondary School Literacy Course, Grade 12, Open (1.0 credit)

This course is designed to help students acquire and demonstrate the cross-curricular literacy skills that are evaluated by the Ontario Secondary School Literacy Test (OSSLT). Students who complete the course successfully will meet the provincial literacy requirement for graduation. Students will read a variety of informational, narrative, and graphic texts and will produce a variety of forms of writing, including summaries, information paragraphs, opinion pieces, and news reports. Students will also maintain and manage a portfolio containing a record of their reading experiences and samples of their writing.

Eligibility requirement: Students who have been eligible to write the OSSLT at least twice and who have been unsuccessful at least once are eligible to take the course. A student may be allowed to enrol in the OSSLC before he or she has had a second chance to write the OSSLT, if the principal determines that it is in the best educational interests of the student.

French

FSF1DR – Core French, Grade 9, Academic (1.0 credit)

This course emphasizes the further development of oral communication, reading, and writing skills. Students will build on and apply their knowledge of French while exploring a variety of themes, such as relationships, social trends, and careers. Thematic readings, which include a selection of short stories, articles, and poems, will serve as stepping stones to oral and written activities.

FSF1PR – Core French, Grade 9, Applied (1.0 credit)

This course emphasizes the further development of oral communication skills, using the theme of media; the development of oral communication skills will be integrated with the development of reading and writing skills. Students will expand their ability to understand and speak French through conversations, discussions, and presentations. They will also read media-related short stories, articles, poems, and songs and write brief descriptions, letters, dialogues, and invitations.

Guidance and Career Education

**GLC2O1/GLC2OR – Career Studies, Grade 10, Open
(.50 credit)**

This course teaches students how to develop and achieve personal goals in education and work and contribute to their communities. Student learning will include assessing their own knowledge, skills, and characteristics and investigating economic trends, workplace organization, work opportunities, and ways to search for work. The course explores post secondary learning options, prepares students for community-based learning, and helps them build the capabilities needed for managing work and life transitions. Students will design action plans for pursuing their goals.

**GLN4O9 – Navigating the Workplace/Cooperative Education
(2.0 credits)**

This course provides students with opportunities to develop the workplace essential skills and work habits required for success in all types of workplaces. Cooperative education is an active learning process which integrates classroom theory with practical experience in business and industry. This program includes a classroom component and a placement component. The pre-placement component includes health and safety training, a review of community career opportunities, Employment Standards Act, Human Rights Act, the role of unions, and the development of a personalized learning plan. The placement component provides an opportunity for students to enrich their skills with practical applications in community placements. Students must have a good attitude and attendance record.

NOTE: STUDENTS ARE REQUIRED TO FIND THEIR OWN WORK PLACEMENT BEFORE JUNE 25, 2009 IN ORDER TO TAKE SUMMER SCHOOL CO-OP.

Mathematics

**KMMAN1 – Principles of Mathematics, Grade 9, Academic
(1.0 credit)**

This course enables students to develop an understanding of mathematical concepts related to algebra, analytic geometry, and measurement and geometry through investigation, the effective use of technology, and abstract reasoning. Students will investigate relationships, which they will then generalize as equations of lines, and will determine the connections between different representations of a linear relation. They will also explore relationships that emerge from the measurement of three-dimensional figures and two dimensional shapes. Students will reason mathematically and communicate their thinking as they solve multi-step problems.

**KMMEN1 – Foundations of Mathematics, Grade 9, Applied
(1.0 credit)**

This course enables students to develop an understanding of mathematical concepts related to introductory algebra, proportional reasoning, and measurement and geometry through investigation, the effective use of technology, and hands-on activities. Students will investigate real life examples to develop various representations of linear relations, and will determine the connections between the representations. They will also explore certain relationships that emerge from measurement of three-dimensional figures and two-dimensional shapes. Students will consolidate their mathematical skills as they solve problems and communicate their thinking.

KMMBN1 – Principles of Mathematics, Grade 10, Academic (1.0 credit)

This course enables students to broaden their understanding of relationships and extend their problem-solving and algebraic skills through investigation, the effective use of technology, and abstract reasoning. Students will explore quadratic relations and their applications; solve and apply linear systems; verify properties of geometric figures using analytic geometry; and investigate the trigonometry of right and acute triangles. Students will reason mathematically and communicate their thinking as they solve multi-step problems.

KMMFN1 – Foundations of Mathematics, Grade 10, Applied (1.0 credit)

This course enables students to consolidate their understanding of linear relations and extend their problem-solving and algebraic skills through investigation, the effective use of technology, and hands-on activities. Students will develop and graph equations in analytic geometry; solve and apply linear systems, using real-life examples; and explore and interpret graphs of quadratic relations. Students will investigate similar triangles, the trigonometry of right triangles, and the measurement of three-dimensional figures. Students will consolidate their mathematical skills as they solve problems and communicate their thinking.

MCR3U1/MCR3UR – Functions & Relations, Grade 11, University Preparation (1.0 credit)

This course introduces some financial applications of mathematics, extends students' experiences with functions, and introduces second-degree relations. Students will solve problems in personal finance involving applications of sequences and series; investigate properties and applications of trigonometric functions; develop facility in operating with polynomials, rational expressions, and exponential expressions; develop an understanding of inverses and transformations of functions; and develop facility in using function notation and in communicating mathematical reasoning. Students will also investigate loci and the properties and applications of conics.

MCF3M1/MCF3MR – Functions, Grade 11, University/College Preparation (1.0 credit)

This course introduces the mathematical concept of the function by extending students' experiences with linear and quadratic relations. Students will investigate properties of discrete and continuous functions, including trigonometric and exponential functions; represent functions numerically, algebraically, and graphically; solve problems involving applications of functions; investigate inverse functions; and develop facility in determining equivalent algebraic expressions. Students will reason mathematically and communicate their thinking as they solve multi-step problems.

MBF3C1/MBF3CR – Foundations for College Mathematics, Grade 11, College Preparation (1.0 credit)

This course enables students to broaden their understanding of mathematics as a problem solving tool in the real world. Students will extend their understanding of quadratic relations; investigate situations involving exponential growth; solve problems involving compound interest; solve financial problems connected with vehicle ownership; develop their ability to reason by collecting, analysing, and evaluating data involving one variable; connect probability and statistics; and solve problems in geometry and trigonometry. Students will consolidate their mathematical skills as they solve problems and communicate their thinking.

MCV4U1/MCV4UR – Calculus and Vectors, Grade 12, University Prep (1.0 credit)

This course builds on students' previous experience with functions and their developing understanding of rates of change. Students will solve problems involving geometric and algebraic representations of vectors, and representations of lines and planes in three-dimensional space; broaden their understanding of rates of change to include the derivatives of polynomial, rational, exponential, and sinusoidal functions; and apply these concepts and skills to the modelling of real-world relationships. Students will also refine their use of the mathematical processes necessary for success in senior mathematics. This course is intended for students who plan to study mathematics in university and who may choose to pursue careers in fields such as physics and engineering.

MDM4U1/MDM4UR - Mathematics of Data Management, Grade 12, University Preparation (1.0 credit)

This course broadens students' understanding of mathematics as it relates to managing data. Students will apply methods for organizing large amounts of information; solve problems involving probability and statistics; and carry out a culminating project that integrates statistical concepts and skills. Students will also refine their use of the mathematical processes necessary for success in senior mathematics. Students planning to enter university programs in business, the social sciences, and the humanities will find this course of particular interest.

MCT4C1/MAT4CR - Mathematics for College Technology, Grade 12, College Preparation (1.0 credit)

This course enables students to extend their knowledge of functions. Students will investigate and apply properties of polynomial, exponential, and trigonometric functions; continue to represent functions numerically, graphically, and algebraically; develop facility in simplifying expressions and solving equations; and solve problems that address applications of algebra, trigonometry, vectors, and geometry. Students will reason mathematically and communicate their thinking as they solve multi-step problems. This course prepares students for a variety of college technology programs.

MHF4U1/MHF4UR – Advanced Functions, Grade 12, University Preparation (1.0 credit)

This course extends students' experience with functions. Students will investigate the properties of polynomial, rational, logarithmic, and trigonometric functions; broaden their understanding of rates of change; and develop facility in applying these concepts and skills. Students will also refine their use of the mathematical processes necessary for success in senior mathematics. This course is intended both for students who plan to study mathematics in university and for those wishing to consolidate their understanding of mathematics before proceeding to any one of a variety of university programs.

Science

SNC1DR – Science, Grade 9, Academic (1.0 credit)

This course enables students to understand essential concepts in biology, chemistry, earth and space science, and physics; to develop skills in the processes of scientific inquiry; and to relate science knowledge to technological, social, and environmental knowledge. Students will learn about scientific theories and pursue inquiries related to cell division and reproduction, atomic and molecular structures, properties of elements and compounds, the universe and space exploration, and the principles of static and current electricity.

SNC1PR – Science, Grade 9, Applied (1.0 credit)

This course enables students to understand essential concepts in biology, chemistry, earth and space science, and physics; to develop practical skills in scientific investigation; and to apply their knowledge of science to everyday situations. Students will design and conduct investigations into practical problems and issues related to cell division and reproduction, the structure and properties of elements and compounds, astronomy and space exploration, and static and current electricity.

SNC2DR – Science, Grade 10, Academic (1.0 credit)

This course enables students to develop a deeper understanding of concepts in biology, chemistry, earth and space science, and physics; to develop further their skills in scientific inquiry; and to understand the interrelationships among science, technology, and the environment. Students will conduct investigations and understand scientific theories related to: ecology and the maintenance of ecosystems; chemical reactions, with particular attention to acid-base reactions; factors that influence weather systems; and motion.

SNC2PR – Science, Grade 10, Applied (1.0 credit)

This course enables students to develop a deeper understanding of concepts in biology, chemistry, earth and space science, and physics; to develop further their practical skills in scientific investigation; and to apply their knowledge of science to real-world situations. Students will design and conduct investigations into everyday problems and issues related to ecological sustainability, chemical reactions, weather systems, and motion.

SBI3U1/SBIUR – Biology, Grade 11, University Preparation (1.0 credit)

This course furthers students' understanding of the processes involved in biological systems. Students study the diversity of living things, cellular functions, the anatomy, growth, and functions of plants, internal systems and regulation, and genetic continuity. Throughout, the course provides cumulative evidence that all life forms, however diverse, are united by a common set of characteristics. The course focuses on the theoretical aspects of the topics under study, and helps students refine skills related to scientific investigation.

SBI3C1/SBI3CR – Biology, Grade 11, College Preparation (1.0 credit)

This course focuses on the processes involved in biological systems. Students will learn concepts and theories as they conduct investigations in the areas of environmental science, cellular biology, animal anatomy and physiology, plant structure and physiology, and microbiology. Throughout the course, applications of biology to everyday life as well as educational and career opportunities related to biology are emphasized and noted in student journals. Skills needed for further study in various branches of the life sciences and related fields are developed.

SCH3U1/SCH3UR – Chemistry, Grade 11, University Prep. (1.0 credit)

This course focuses on the concepts and theories that form the basis of modern chemistry. Students will study the behaviours of solids, liquids, gases, and solutions; investigate changes and relationships in chemical systems; and explore how chemistry is used in developing new products and processes that affect our lives and our environment. Emphasis will also be placed on the importance of chemistry in other branches of science.

SPH3U1/SPH3UR – Physics, Grade 11, University Prep. (1.0 credit)

This course develops students' understanding of the basic concepts of physics. Students will study the laws of dynamics and explore different kinds of forces, the quantification and forms of energy (mechanical, sound, light, thermal, and electrical), and the way energy is transformed and transmitted. They will develop scientific-inquiry skills as they verify accepted laws and solve both assigned problems and those emerging from their investigations. Students will also analyse the interrelationships between physics and technology, and consider the impact of technological applications of physics on society and the environment.

SBI4U1/SBI4UR – Biology, Grade 12, University Prep. (1.0 credit)

This course provides students with the opportunity for in-depth study of the concepts and processes associated with biological systems. Students will study theory and conduct investigations in the areas of metabolic processes, molecular genetics, homeostasis, evolution, and population dynamics. Emphasis will be placed on achievement of the detailed knowledge and refined skills needed for further study in various branches of the life sciences and related fields.

SCH4U1/SCH4UR – Chemistry, Grade 12, University Prep. (1.0 credit)

This course enables students to deepen their understanding of chemistry through the study of organic chemistry, energy changes and rates of reaction, chemical systems and equilibrium, electrochemistry, and atomic and molecular structure. Students will further develop problem-solving and laboratory skills as they investigate chemical processes, at the same time refining their ability to communicate scientific information. Emphasis will be placed on the importance of chemistry in daily life, and on evaluating the impact of chemical technology on the environment.

SCH4C1/SCH4CR – Chemistry, Grade 12, College Prep. (1.0 credit)

This course introduces students to the concepts that form the basis of modern chemistry. Students will study qualitative analysis, quantitative relationships in chemical reactions, organic chemistry and electrochemistry, and chemistry as it relates to the quality of the environment. Students will employ a variety of laboratory techniques, develop skills in data collection and scientific analysis, and communicate scientific information using appropriate terminology. Emphasis will be placed on the role of chemistry in daily life and in the development of new technologies and products.

**SPH4U1/SPH4UR - Physics, Grade 12, University Prep.
(1.0 credit)**

This course enables students to deepen their understanding of the concepts and theories of physics. Students will explore further the laws of dynamics and energy transformations, and will investigate electrical, gravitational, and magnetic fields; electromagnetic radiation; and the interface between energy and matter. They will further develop inquiry skills, learning, for example, how the interpretation of experimental data can provide indirect evidence to support the development of a scientific model. Students will also consider the impact on society and the environment of technological applications of physics.

**SPH4C1/SPH4CR - Physics, Grade 12, College Preparation
(1.0 credit)**

This course develops students' understanding of the basic concepts of physics. Students will explore these concepts as they relate to mechanical, electrical, fluid (hydraulic and pneumatic), and communications systems, as well as to the operation of commonly used tools and equipment. They will develop scientific inquiry skills as they verify accepted laws of physics and solve both assigned problems and those emerging from their investigations. Students will also consider the impact of technological applications of physics on society and the environment.

Social Sciences & Humanities

**HHS4M1 - Individuals and Families in a Diverse Society,
Grade 12, University/College Preparation (1.0 credit)**

This course applies current theories and research from the disciplines of anthropology, psychology and sociology to the study of individual development, family behaviour, intimate and parent-child relationships, and the ways in which families interact within the diverse Canadian society. Students will learn the interpersonal skills required to contribute to the well-being of families, and the investigative skills required to conduct and evaluate research about individuals and families.

**HSB4M1 – Challenge and Change in Society, Grade 12,
University/College Preparation (1.0 credit)**

This course examines the theories and methodologies used in anthropology, psychology, and sociology to investigate and explain shifts in knowledge, attitudes, beliefs, and behaviour and their impact on society. Students will analyse cultural, social, and biological patterns in human societies, looking at the ways in which those patterns change over time. Students will also explore the ideas of classical and contemporary social theorists, and will apply those ideas to the analysis of contemporary trends.