



Description of Courses for Grade 9

COMPULSORY COURSES:

*Students must take * compulsory subjects, **Rosseau Lake College required subjects, and choose between Visual Art or Music (see the Grade 9 Elective Course section)*

Canadian and World Studies

*** Geography of Canada (CGC1D) - Academic**

This course examines interrelationships within and between Canada's natural and human systems and how these systems interconnect with those in other parts of the world.

Students will explore environmental, economic, and social geographic issues relating to topics such as transportation options, energy choices, and urban development. Students will apply the concepts of geographic thinking and the geographic inquiry process, including spatial technologies, to investigate various geographic issues and to develop possible approaches for making Canada a more sustainable place in which to live.

Prerequisite: None

English

*** English (ENG1D) - Academic**

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. The course is intended to prepare students for the Grade 10 academic English course, which leads to university or college preparation courses in Grades 11 and 12.

Prerequisite: None

English as a Second Language - Refer to the last page.

French as a Second Language

*** Core French (FSF1D) - Academic**

This course provides opportunities for students to communicate and interact in French with increasing independence, with a focus on familiar topics related to their daily lives. Students will develop their skills in listening, speaking, reading, and writing by using language learning strategies introduced in the elementary Core French program, and will apply creative and critical thinking skills in various ways. They will also enhance their understanding and appreciation of diverse French-speaking communities, and will develop skills necessary for lifelong language learning. **Prerequisite:** Minimum of 600 hours of French instruction, or equivalent

Health and Physical Education

*** Healthy Living and Outdoor Activities (PAD1O) - Open**

This course equips students with the knowledge and skills they need to make healthy choices now and lead healthy, active lives in the future. Through participation in a wide range of physical activities, students develop knowledge and skills related to movement competence and personal fitness that provide a foundation for active living. Students also acquire an understanding of the factors and skills that contribute to healthy development and learn how their own well-being is affected by, and affects, the world around them. Students build their sense of self, learn to interact positively with others, and develop their ability to think critically and creatively. This course will introduce students to a variety of physical activities; canoeing, kayaking, cross-country skiing, snowshoeing, orienteering, astronomy, knot making, ecology, cooking, nutrition, edible plants and health issues. Students will also participate in overnight outtrips including sleeping in snow Quinzhees and/or a wilderness survival experience, whereby they learn how to build shelters and thrive in the abundance nature has to offer. CPR and emergency first aid are compulsory components of this course, arming the students with life-saving skills appropriate for back-country travel.

Prerequisite: None

Mathematics (one of the two following courses are required)

*** Principles of Mathematics (MPM1D) - Academic**

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.

Prerequisite: None

*** Foundations of Mathematics (MFM1P) - Applied**

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 the measurement of three-dimensional figures and two-dimensional shapes. Students will consolidate their mathematical skills as they solve problems and communicate their thinking. **Prerequisite:** None

Science

*** Science (SNC1D) - Academic**

This course enables students to develop their understanding of basic concepts in biology, chemistry, earth and space science, and physics, and to relate science to technology, society, and the environment. Throughout the course, students will develop their skills in the processes of scientific investigation. Students will acquire an understanding of scientific theories and conduct investigations related to sustainable ecosystems; atomic and molecular structures and the properties of elements and compounds; the study of the universe and its properties and components; and the principles of electricity.

Prerequisite: None

Technological Education

****Communications Technology (TGJ2O) – Open**

This course introduces students to communications technology from a media perspective. Students will work in the areas of TV/video and movie production, radio and audio production, print and graphic communications, photography, and interactive new media and animation. Student projects may include computer-based activities such as creating videos, editing photos, working with audio, cartooning, developing animations, and designing web pages. Students will also develop an awareness of environmental and societal issues related to communications technology, and will explore secondary and postsecondary education and training pathways and career opportunities in the various communications technology fields.

Prerequisite: None

GRADE 9 ELECTIVE COURSES:

Music, Grade 9, Open (AMU1O)

This course emphasizes the creation and performance of music at a level consistent with previous experience and is aimed at developing technique, sensitivity, and imagination. Students will develop musical literacy skills by using the creative and critical analysis processes in composition, performance, and a range of reflective and analytical activities. Students will develop an understanding of the conventions and elements of music and of safe practices related to music, and will develop a variety of skills transferable to other areas of their life. **Prerequisite:** None

Visual Arts, Grade 9, Open (AVI1O)

This course is exploratory in nature, offering an overview of visual arts as a foundation for further study. Students will become familiar with the elements and principles of design and the expressive qualities of various materials by using a range of media, processes, techniques and styles. Students will use the creative and critical analysis processes and will interpret art within a personal, contemporary and historical context. **Prerequisite:** None

Description of Courses for Grade 10

Compulsory Courses:

*(Students must take * compulsory and RLC ** compulsory subjects - plus choose four (4) other courses from the Grade 10 Course Electives.)*

Canadian and World Studies

*** Canadian History since World War 1 (CHC2D) - Academic**

This course explores social, economic, and political developments and events and their impact on the lives of different groups in Canada since 1914. Students will examine the role of conflict and cooperation in Canadian society, Canada's evolving role within the global community, and the impact of various individuals, organizations, and events on Canadian identity, citizenship, and heritage. They will develop their ability to apply the concepts of historical thinking and the historical inquiry process, including the interpretation and analysis of evidence, when investigating key issues and events in Canadian history since 1914.

Prerequisite: None

*** Civics and Citizenship (CHV2O) 0.5 credit - Open**

This course explores rights and responsibilities associated with being an active citizen in a democratic society. Students will explore issues of civic importance such as healthy schools, community planning, environmental responsibility, and the influence of social media, while developing their understanding of the role of civic engagement and of political processes in the local, national, and/or global community. Students will apply the concepts of political thinking and the political inquiry process to investigate, and express informed opinions about, a range of political issues and developments that are both of significance in today's world and of personal interest to them.

Prerequisite: None

English

*** English (ENG2D) - Academic**

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. This course is intended to prepare students for the compulsory Grade 11 university or college preparation course. **Prerequisite:** ENG1D or ENG1P

English as a Second Language - Refer to the last page of the handbook.

Guidance and Career Education

*** Career Studies (GLC2O) – 0.5 credit - Open**

The course teaches students how to develop and achieve personal goals for future learning, work, and community involvement. Students will assess their interests, skills, and characteristics and investigate current economic and workplace trends, work opportunities, and ways to search for work. The course explores post-secondary learning and career options, prepares students for managing work and life transitions, and helps students focus on their goals through the development of a career plan.

Prerequisite: None

Mathematics

*** Principles of Mathematics (MPM2D) - Academic**

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.

Prerequisite: MPM1D or MPM1P

*** Foundations of Mathematics (MFM2P) – Applied**

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. **Prerequisite:** MFM1P

Science

*** Science (SNC2D) - Academic**

This course enables students to enhance their understanding of concepts in biology, chemistry, earth and space science, and physics, and of the interrelationships between science, technology, society, and the environment. Students are also given opportunities to further develop their scientific investigation skills. Students will plan and conduct investigations and develop their understanding of scientific theories related to the connections between cells and systems in animals and plants; chemical reactions, with a particular focus on acid–base reactions; forces that affect climate and climate change; and the interaction of light and matter.

Prerequisite: SNC1D or SNC1P

Health and Physical Education

****Healthy Living and Outdoor Activities (PAD2O) Open**

This course enables students to further develop the knowledge and skills they need to make healthy choices now and lead healthy, active lives in the future. Through participation in a wide range of physical activities, students develop knowledge and skills related to movement competence and personal fitness that provide a foundation for active living. Students also acquire an understanding of the factors and skills that contribute to healthy development and learn how their own well-being is affected by, and

affects, the world around them. Students build their sense of self, learn to interact positively with others, and develop their ability to think critically and creatively. This course builds on skills developed in the previous year emphasizing a wide variety of outdoor activities that promote lifelong healthy active living. Students will kayak, solo canoe, rock climb, navigate, winter camp, Nordic ski, snowshoe, play ice hockey and broomball and other group sports. Experiential classes are designed to promote informed decision-making, conflict resolution and social skills. Activities that are more complex will challenge the students, tap their physical reserves and contribute to ongoing character development. **Prerequisite:** None

GRADE 10 ELECTIVE COURSES:

The Arts

Drama (ADA2O) – Open

This course provides opportunities for students to explore dramatic forms, conventions, and techniques. Students will explore a variety of dramatic sources from various cultures and representing a range of genres. Students will use the elements of drama in creating and communicating through dramatic works.

Students will assume responsibility for decisions made in the creative and collaborative processes and will reflect on their experiences. **Prerequisite:** None

Media Arts (ASM2O) – Open

This course enables students to create media art works by exploring new media, emerging technologies such as digital animation, and a variety of traditional art forms such as film, photography, video, and visual arts. Students will acquire communications skills that are transferable beyond the media arts classroom and develop an understanding of responsible practices related to the creative process. Students will develop the skills necessary to create and interpret media artworks. **Prerequisite:** None

Music (AMU2O) – Open

This course emphasizes the creation and performance of music at a level consistent with previous experience. Students will develop musical literacy skills by using the creative and critical analysis processes in composition, performance, and a range of reflective and analytical activities. Students will develop their understanding of musical conventions, practices, and terminology and apply the elements of music in a range of activities. They will also explore the function of music in society with reference to the self, communities, and cultures. **Prerequisite:** None

Visual Arts (AVI2O) - Open

This course enables students to develop their skills in producing and presenting art by introducing them to new ideas, materials, and processes for artistic exploration and experimentation. Students will apply the elements and principles of design when exploring the creative process. Students will use the critical analysis process to reflect on and interpret art within a personal, contemporary, and historical context. **Prerequisite:** None; recommended: AVI1O

Business Studies

Introduction to Business (BBI2O) – Open

This course introduces students to the world of business. Students will develop an understanding of the functions of business, including accounting, marketing, information and communication technology, human resources, and production, and of the importance of ethics and social responsibility. This course builds a foundation for further studies in business and helps students develop the business knowledge and skills they will need in their everyday lives. **Prerequisite:** None.

French as a Second Language

Core French (FSF2D) - Academic *(offered online in partnership with Blyth Education)*

This course provides opportunities for students to communicate in French about personally relevant, familiar, and academic topics in real-life situations with increasing independence. Students will exchange information, ideas, and opinions with others in guided and increasingly spontaneous spoken interactions. Students will develop their skills in listening, speaking, reading, and writing through the selective use of strategies that contribute to effective communication. They will also increase their understanding and appreciation of diverse French-speaking communities, and will develop skills necessary for lifelong language learning. **Prerequisite:** FSF1D or FSF1P

Description of Courses for Grade 11

*(*English and *mathematics are compulsory courses in Grade 11 at RLC and we highly recommend that students take at least one science and one arts course to offer a well-rounded profile to post-secondary institutions. Students must also ensure that they have completed their compulsory credits as outlined in the requirements for graduation in the Academic Handbook.)*

The Arts

Drama (ADA3O) University/College Preparation

This course requires students to engage in dramatic processes and the presentation of dramatic works, and emphasizes the application of drama skills in other contexts and opportunities. Students will interpret and present works in a variety of dramatic forms, create and script original works, and critically analyse the processes involved in producing drama works. Students will develop a variety of skills related to collaboration and the presentation of drama works. **Prerequisite:** None

Visual Arts (AVI3M) - University/College Preparation

This course enables students to further develop their knowledge and skills in visual arts. Students will use the creative process to explore a wide range of themes through studio work that may include drawing, painting, sculpting, and printmaking, as well as the creation of collage, multimedia works, and works using emerging technologies. Students will use the critical analysis process when evaluating their own work and the work of others. The course may be delivered as a comprehensive program or through a program focused on a particular art form (e.g., photography, video, computer graphics, and information design). **Prerequisite:** AVI1O or AVI2O

Music (AMU3M) - University/College Preparation

This course provides students with opportunities to develop their musical literacy through the creation, appreciation, analysis, and performance of music, including traditional, -commercial, and art music. Students will apply the creative process when performing appropriate -technical exercises and repertoire and will employ the critical analysis processes when reflecting on, -responding to, and analyzing live and recorded performances. Students will consider the -function of music in society and the impact of music on individuals and communities. They will explore how to apply skills developed in music to their life and careers. **Prerequisite:** AMU1O or AMU2O

Media Arts (ASM3M) – University/College Preparation

This course focuses on the development of media arts skills through the production of art works involving traditional and emerging technologies, tools, and techniques such as new media, computer animation, and web environments. Students will explore the evolution of media arts as an extension of traditional art forms, use the creative process to produce effective media art works, and critically analyse the unique characteristics of this art form. Students will examine the role of media artists in shaping audience perceptions of identity, culture, and values. **Prerequisite:** Media Arts, Grade 10, Open

Business Studies

Marketing: Goods, Services, Events (BMI3C) - College Preparation

This course introduces the fundamental concepts of product marketing, which includes the marketing of goods, services, and events. Students will examine how trends, issues, global economic changes, and information technology influence consumer buying habits. Students will engage in marketing research, develop marketing strategies, and produce a marketing plan for a product of their choice. **Prerequisite:** None

Computer Studies

Introduction to Computer Studies (ICS3U) - University Preparation

This course introduces students to computer science. Students will design software independently and as part of a team, using industry-standard programming tools and applying the software development life-cycle model. They will also write and use subprograms within computer programs. Students will develop creative solutions for various types of problems as their understanding of the computing environment grows. They will also explore environmental and ergonomic issues, emerging research in computer science, and global career trends in computer-related fields. **Prerequisite:** None

English

*** English (ENG3U) - University Preparation**

This course emphasizes the development of literacy, communication, and critical and creative thinking skills necessary for success in academic and daily life. Students will analyze 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. The course is intended to prepare students for the compulsory Grade 12 university or college preparation course.

Prerequisite: ENG2D

English as a Second Language - Refer the the last page.

French as a Second Language

Core French (FSF3U) - University Preparation - (*offered online in partnership with Blyth Education*)

This course offers students extended opportunities to speak and interact in real-life

situations in French with greater independence. Students will develop their listening, speaking, reading, and writing skills, as well as their creative and critical thinking skills, through responding to and exploring a variety of oral and written texts. They will also broaden their understanding and appreciation of diverse French-speaking communities, and will develop skills necessary for lifelong language learning.

Prerequisite: FSF2D

Health and Physical Education

Healthy Living and Outdoor Activities (PAD30) - Open

This course enables students to further develop the knowledge and skills they need to make healthy choices now and lead healthy, active lives in the future. Through participation in a wide range of physical activities and exposure to a broader range of activity settings, students enhance their movement competence, personal fitness, and confidence. Students also acquire an understanding of the factors and skills that contribute to healthy development and learn how their own well-being is affected by, and affects, the world around them. Students build their sense of self, learn to interact positively with others, and develop their ability to think critically and creatively. This course is open to students in Grade 11 or 12, who have some experience in outdoor activities and would like to improve their skills and develop additional certification in outdoor pursuits. There will be a few weekend outings required and there may be some additional cost for certification testing. **Prerequisite:** PAD20 or permission of instructor.

Mathematics

*(*One grade 11 math from the three options below is compulsory)*

Functions (MCR3U) - University Preparation

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. **Prerequisite:** MPM2D

Functions and Applications, (MCF3M) - University/College Preparation

This course introduces basic features of the function by extending students' experiences with quadratic relations. It focuses on quadratic, trigonometric, and exponential functions and their use in modelling real-world situations. Students will represent functions numerically, graphically, and algebraically; simplify expressions; solve equations; and

solve problems relating to applications. Students will reason mathematically and communicate their thinking as they solve multi-step problems. **Prerequisite:** MPM2D or MFM2P

Foundations for College Mathematics (MBF3C) - College Preparation

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, analyzing, 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. **Prerequisite:** MFM2P

Sciences

Biology (SBI3U) - University Preparation

This course furthers students' understanding of the processes that occur in biological systems. Students will study theory and conduct investigations in the areas of biodiversity; evolution; genetic processes; the structure and function of animals; and the anatomy, growth, and function of plants. The course focuses on the theoretical aspects of the topics under study, and helps students refine skills related to scientific investigation.

Prerequisite: SNC2D

Chemistry (SCH3U) - University Preparation

This course enables students to deepen their understanding of chemistry through the study of the properties of chemicals and chemical bonds; chemical reactions and quantitative relationships in those reactions; solutions and solubility; and atmospheric chemistry and the behaviour of gases. Students will further develop their analytical skills and investigate the qualitative and quantitative properties of matter, as well as the impact of some common chemical reactions on society and the environment. **Prerequisite:** SNC2D

Physics (SPH3U) - University Preparation

This course develops students' understanding of the basic concepts of physics. Students will explore kinematics, with an emphasis on linear motion; different kinds of forces; energy transformations; the properties of mechanical waves and sound; and electricity and magnetism. They will enhance their scientific investigation skills as they test laws of physics. In addition, they will analyse the interrelationships between physics and

technology, and consider the impact of technological applications of physics on society and the environment. **Prerequisite:** SNC2D

Environmental Science (SVN3M) – University/College Preparation

This course provides students with the fundamental knowledge of and skills relating to environmental science that will help them succeed in life after secondary school. Students will explore a range of topics, including the role of science in addressing contemporary environmental challenges; the impact of the environment on human health; sustainable agriculture and forestry; the reduction and management of waste; and the conservation of energy. Students will increase their scientific and environmental literacy and examine the interrelationships between science, the environment, and society in a variety of areas.

Prerequisite: Grade 10 Science, Applied or Academic

SOCIAL SCIENCES AND HUMANITIES

Introduction to Anthropology, Psychology and Sociology, Grade 11, University Preparation (HSP3U)

This course provides students with opportunities to think critically about theories, questions and issues related to anthropology, psychology and sociology. Students will develop an understanding of the approaches and research methods used by social scientists. They will be given opportunities to explore theories from a variety of perspectives, to conduct social science and to become familiar with current thinking on a range of issues within the three disciplines. **Prerequisite:** The Grade 10 Academic Course in English or the Grade 10 Academic History Course (Canadian and World Studies).

Description of Courses for Grade 12

(Students must take English and are strongly encouraged to take mathematics, a science, and an arts course to fulfill a minimum schedule of six (6) courses U or M courses.)

THE ARTS

Visual Arts (AVI4M) - University/College Preparation

This course focuses on enabling students to refine their use of the creative process when creating and presenting two- and three-dimensional art works using a variety of traditional and emerging media and technologies. Students will use the critical analysis process to deconstruct art works and explore connections between art and society. The

studio program enables students to explore a range of materials, processes, and techniques that can be applied in their own art production. Students will also make connections between various works of art in personal, contemporary, historical, and cultural contexts. **Prerequisite:** AVI3M or AVI3O

Music (AMU4M) - University/College Preparation

This course enables students to enhance their musical literacy through the creation, appreciation, analysis, and performance of music. Students will perform traditional, -commercial, and art music, and will respond with insight to live and recorded performances. Students will enhance their understanding of the function of music in society and the impact of music on themselves and various communities and cultures. Students will analyze how to apply skills developed in music to their life and careers.

Prerequisite: AMU3M

BUSINESS STUDIES

International Business Fundamentals (BBB4M) – University/College Preparation

This course provides an overview of the importance of international business and trade in the global economy and explores the factors that influence success in international markets. Students will learn about the techniques and strategies associated with marketing, distribution, and managing international business effectively. This course prepares students for post-secondary programs in business, including international business, marketing and management. **Prerequisite:** Any university, university/college, or college preparation course in Business Studies English or Canadian and World Studies.

Business Leadership: Management Fundamentals (BOH4M) – University/College Preparation

This course focuses on the development of leadership skills used in managing a successful business. Students will analyze the role of a leader in business, with a focus on decision making, management of group dynamics, workplace stress and conflict, motivation of employees, and planning. Effective business communication skills, ethics, and social responsibility are also emphasized. **Prerequisite:** None

CANADIAN AND WORLD STUDIES

Analyzing Current Economic Issues (CIA4U) - University Preparation

This course investigates the nature of the competitive global economy and explores how

individuals and societies can gain the information they need to make appropriate economic decisions. Students will learn about the principles of microeconomics and macroeconomics, apply economic models and concepts to interpret economic information, assess the validity of statistics, and investigate marketplace dynamics. Students will use economic inquiry and communication skills to analyze current economic issues, make informed judgments, and present their findings. **Prerequisite:** Any university or university/college preparation course in Canadian and World Studies, English, or Social Sciences and Humanities.

World Issues: A Geographic Analysis (CGW4U) – University Preparation

This course examines the global challenges of creating a sustainable and equitable future, focusing on current issues that illustrate these challenges. Students will investigate a range of topics, including cultural, economic, and geopolitical relationships, regional disparities in the ability to meet basic human needs, and protection of the natural environment. Students will use geotechnologies and skills of geographic inquiry and analysis to develop and communicate balanced opinions about the complex issues facing Canada and a world that is interdependent and constantly changing. **Prerequisite:** Any university or university/college preparation course in Canadian and world studies, English, or social sciences and humanities.

Canadian and International Politics (CPW4U) – University Preparation

This course explores various perspectives on issues in Canadian and world politics. Students will explore political decision making and ways in which individuals, stakeholder groups, and various institutions, including governments, multinational corporations, and non-governmental organizations, respond to and work to address domestic and international issues. Students will apply the concepts of political thinking and the political inquiry process to investigate issues, events, and developments of national and international political importance, and to develop and communicate informed opinions about them. **Prerequisite:** Any university or university/college preparation course in Canadian and world studies, English, or social sciences and humanities

ENGLISH

*** English (ENG4U) - University Preparation**

This course emphasizes the consolidation of the literacy, communication, and critical and creative thinking skills necessary for success in academic and daily life. Students will analyze a range of challenging literary texts from various periods, countries, and cultures; 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 using academic language coherently and confidently, selecting the reading strategies best suited to particular texts

and particular purposes for reading, and developing greater control in writing. The course is intended to prepare students for university, college, or the workplace. **Prerequisite:** ENG3U **(This English course is mandatory for entrance into Ontario universities.)**

FRENCH AS A SECOND LANGUAGE

Core French (FSF4U) - University Preparation -this is offered online in partnership with Blyth Education

This course provides extensive opportunities for students to speak and interact in French independently. Students will develop their listening, speaking, reading, and writing skills, apply language learning strategies in a wide variety of real-life situations, and develop their creative and critical thinking skills through responding to and interacting with a variety of oral and written texts. They will also enrich their understanding and appreciation of diverse French-speaking communities, and will develop skills necessary for lifelong language learning. **Prerequisite:** FSF3U

COMPUTER STUDIES

Computer Science (ICS4U) – University Preparation

This course enables students to further develop knowledge and skills in computer science. Students will use modular design principles to create complex and fully documented programs, according to industry standards. Student teams will manage a large software development project, from planning through to project review. Students will also analyze algorithms for effectiveness. They will investigate ethical issues in computing and further explore environmental issues, emerging technologies, areas of research in computer science, and careers in the field. **Prerequisite:** Introduction to Computer Science, Grade 11, University Preparation.

HEALTH AND PHYSICAL EDUCATION

Recreation and Healthy Living Leadership, Grade 12, University/College Preparation (PLF4M)

This course enables students to explore the benefits of lifelong participation in active recreation and healthy leisure and to develop the leadership and coordinating skills needed to plan, organize and safely implement recreation events and other activities related to healthy, active living. Students will also learn how to promote the benefits of healthy, active living to others through mentoring and assisting them in making informed decisions that enhance their well-being. The course will prepare students for university programs in physical education and health and kinesiology and for college and university programs in recreation and leisure management, fitness and health promotion and fitness leadership. **Prerequisite:** Any Health and Physical Education Course

MATHEMATICS

Advanced Functions (MHF4U) - University Preparation – Co-requisite or Prerequisite for Calculus & Vectors

This course extends students' experience with functions. Students will investigate the properties of polynomial, rational, logarithmic, and trigonometric functions; develop techniques for combining 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 taking the Calculus and Vectors course as a prerequisite for a university program and for those wishing to consolidate their understanding of mathematics before proceeding to any one of a variety of university programs.

Prerequisite: MCR3U, or MCT4C

Calculus and Vectors (MCV4U) - University Preparation

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 choose to pursue careers in fields such as science, engineering, economics, and some areas of business, including those students who will be required to take a university-level calculus, linear algebra, or physics course.

Prerequisite: MHF4U – concurrently or prerequisite

Mathematics of Data Management (MDM4U) - University Preparation

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. **Prerequisite:** MCR3U or MCF3M

SCIENCES

Biology (SBI4U) - University Preparation

This course provides students with the opportunity for in-depth study of the concepts and processes that occur in biological systems. Students will study theory and conduct investigations in the areas of biochemistry, metabolic processes, molecular genetics, homeostasis, and population dynamics. Emphasis will be placed on the achievement of detailed knowledge and the refinement of skills needed for further study in various branches of the life sciences and related fields. **Prerequisite:** SBI3U

Chemistry (SCH4U) - University Preparation

This course enables students to deepen their understanding of chemistry through the study of organic chemistry, the structure and properties of matter, energy changes and rates of reaction, equilibrium in chemical systems, and electrochemistry. Students will further develop their problem-solving and investigation skills as they investigate chemical processes, and will refine their ability to communicate scientific information. Emphasis will be placed on the importance of chemistry in everyday life and on evaluating the impact of chemical technology on the environment. **Prerequisite:** SCH3U

Physics (SPH4U) - University Preparation

This course enables students to deepen their understanding of physics concepts and theories. Students will continue their exploration of energy transformations and the forces that affect motion, and will investigate electrical, gravitational, and magnetic fields and electromagnetic radiation. Students will also explore the wave nature of light, quantum mechanics, and special relativity. They will further develop their scientific investigation skills, learning, for example, how to analyse, qualitatively and quantitatively, data related to a variety of physics concepts and principles. Students will also consider the impact of technological applications of physics on society and the environment. **Prerequisite:** SPH3U

DESCRIPTION OF ALTERNATIVE CREDIT COURSES

These courses may be offered depending on the needs of the student body.

Ontario Secondary School Literacy Course

Ontario Secondary School Literacy Course (OLC4O) – Grade 12 - Open

The Ontario Secondary School Literacy Course (OLC4O) is an alternative assessment to the Ontario Secondary School Literacy Test (OSSLT). This credit course is designed to support at-risk students in improving their language skills and provide them with an

alternative way of demonstrating these skills. Students who have had at least two opportunities to write the OSSLT and who have failed it at least once will be eligible to take the course. The successful completion of this course will satisfy the literacy requirement for graduation.

For a student requiring this specialized course **an additional fee of \$2,500** will be charged to the student's personal account.

ENGLISH AS A SECOND LANGUAGE

ESL courses are offered to enable students who are learning English and/or acquiring academic skills to succeed in developing their English skills while becoming immersed in a truly Canadian program. Each course is designed to aid with their integration into the Canadian academic environment and help with preparation for the Grade 10 Ontario Secondary-School Literacy Test and the new integrated TOEFL test.

If it is the opinion of the school that a student needs ESL instruction, that student will be required to take ESL and is subject to all applicable fees. Our faculty-reading specialist will establish individual levels through testing and recommend an appropriate level of study. An **additional fee of \$2,500** will be charged to the student's personal account at the time of enrolment in the course.

Students are placed in ESL courses in accordance with their ability and grade. Each course, based on the Ontario curriculum, is taught by an ESL specialist and one credit may be granted for the successful completion of 110 hours of instruction.

A student entering the Ontario secondary school system at any grade level may be given credit for a maximum of 3 ESL credits towards the 4 compulsory English credits required for graduation. The remaining compulsory English credit will be earned at the Grade 12 level (ENG4U).

It should be noted that students may need to successfully complete additional English courses to meet the entrance requirements of some post-secondary education programs and of specific workplaces.

English as a Second Language, Level 2, and (ESLBO) - Open

This course expands students' listening, speaking, reading and writing skills in English for everyday and academic purposes. Students will participate in conversations, in structured situations, on a variety of familiar and new topics; link English sentences to compose paragraphs; read a variety of texts designed or adapted for English language learners; and expands their knowledge of English grammatical structures and sentence patterns. The course also supports students' continuing adaptation to the Ontario school system by expanding their cultural knowledge of their new province and country. **Prerequisite :** English as a Second Language, Level 1, or equivalent*

English as a Second Language, Level 3, (ESLCO) - Open

This course extends students' skills in listening, speaking, reading and writing in English for a variety of everyday and academic purposes. Students will make short classroom presentations; read a variety of adapted and original texts in English; and write using a variety of forms of text. Students will also expand their academic vocabulary and their study skills to facilitate the transition to the mainstream school program. This course also introduces students to the rights and responsibilities inherent in Canadian citizenship, and to a variety of current Canadian issues. **Prerequisite:** English as a Second Language, Level 2, or equivalent*