



Cornwall Collegiate and Vocational School

Course and Program Information

2024-2025



DAILY LIVING PROGRAM

Courses in this program are offered for developmentally delayed students and are designed to consider the individual student's rate of learning and learning style. Students will learn skills required to function in society as well as the basic academics. In each course a variety of types of learning materials are used, however a greater emphasis is placed upon the use of concrete materials and examples. Extensive evaluation techniques which include carefully monitored self-evaluation and peer assessment are used both within and outside the classroom. Instruction and evaluation attempt to strike an individual balance between oral and written work.

Below is a list of **some of the possible courses** and a brief description of the content.

Creative Arts for Enjoyment and Expression, (KALANO)

Students will be given the opportunity to enjoy a variety of creative arts activities. These will include woodworking and visual arts and students will develop the skills required to create simple crafts.

Exploring Our World, (KCWANO)

Students are given an opportunity to gather knowledge regarding our region and our country. Students discuss geography and history and the effect that it has had on our region.

Language and Communication Development, (KENANO)

The goal of this course is to develop written and spoken communication skills to enable the student to feel more at ease, more comfortable when participating in social situations and commercial transactions. This course will also develop reading and listening skills.

Social Skills Development, (KHDANO)

Students are given the opportunity to develop social skills for use in daily life. This is done in a variety of settings, so that students can adapt when they are faced with social situations after they have completed high school.

Culinary Skills, (KHIANO)

Kitchen skills are developed in this program. This practical hands-on approach allows students to become as self-sufficient as is possible for them. This cooking course is designed to demonstrate to the students that cooking is not an individual, isolated activity, but one which combines group planning and group involvement - both in preparation and in consumption.

Students also develop skills required to plan meals, prepare grocery lists and visit grocery stores.

Numeracy and Numbers, (KMMANO)

This course will help students to acquire skills in the basic functions of mathematics. Other areas, such as measurement and word problems, may also be covered. Students will be encouraged to apply these basic math skills to their everyday problems and experiences. The course must also help to develop within students the confidence necessary to increase their ability to function independently as possible within conventional society.

Personal Health and Fitness, (KPFANO)

An important component of this course is the development of socialization skills. During the activities, and game settings, students will be working in teams, in pairs and in groups to achieve a goal. Therefore, cooperation and teamwork skills will be emphasized throughout the course. The health component focuses on teaching students about their bodies regarding eating and nutrition, sexuality, personal hygiene and fitness as they mature into adulthood.

Choice-Making for Healthy Living, (KPHANO)

This course incorporates many evidence-based programs for skill development. The focus is on developing the skills necessary to build and sustain healthy relationships with family, peers and community members in the appropriate context throughout life. This includes making healthy and positive choices for physical, social and emotional well-being.

Exploring our Environment, (KSNANO)

The environment impacts everyone's lives and how our needs are met. Students will develop an understanding of their interaction with the environment by connecting with the following program areas: Caring for the Environment; Understanding the Weather; and Reducing our Waste (Reduce, Reuse, Recycle).

Computer Skills, (KTTANO)

This course helps students develop independent technology skills, such as keyboarding, using a tablet or iPad, and various accessories, such as a mouse. Students will also access resources for accessibility, such as Google Read and Write, while they develop proficiency in appropriate software platforms.

TYPES OF COURSES

Academic courses are designed so that the essential concepts of a subject are learned and related material explored as well. Although the knowledge and skills in the subject will be developed through both theory and practical applications, the focus will be on theory and abstract thinking as a basis for future learning and problem solving.

Applied courses are designed to cover the essential concepts of a subject. Knowledge and skill will be developed through both theory and practical applications, but the focus will be on the practical applications. In applied courses, familiar, real-life situations will be used to illustrate ideas, and more opportunities will be given to experience hands-on applications of the concepts studied.

De-streamed courses (Grade 9 only) are a combination of applied and academic streams. Students who find success within a larger class can complete tasks in a directed environment or independently may choose the de-streamed program. After successfully completing these courses, students will choose academic or applied for grade 10.

Locally Developed courses are designed to enable students to improve their basic academic skills, while working toward a diploma. Real-life, practical expectations, aimed at the world of work are the basis of these courses.

Open courses (9-10) are courses for all subjects other than those offered as academic and applied. An open course in a subject has one set of expectations for all students. These courses are designed to provide students with a broad educational base that will prepare them for studies in grades 11 and 12.

University preparation courses are designed to equip students with the knowledge and skills they need to meet the entrance requirements for university programs.

University/college preparation courses are designed to equip students with the knowledge and skills they need to meet the entrance requirements for specific programs offered at universities and colleges.

College preparation courses are designed to equip students with the knowledge and skills they need to meet the requirements for entrance to most college programs or for admission to apprenticeship or other training programs.

Workplace preparation courses are designed to equip students with the knowledge and skills they need to meet the expectations of employers, if they plan to enter the workplace directly after graduation, or the requirements for admission to certain apprenticeship or other training programs.

Open courses (11-12) are designed to broaden students' knowledge and skills in subjects that reflect their interests and to prepare them for active and rewarding participation in society. They are not designed with the specific requirements of universities, colleges, or the workplace in mind.

Grade 9

Arts

Drama (Open)	ADA1O
Music – Instrumental (Open)	AMU1O
Music – Vocal (Open)	AMV1O
Visual Arts (Open)	AVI1O
Expressing Aboriginal Cultures (Open)	NAC1O

Canadian and World Studies

Canadian Geography (De-streamed)	CGC1W
Canadian Geography –Immersion (De-streamed)	CGC1WF

English

English (De-streamed)	ENL1W
English (Locally Developed)	ENG1L

English as a Second Language

English as a Second Language – Level 1 (Open)	ESLAO
English as a Second Language – Level 2 (Open)	ESLBO
English as a Second Language – Level 3 (Open)	ESLCO
English as a Second Language – Level 4 (Open)	ESLDO

French As a Second Language

Core French (Open)	FSF1O
French Immersion (Academic)	FIF1DF

Health and Physical Education

Healthy Active Living (Open)	PPL1O0
Healthy Active Living (Open) Immersion	PPL1OF

Mathematics

Mathematics (De-streamed)	MTH1W
Mathematics (Locally Developed)	MAT1L

International and Native Languages

Mohawk – Level 1 (Open)	LNMAO
Mohawk – Level 2 (Open)	LNMBO
Mohawk – Level 3 (Open)	LNMCO
Mohawk – Level 4 (Open)	LNMDO

Science

Science (De-streamed)	SNC1W
Science (Locally Developed)	SNC1L

Technological Education

Communications Technology and the Skilled Trades (Open)	TGJ1O
Construction Technology and the Skilled Trades (Open)	TCJ1O
Hairstyling and Aesthetics and the Skilled Trades (Open)	TXJ1O
Hospitality and Tourism and the Skilled Trades (Open)	TFJ1O
Technological Design and the Skilled Trades (Open)	TDJ1O
Transportation Technology and the Skilled Trades (Open)	TTJ1O

Grade 9 students working toward an *Ontario Secondary School Diploma* (OSSD) will complete eight (8) compulsory credits.

Core (select a pathway) – English, Math, Science, Geography, French (or Mohawk), Health & Physical Education

Option 1 – Select a course from *The Arts*

Option 2 – Select a course from *Technological Education*

The Arts

Grade 9, Drama, Open

This course provides opportunities for students to explore dramatic forms and techniques, using material from a wide range of sources and cultures. Students will use the elements of drama to examine situations and issues that are relevant to their lives. Students will create, perform, discuss, and analyse drama, and then reflect on the experiences to develop an understanding of themselves, the art form, and the world around them.

Grade 9, Instrumental Music, Open

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.

Grade 9, Vocal Music, Open

This course emphasizes the creation and performance of vocal 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.

Grade 9, Visual Arts, Open

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.

Grade 9, Expressing Aboriginal Cultures, Open

This course examines Aboriginal cultures in Canada through an exploration of art forms –painting and sculpture – created by Aboriginal artists. Students will learn to identify Aboriginal art forms and describe relationships between the art forms and Aboriginal traditions, philosophy, and culture. Students will also create their own art forms to express their understanding of Aboriginal identity, relationships, and sovereignty.

Canadian & World Studies

Grade 9, Geography of Canada, De-streamed

Grade 9, Geography of Canada - Immersion, De-streamed

This course builds on learning in Grades 7 and 8 geography. Students will explore relationships within and between Canada's natural and human systems and how they interconnect with other parts of the world. Students will also examine environmental and economic issues and their impact related to topics such as natural resources and industries, careers, land use, and responsible development and sustainability. In addition, students will understand the connections that diverse communities and individuals have with the physical environment and each other throughout Canada, including First Nations, Métis, and Inuit perspectives. Students will apply geographic thinking, use the geographic inquiry process, and use geospatial technologies throughout their investigations.

English

Grade 9, English, De-streamed

This course enables students to continue to develop and consolidate the foundational knowledge and skills that they need for reading, writing, and oral and visual communication. Throughout the course, students will continue to enhance their media literacy and critical literacy skills, and to develop and apply transferable skills, including digital literacy. Students will also make connections to their lived experiences and to society and increase their understanding of the importance of language and literacy across the curriculum.

Grade 9, English, Locally Developed

This course provides foundational literacy and communication skills to prepare students for success in their daily lives, in the workplace, and in the English Grade 11 Workplace Preparation course. The course is organized by strands that develop listening and talking skills, reading and viewing skills, and writing skills. In all strands, the focus is on developing foundational literacy skills and in using language clearly and accurately in a variety of authentic contexts. Students develop strategies and put into practice the processes involved in talking, listening, reading, viewing, writing, and thinking, and reflect regularly upon their growth in these areas.

English as a Second Language

English as a Second Language Level 1, Open

Prerequisite – none

This course builds on students' previous education and language knowledge to introduce them to the English language and help them adjust to the diversity in their new environment. Students will use beginning English language skills in listening, speaking, reading, and writing for every-day and essential academic purposes. They will engage in short conversations using basic English language structures and simple sentence patterns; read short, adapted texts; and write phrases and short sentences. The course also provides students with the knowledge and skills they need to begin to adapt to their new lives in Canada.

English as a Second Language Level 2, Open

Prerequisite – ESLAO or equivalent

This course extends students' listening, speaking, reading, and writing skills in English for every-day and academic purposes. Students will participate in conversations in structured situations on a variety of familiar and new topics; read a variety of texts designed or adapted for English language learners; expand their knowledge of English grammatical structures and sentence patterns; and link English sentences to compose paragraphs. The course also supports students' continuing adaptation to the Ontario school system by expanding their knowledge of diversity in their new province and country.

English as a Second Language Level 3, Open

Prerequisite – ESLBO or equivalent

This course further extends students' skills in listening, speaking, reading, and writing in English for a variety of everyday and academic purposes. Students will make short classroom oral presentations; read a variety of adapted and original texts in English; and write using a variety of text forms. As well, students will expand their academic vocabulary and their study skills to facilitate their 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.

English as a Second Language Level 4, Open

Prerequisite – ESLCO or equivalent

This course prepares students to use English with increasing fluency and accuracy in classroom and social situations and to participate in Canadian society as informed citizens. Students will develop the oral presentation, reading, and writing skills required for success in all school subjects. They will extend listening and speaking skills through participation in 63 discussions and seminars; study and interpret a variety of grade-level texts; write narratives, articles, and summaries in English; and respond critically to a variety of print and media texts.

French as a Second Language

Grade 9, Core French, Open

This is an introductory course for students who have little or no knowledge of French or who have not accumulated the minimum of 600 hours of elementary Core French instruction. Students will begin to understand and speak French in guided and structured interactive settings, and will develop fundamental skills in listening, speaking, reading, and writing through discussing issues and situations that are relevant to their daily lives. Throughout the course, students will develop their awareness of diverse French-speaking communities in Canada and acquire an understanding and appreciation of these communities. They will also develop a variety of skills necessary for lifelong language learning.

Grade 9, Immersion French, Academic

Prerequisite - minimum of 3800 hours of instruction in French, or equivalent

This course provides opportunities for students to speak and interact in French independently in a variety of real-life and personally relevant contexts. Students will develop their skills in listening, speaking, reading, and writing, as well their ability to communicate in French with confidence, by using language learning strategies introduced in the elementary French Immersion program. Students will enhance their knowledge of the French language through the study of French-Canadian literature. They will also increase their understanding and appreciation of diverse French-speaking communities and will develop skills necessary for lifelong language learning.

Health and Physical Education

Grade 9, Healthy Active Living Education, Open

Grade 9, Healthy Active Living Education – Immersion, De-streamed

This course emphasizes regular participation in a variety of enjoyable physical activities that promote lifelong healthy active living. Students will learn movement skills and principles, ways to improve personal fitness and physical competence, and safety and injury prevention. They will investigate issues related to healthy sexuality and the use and abuse of alcohol, tobacco, and other drugs, and will participate in activities designed to develop goal setting, communication, and social skills.

Mathematics

Grade 9, Mathematics, De-streamed

This course enables students to consolidate, and continue to develop, an understanding of mathematical concepts related to number sense and operations, algebra, measurement, geometry, data, probability, and financial literacy. Students will use mathematical processes, mathematical modelling, and coding to make sense of the mathematics they are learning and to apply their understanding to culturally responsive and relevant real-world situations. Students will continue to enhance their mathematical reasoning skills, including proportional reasoning, spatial reasoning, and algebraic reasoning, as they solve problems and communicate their thinking.

Grade 9, Mathematics, Locally Developed

This course emphasizes further development of mathematical knowledge and skills to prepare students for success in their everyday lives, in the workplace, in the Grade 10 LDCC course, and in the Mathematics Grade 11 and Grade 12 Workplace Preparation courses. The course is organized by three strands related to money sense, measurement, and proportional reasoning. In all strands, the focus is on developing and consolidating key foundational mathematical concepts and skills by solving authentic, everyday problems. Students have opportunities to further develop their mathematical literacy and problem-solving skills and to continue developing their skills in reading, writing, and oral language through relevant and practical math activities.

Science

Grade 9, Science, De-streamed

This course enables students to develop their understanding of concepts related to biology, chemistry, physics, and Earth and space science, and to relate science to technology, society, and the environment. Throughout the course, students will develop and refine their STEM skills as they use scientific research, scientific experimentation, and engineering design processes to investigate concepts and apply their knowledge in situations that are relevant to their lives and communities. Students will continue to develop transferable skills as they become scientifically literate global citizens.

Grade 9, Science, Locally Developed

This course emphasizes reinforcing and strengthening science-related knowledge and skills, including scientific inquiry, critical thinking and the relationship between science, society, and the environment, to prepare students for success in everyday life, in the workplace and in the Science Grade 11 Workplace Preparation course. Students explore a range of topics including science in daily life, properties of common materials, life sustaining processes in simple and complex organisms, and electrical circuits. Students have the opportunity to extend mathematical and scientific process skills and to continue developing their skills in reading, writing, and oral language through relevant and practical science activities.

Technological Studies

Grade 9, Communications Technology and the Skilled Trades, Open

This exploratory course introduces students to concepts and skills in communications technology, which encompasses television/video and movie production, radio and audio production, print and graphic communications, photography, and animation. Students will develop an awareness of related environmental and societal issues and will begin to explore secondary and post secondary pathways leading to careers in the field.

Grade 9, Construction Technology and the Skilled Trades, Open

This exploratory course introduces students to concepts and skills in construction technology, which encompasses plumbing, electrical and network wiring, masonry, heating/cooling, carpentry, and woodworking. Students will develop an awareness of related environmental and societal issues and will begin to explore secondary and postsecondary pathways leading to careers in the field.

Hairstyling and Aesthetics and the Skilled Trades, Grade 9, Open

This course presents hairstyling, make-up, and nail care techniques from a salon/spa perspective. Using materials, processes, and techniques used in the industry, students learn fundamental skills in hairstyling, giving manicures and facials, and providing hair/scalp analyses and treatments. Students will also consider related environmental and societal issues and will explore secondary and postsecondary pathways leading to careers in the field of hairstyling and aesthetics.

Grade 9, Technological Design and the Skilled Trades, Open

This exploratory course introduces students to concepts and skills related to technological design, which involves the development of solutions to various design challenges and the fabrication of models or prototypes of those solutions. Students will develop an awareness of related environmental and societal issues and will begin to explore secondary and postsecondary pathways leading to careers in the field.

Grade 9, Transportation Technology and the Skilled Trades, Open

This course introduces students to the service and maintenance of vehicles, aircraft, and/or watercraft. Students will develop knowledge and skills related to the construction and operation of vehicle/craft systems and learn maintenance and repair techniques. Student projects may include the construction of a self- propelled vehicle or craft, engine service, tire/wheel service, electrical/battery service, and proper body care. Students will develop an awareness of related environmental and societal issues and will explore secondary and postsecondary pathways leading to careers in the transportation industry.

Grade 10

The Arts

Drama (Open)	ADA2O
Music – Guitar (Open)	AMG2O
Music – Instrumental (Open)	AMU2O
Music – Vocal (Open)	AMV2O
Visual Arts (Open)	AVI2O

Business Studies

Launching and Leading a Business	BEP2O
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Canadian and World Studies

Canadian History since WWI (Academic)	CHC2D
Canadian History since WWI – Immersion (Academic)	CHC2DF
Canadian History since WWI (Applied)	CHC2P
Canadian History (Locally Developed)	CHC2L
Civics and Citizenship (Open) (½ credit)	CHV2O
Civics and Citizenship – Immersion (Open) (½ credit)	CHV2OF
First Nations, Métis, and Inuit in Canada (Open)	NAC2O

English

English (Academic)	ENG2D
English (Applied)	ENG2P
English (Locally Developed)	ENG2L
Literacy Skills: Reading and Writing	ELS2O

English as a Second Language

English as a Second Language – Level 1 (Open)	ESLAO
English as a Second Language – Level 2 (Open)	ESLBO
English as a Second Language – Level 3 (Open)	ESLCO
English as a Second Language – Level 4 (Open)	ESLDO

French as a Second Language

French Immersion (Academic)	FIF2DF
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Guidance and Career Education

Career Studies (Open)	GLC2O
Career Studies – Immersion (Open)	GLC2OF
Learning Strategies 1: Skills for Success in Secondary School (Open)	GLE2O

Health and Physical Education

Healthy Active Living Education (Open)	PPL2O
Healthy Active Living Education - Immersion (Open)	PPL2OF
Healthy Living and Personal and Fitness Activities (Open)	PAF2O

Mathematics

Principles of Mathematics (Academic)	MPM2D
Foundations of Mathematics (Applied)	MFM2P
Mathematics (Locally developed)	MAT2L

International and Native Languages

Mohawk – Level 1 (Open)	LNMAO
Mohawk – Level 2 (Open)	LNMB0
Mohawk – Level 3 (Open)	LNMC0
Mohawk – Level 4 (Open)	LNMD0

Sciences

Science (Academic)	SNC2D
Science (Applied)	SNC2P

Technological Education

Communication Technology and the Skilled Trades (Open)	TGJ20
Construction Technology and the Skilled Trades (Open)	TCJ20
Green Industries and the Skilled Trades (Open)	THJ20
Hospitality & Tourism and the Skilled Trades	TFJ20
Technological Design and the Skilled Trades (Open)	TDJ20
Transportation Technology and the Skilled Trades (Open)	TTJ20

The Arts

Grade 10, Drama, Open

Prerequisite - none

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.

Grade 10, Music – Guitar/ Instrumental/ Vocal, Open

Prerequisite - none

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.

Grade 10, Visual Arts, Open

Prerequisite - none

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.

Business Studies

Grade 10, Launching and Leading a Business, Open

Prerequisite - none

This course introduces students to the world of business and what is required to be successful, ethical, and responsible in today's economy. Students will develop the knowledge and skills needed to be an entrepreneur who knows how to respond to local and global market opportunities. Throughout the course, students will explore and understand the responsibility of managing different functions of a business. This includes accounting, marketing, information and communication technology, financial management, human resources, and production.

Canadian and World Studies

Grade 10, Canadian History since World War I, Academic

Prerequisite - none

Grade 10, Canadian History since World War I – French Immersion, Academic

Prerequisite – Immersion students only

This course explores social, economic, and political developments and events and their impact on the lives of different individuals, groups, and communities, including First Nations, Métis, and Inuit individuals and communities, 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 identities, citizenship, and heritage in Canada. Students will develop an understanding of some of the political developments and government policies that have had a lasting impact on First Nations, Métis, and Inuit individuals and communities. 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.

Grade 10, Canadian History since World War I, Applied

Prerequisite - none

This course focuses on the social context of historical developments and events and how they have affected the lives of people in Canada, including First Nations, Métis, and Inuit individuals and communities, since 1914. Students will explore interactions between various communities in Canada as well as contributions of individuals and groups to heritage and identities in Canada. Students will develop an understanding of some key political developments and government policies that have had an impact on First Nations, Métis, and Inuit individuals and communities. 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 the continuing relevance of historical developments and how they have helped shape communities in present-day Canada.

Grade 10, Canadian History, Locally Developed

Prerequisite - none

This course focuses on the knowledge and skills that students need to be well prepared for success in Grade 11 and 12 Workplace Preparation courses. Students will be empowered to make meaningful connections between what they know and what they need to know. The course involves helping students to develop and apply historical inquiry and historical literacy skills to present-day situations in their local, national, and global world. The course supports students in becoming confident speakers, viewers, thinkers, writers, and readers of narrative (non-fiction) text and historical data.

Grade 10, Civics and Citizenship, Open

Prerequisite - none

Grade 10, Civics and Citizenship – French Immersion, Open

Prerequisite – Immersion students only

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.

Grade 10, First Nations, Métis, and Inuit in Canada, Open

Prerequisite - none

This course explores the histories of First Nations and Inuit in Canada from precontact, as well as Métis from their beginnings to the present day. Students will examine the continuing impact of past social, cultural, economic, political, and legal trends and developments on First Nations, Métis and Inuit individuals and communities. Students will apply the concepts of historical thinking and the historical inquiry process to investigate a range of issues, events, and interactions that have affected First Nations, Métis, and Inuit individuals and communities, including those that continue to affect relations between Indigenous and non-Indigenous peoples in Canada.

English

Grade 10, English, Academic

Prerequisite – ENL1W

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.

Grade 10, English, Applied

Prerequisite – ENL1W

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. This course is intended to prepare students for the compulsory Grade 11 college or workplace preparation course.

Grade 10, English, Locally Developed

Prerequisite – ENG1L

This course provides foundational literacy and communication skills to prepare students for success in their daily lives, in the workplace, and in the Grade 11 workplace course. This course is organized into strands that develop listening and speaking, reading, and viewing, and writing skills. In all strands, the focus is on developing foundational literacy skills and on using language clearly and accurately in a variety of authentic contexts. Students develop strategies and put into practice the processes involved in listening, speaking, reading, viewing, and writing, and reflect regularly upon their growth in these areas.

Grade 10, Literacy Skills: Reading and Writing, Open

Prerequisite – ENL1W or ENG1L

This course is designed to help students strengthen essential reading and writing skills, providing them with the extra literacy support they need to graduate. Students will read informational, graphic, and literary texts, with a focus on locating information, identifying main ideas and supporting details, building vocabulary, and consolidating skills in the application of key comprehension strategies. The course will also help students develop core learning strategies.

English as a Second Language

English as a Second Language Level 1, Open

Prerequisite – none

This course builds on students' previous education and language knowledge to introduce them to the English language and help them adjust to the diversity in their new environment. Students will use beginning English language skills in listening, speaking, reading, and writing for every-day and essential academic purposes. They will engage in short conversations using basic English language structures and simple sentence patterns; read short, adapted texts; and write phrases and short sentences. The course also provides students with the knowledge and skills they need to begin to adapt to their new lives in Canada.

English as a Second Language Level 2, Open

Prerequisite – ESLAO or equivalent

This course extends students' listening, speaking, reading, and writing skills in English for every-day and academic purposes. Students will participate in conversations in structured situations on a variety of familiar and new topics; read a variety of texts designed or adapted for English language learners; expand their knowledge of English grammatical structures and sentence patterns; and link English sentences to compose paragraphs. The course also supports students' continuing adaptation to the Ontario school system by expanding their knowledge of diversity in their new province and country.

English as a Second Language Level 3, Open

Prerequisite – ESLBO or equivalent

This course further extends students' skills in listening, speaking, reading, and writing in English for a variety of everyday and academic purposes. Students will make short classroom oral presentations; read a variety of adapted and original texts in English; and write using a variety of text forms. As well, students will expand their academic vocabulary and their study skills to facilitate their 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.

English as a Second Language Level 4, Open

Prerequisite – ESLCO or equivalent

This course prepares students to use English with increasing fluency and accuracy in classroom and social situations and to participate in Canadian society as informed citizens. Students will develop the oral presentation, reading, and writing skills required for success in all school subjects. They will extend listening and speaking skills through participation in 63 discussions and seminars; study and interpret a variety of grade-level texts; write narratives, articles, and summaries in English; and respond critically to a variety of print and media texts.

French as a Second Language

Grade 10, Immersion French, Academic

Prerequisite – FIF1DF

This course provides students with extensive opportunities to communicate, interact, and think critically and creatively in French. Students will use a variety of language learning strategies in listening, speaking, reading, and writing, and will respond to and interact with print, oral, visual, and electronic texts. Students will develop their knowledge of the French language through the study of contemporary French literature and historically well-known French European literature. They will also increase their understanding and appreciation of diverse French-speaking communities and will develop skills necessary for lifelong language learning.

Guidance and Career Education

Grade 10, Career Studies, Open

Prerequisite – none

Grade 10, Career Studies – French Immersion, Open

Prerequisite – Immersion students only

This 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 postsecondary 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.

Grade 10, Learning Strategies 1: Skills for Success in Secondary School, Open

Prerequisite – Recommendation of the principal

This course focuses on learning strategies to help students become better, more independent learners. Students will learn how to develop and apply literacy and numeracy skills, personal management skills, and interpersonal and teamwork skills to improve their learning and achievement in school, the workplace, and the community. The course helps students build confidence and motivation to pursue opportunities for success in secondary school and beyond.

Health and Physical Education

Grade 10, Healthy Active Living Education, Open

Prerequisite – none

Grade 10, Healthy Active Living Education – French Immersion, Open

Prerequisite – Immersion students only

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.

Grade 10, Healthy Living and Personal Fitness Activities, Open

Prerequisite – none

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.

Mathematics

Grade 10, Principles of Mathematics, Academic

Prerequisite – MTH1W

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.

Grade 10, Foundations of Mathematics, Applied

Prerequisite – MTH1W

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.

Grade 10, Mathematics, Locally Developed

Prerequisite – MAT1L

This course emphasizes the extension of mathematical knowledge and skills to prepare students for success in their everyday lives, in the workplace, and in the Grade 11 Mathematics Workplace Preparation course. The course is organized in three strands related to money sense, measurement, and proportional reasoning. In all strands, the focus is on strengthening and extending key foundational mathematical concepts and skills by solving authentic, everyday problems. Students have opportunities to extend their mathematical literacy and problem-solving skills and to continue developing their skills in reading, writing, and oral language through relevant and practical math activities.

International and Native Languages

Level A, Mohawk Language, Open

Prerequisite - none

This course is open to the entire student body and will allow students who have no prior Native language experience to develop an appreciation for a Native language and culture, to explore and experience a unique world view, and to learn to speak a Native language. Students will use the language being studied for greetings and daily routines, become familiar with its writing and sound system, and practise basic vocabulary and phrases. Students will also use information technology during course-related activities.

Level B, Mohawk Language, Open

Prerequisite – LNMAO or prior learning assessment

This course will enable students to experience the unique respect for life that permeates Native languages and cultures. Students will expand their vocabulary and knowledge of phrases and expressions, using them in simple dialogues, narrative writing, grammatical constructions, and reading, and to exchange information electronically. This course is open to any student who has successfully completed at least four years of elementary Native languages study, has successfully completed NL1, or demonstrates the required proficiency.

Level C, Mohawk Language, Open

Prerequisite – LNMBO or prior learning assessment

This course will provide students an opportunity to expand their knowledge of a Native language and of Native philosophy, spirituality, and values, and to enhance their identity and self-worth. Students will communicate by using a variety of phrases and expressions, create short conversations, skits, stories, and narratives, use information technology, and develop an awareness of the structural and functional workings of a Native language. This course is open to students who have successfully completed NL2 or who can demonstrate the required proficiency.

Level D, Mohawk Language, Open

Prerequisite – LNMCO or prior learning assessment

This course will provide students with opportunities to further develop their knowledge of a Native language and of Native philosophy, spirituality, and values, and to enhance their sense of identity and self-worth. Students will increase their vocabulary and their facility in using idioms, and will use the Native language to analyse literature, discuss various issues that affect the local community, and exchange information electronically.

Sciences

Grade 10, Science, Academic

Prerequisite – SNC1W

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.

Grade 10, Science, Applied

Prerequisite – SNC1W

This course enables students to develop a deeper understanding of concepts in biology, chemistry, earth and space science, and physics, and to apply their knowledge of science in real-world situations. Students are given opportunities to develop further practical skills in scientific investigation. Students will plan and conduct investigations into everyday problems and issues related to human cells and body systems; chemical reactions; factors affecting climate change; and the interaction of light and matter.

Technological Education

Grade 10, Communication Technology and the Skilled Trades, Open

Prerequisite - none

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.

Grade 10, Construction Technology and the Skilled Trades, Open

Prerequisite - none

This course introduces students to building materials and processes through opportunities to design and build various construction projects. Students will learn to create and read working drawings; become familiar with common construction materials, components, and processes; and perform a variety of fabrication, assembly, and finishing operations. They will use a variety of hand and power tools and apply knowledge of imperial and metric systems of measurement, 136 as appropriate. Students will develop an awareness of environmental and societal issues related to construction technology and will explore secondary and postsecondary pathways leading to careers in the industry.

Grade 10, Green Industries and the Skilled Trades, Open

Prerequisite - none

This course introduces students to the various sectors of the green industries – agriculture, forestry, horticulture, floristry, and landscaping. Using materials, processes, and techniques commonly employed in these industries, students will participate in a number of hands-on projects that may include plant or animal propagation; production, maintenance, and harvesting activities; the development of floral or landscaping designs; and/or related construction activities. Students will also develop an awareness of environmental and societal issues related to green industry activities, learn about safe and healthy working practices, and explore secondary and postsecondary education and training pathways and career opportunities in the various industry sectors.

Grade 10, Hospitality and Tourism and the Skilled Trades, Open

Prerequisite - none

This course provides students with opportunities to explore different areas of hospitality and tourism, as reflected in the various sectors of the tourism industry, with an emphasis on food service. Students will study culinary techniques of food handling and preparation, health and safety standards, the use of tools and equipment, the origins of foods, and event planning, and will learn about tourism attractions across Ontario. Students will develop an awareness of related environmental and societal issues and will explore secondary and postsecondary pathways leading to careers in the tourism industry.

Grade 10, Technological Design and the Skilled Trades, Open**Prerequisite - none**

This course provides students with opportunities to apply a design process to meet a variety of technological challenges. Students will research projects, create designs, build models and/or prototypes, and assess products and/or processes using appropriate tools, techniques, and strategies. Student projects may include designs for homes, vehicles, bridges, robotic arms, clothing, or other products. Students will develop an awareness of environmental and societal issues related to technological design and will learn about secondary and postsecondary education and training leading to careers in the field.

Grade 10, Transportation Technology and the Skilled Trades, Open**Prerequisite - none**

This course introduces students to the service and maintenance of vehicles, aircraft, and/or watercraft. Students will develop knowledge and skills related to the construction and operation of vehicle/craft systems and learn maintenance and repair techniques. Student projects may include the construction of a self-propelled vehicle or craft, engine service, tire/wheel service, electrical/battery service, and proper body care. Students will develop an awareness of related environmental and societal issues and will explore secondary and postsecondary pathways leading to careers in the transportation industry.

The Arts

Drama (Open)	ADA3O
Drama (University/College)	ADA3M
Music – Guitar (University/College)	AMG3M
Music – Instrumental (University/College)	AMU3M
Music – Vocal (University/College)	AMV3M
Visual Arts (Open)	AVI3O
Visual Arts (University/College)	AVI3M
Visual Arts - Photography	AWQ3O

Business Studies

Entrepreneurship: The Venture (College)	BDI3C
Financial Accounting Fundamentals (University/College)	BAF3M

Canadian and World Studies

Origins and Citizenship: The History of a Canadian Ethnic Group	CHE3O
The Individual and the Economy	CIE3M
Travel and Tourism: A Geographic Perspective (Open)	CGG3O
Understanding Canadian Law (University/College)	CLU3M
Understanding Canadian Law in Everyday Life (Workplace)	CLU3E

Cooperative Education

Cooperative Education Linked to a Related Course (or Courses)

English

English: Understanding Contemporary First Nations, Métis, and Inuit Voices (College)	NBE3C
English: Understanding Contemporary First Nations, Métis, and Inuit Voices (University)	NBE3U
English: Understanding Contemporary First Nations, Métis, and Inuit Voices (Workplace)	NBE3E

English as a Second Language

English as a Second Language – Level 1 (Open)	ESLAO
English as a Second Language – Level 2 (Open)	ESLBO
English as a Second Language – Level 3 (Open)	ESLCO
English as a Second Language – Level 4 (Open)	ESLDO

First Nations, Métis, and Inuit Studies

World Views and Aspirations of First Nations, Métis, and Inuit Communities in Canada	NBV3C
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French as a Second Language

French Immersion (University)	FIF3UF
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Health and Physical Education

Health for Life (College)	PPZ3C
Healthy Active Living Education (Open)	PPL3O
Healthy Active Living Education - Immersion (Open)	PPL3OF
Healthy Living and Individual and Small Group Activities (Open)	PAI3O
Healthy Living and Personal and Fitness Activities (Open)	PAF3O

Mathematics

Foundations for College Mathematics (College)	MBF3C
Functions (University)	MCR3U
Mathematics for Work and Everyday Life (Workplace)	MEL3E

International and Native Languages

Mohawk – Level 1 (Open)	LNMAO
Mohawk – Level 2 (Open)	LNMBO
Mohawk – Level 3 (Open)	LNMC O
Mohawk – Level 4 (Open)	LNMD O

Sciences

Biology (College)	SBI3C
Biology (University)	SBI3U
Chemistry (University)	SCH3U
Environmental Science	SVN3E
Physics (University)	SPH3U

Social Sciences and Humanities

Introduction to Anthropology, Sociology, and Psychology (College)	HSP3C
Introduction to Anthropology, Sociology, and Psychology (University)	HSP3U
Raising Healthy Children	HPC3O

Technological Education

Construction Engineering Technology (College)	TCJ3C
Custom Woodworking (Workplace)	TWJ3E
Green Industries (University/College)	THJ3M
Hairstyling and Aesthetics (Workplace)	TXJ3E
Health Care (College)	TPJ3C
Health Care (University/College)	TPJ3M
Hospitality and Tourism – Baking (Workplace)	TFB3E
Hospitality and Tourism (Workplace)	TFJ3E
Hospitality and Tourism: Culinary Arts & Management (College)	TFR3C
Transportation Technology: Vehicle Ownership (Open)	TTJ3O
Transportation Technology (College)	TTJ3C

The Arts

Grade 11, Drama, Open

Prerequisite - none

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.

Grade 11, Drama, University/College

Prerequisite – ADA10 or ADA20

This course requires students to create and perform in dramatic presentations. Students will analyse, interpret, and perform dramatic works from various cultures and time periods. Students will research various acting styles and conventions that could be used in their presentations, and analyse the functions of playwrights, directors, actors, designers, technicians, and audiences.

Grade 11, Music (General, Guitar, Voice), University/College

Prerequisite – Grade 9 or 10 Music (Open)

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 analysing 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.

Grade 11, Visual Arts, Open

Prerequisite - none

This course focuses on studio activities in one or more of the visual arts, including drawing, painting, sculpture, photography, printmaking, collage, and/or multimedia art. Students will use the creative process to create art works that reflect a wide range of subjects and will evaluate works using the critical analysis process. Students will also explore works of art within a personal, contemporary, historical, and cultural context.

Grade 11, Visual Arts, University/College

Prerequisite – AVI10 or AVI20

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, information design).

Grade 11, Visual Arts - Photography, Open

Prerequisite - none

Business Studies

Grade 11, Entrepreneurship: The Venture, College

Prerequisite - none

This course focuses on ways in which entrepreneurs recognize opportunities, generate ideas, and organize resources to plan successful ventures that enable them to achieve their goals. Students will create a venture plan for a school-based or student-run business. Through hands-on experiences, students will have opportunities to develop the values, traits, and skills most often associated with successful entrepreneurs.

Grade 11, Financial Accounting Fundamentals, University/College

Prerequisite - none

This course introduces students to the fundamental principles and procedures of accounting. Students will develop financial analysis and decision-making skills that will assist them in future studies and/or career opportunities in business. Students will acquire an understanding of accounting for a service and a merchandising business, computerized accounting, financial analysis, and ethics and current issues in accounting.

Canadian and World Studies

Grade 11, Origins and Citizenship: The History of a Canadian Ethnic Group, Open

Prerequisite – CHC2D, CHC2P, or CHC2L

This course focuses on the history of people who came to Canada from a specific country or region. Students will explore historical developments and events in the group's country of origin, the factors that influenced the decision of members of this group to emigrate, their historical experiences in Canada, and their contributions to Canadian identity and heritage. Students will apply the concepts of historical thinking and the historical inquiry process, including the interpretation and analysis of evidence, when investigating various aspects of the group's history.

Note: This course is to be developed and delivered with a focus, to be determined by the school, on the history of a specific ethnic group that now lives in Canada. However, with the school's approval, teachers may wish to allow some students to focus on one group, while other students focus on a different group.

Grade 11, The Individual and the Economy, University/College

Prerequisite – CHC2D or CHC2P

This course explores issues and challenges facing the Canadian economy as well as the implications of various responses to them. Students will explore the economic role of firms, workers, and government as well as their own role as individual consumers and contributors, and how all these roles affect stability and change in the Canadian economy. Students will apply the concepts of economic thinking and the economic inquiry process, including economic models, to investigate the impact of economic issues and decisions at the individual, regional, and national level.

Grade 11, Travel and Tourism: A Geographic Perspective, Open

Prerequisite - none

This course focuses on issues related to travel and tourism within and between various regions of the world. Students will investigate unique environmental, sociocultural, economic, and political characteristics of selected world regions. They will explore travel patterns and trends as well as tensions related to tourism and will predict future tourism destinations. Students will apply the concepts of geographic thinking and the geographic inquiry process, including spatial technologies, to investigate the impact of the travel industry on natural environments and human communities.

Grade 11, Understanding Canadian Law, University/College

Prerequisite – CHC2D or CHC2P

This course explores Canadian law, with a focus on legal issues that are relevant to the lives of people in Canada. Students will gain an understanding of laws relating to rights and freedoms in Canada; our legal system; and family, contract, employment, tort, and criminal law. Students will develop legal reasoning skills and will apply the concepts of legal thinking and the legal studies inquiry process when investigating a range of legal issues and formulating and communicating informed opinions about them.

Grade 11, Understanding Canadian Law in Everyday Life, Workplace

Prerequisite – CHC2D, CHC2P, or CHC2L

This course enables students to develop a practical understanding of laws that affect the everyday lives of people in Canada, including their own lives. Students will gain an understanding of the need for laws, and of their rights, freedoms, and responsibilities under Canadian law. Topics include laws relating to marriage, the workplace, cyberbullying, and criminal offences. Students will begin to develop legal reasoning skills and will apply the concepts of legal thinking and the legal studies inquiry process when investigating legal issues that are relevant to life in Canada today.

Cooperative Education

Grade 11, Cooperative Education Linked to a Related Course or Courses (2-credit or 4-credit)

Prerequisite – none

This course consists of a learning experience connected to a community and a cooperative education curriculum that incorporates relevant expectations from the student's related course (or courses). Students will develop skills, knowledge, and habits of mind that will support them in their learning, including their education and career/life planning, at school and beyond, today and in the future. Within the context of their experience connected to a community, students will apply, extend, and refine skills and knowledge acquired in their related course or courses and will apply skills, knowledge, and habits of mind that will protect and promote their health, safety, and well-being. They will create and implement a learning plan that meets their particular interests and needs, reflect on their learning, and make connections between their experience in the community and other aspects of their lives.

English

Grade 11, Understanding First Nations, Métis, and Inuit Voices, University

Prerequisite – ENG2D

This course explores themes, forms, and stylistic elements of a variety of literary, informational, graphic, oral, cultural, and media text forms emerging from First Nations, Métis, and Inuit cultures in Canada, and also examines the perspectives and influence of texts that relate to those cultures. In order to fully understand contemporary text forms and their themes of identity, relationship, and self-determination, sovereignty, or self-governance, students will analyse the changing use of text forms by Indigenous authors/creators from various periods and cultures in expressing ideas related to these themes. Students will also create oral, written, and media texts to explore their own ideas and understanding, focusing on the development of literacy, communication, and critical and creative thinking skills necessary for success in academic and daily life. The course is intended to prepare students for the compulsory Grade 12 English university or college preparation course.

Grade 11, Understanding First Nations, Métis, and Inuit Voices, College

Prerequisite – ENG2P

This course explores themes, forms, and styles of literary, informational, graphic, oral, cultural, and media text forms emerging from First Nations, Métis, and Inuit cultures in Canada, and also looks at the perspectives and influences of texts that relate to those cultures. In order to understand contemporary text forms and their themes of identity, relationship, and self-determination, sovereignty, or self-governance, students will study the use of text forms by Indigenous authors/creators from other periods in expressing ideas related to these themes. Students will also create oral, written, and media texts to explore their own ideas and understanding, focusing on the development of literacy, communication, and critical and creative thinking skills necessary for success in academic and daily life. The course is intended to prepare students for the compulsory Grade 12 English college preparation course.

Grade 11, Understanding First Nations, Métis, and Inuit Voices, Workplace

Prerequisite – ENG2L

This course explores themes, forms, and stylistic elements of literary, informational, graphic, oral, cultural, and media texts emerging from First Nations, Métis, and Inuit cultures in Canada, as well as some texts that relate to those cultures. In order to better understand contemporary texts, students will explore connections between traditional and contemporary text forms and cultural and community aspects of identity, relationships, and self-determination, sovereignty or self-governance. Students will also create oral, written, and media texts focusing on the development of literacy, communication, and critical thinking skills necessary for success in the workplace and daily life. The course is intended to prepare students for the compulsory Grade 12 English workplace preparation course.

English as a Second Language

English as a Second Language Level 1, Open

Prerequisite – none

This course builds on students' previous education and language knowledge to introduce them to the English language and help them adjust to the diversity in their new environment. Students will use beginning English language skills in listening, speaking, reading, and writing for every-day and essential academic purposes. They will engage in short conversations using basic English language structures and simple sentence patterns; read short, adapted texts; and write phrases and short sentences. The course also provides students with the knowledge and skills they need to begin to adapt to their new lives in Canada.

English as a Second Language Level 2, Open

Prerequisite – ESLAO or equivalent

This course extends students' listening, speaking, reading, and writing skills in English for every-day and academic purposes. Students will participate in conversations in structured situations on a variety of familiar and new topics; read a variety of texts designed or adapted for English language learners; expand their knowledge of English grammatical structures and sentence patterns; and link English sentences to compose paragraphs. The course also supports students' continuing adaptation to the Ontario school system by expanding their knowledge of diversity in their new province and country.

English as a Second Language Level 3, Open

Prerequisite – ESLBO or equivalent

This course further extends students' skills in listening, speaking, reading, and writing in English for a variety of everyday and academic purposes. Students will make short classroom oral presentations; read a variety of adapted and original texts in English; and write using a variety of text forms. As well, students will expand their academic vocabulary and their study skills to facilitate their 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.

English as a Second Language Level 4, Open

Prerequisite – ESLCO or equivalent

This course prepares students to use English with increasing fluency and accuracy in classroom and social situations and to participate in Canadian society as informed citizens. Students will develop the oral presentation, reading, and writing skills required for success in all school subjects. They will extend listening and speaking skills through participation in 63 discussions and seminars; study and interpret a variety of grade-level texts; write narratives, articles, and summaries in English; and respond critically to a variety of print and media texts.

First Nations, Métis, and Inuit Studies

Grade 11, World Views and Aspirations of First Nations, Métis, and Inuit Communities in Canada, College

Prerequisite – CHC2D, CHC2P, or NAC2O

This course explores the diverse knowledge, world views, and aspirations that shape the actions of First Nations, Métis, and Inuit individuals and communities in Canada. Students will examine the historical and contemporary context of those beliefs, values, aspirations, and actions, including the impact of colonization and decolonization. Students will explore the factors that shape world views to develop an understanding of how acknowledging diverse cultures, values, and ways of knowing contributes to truth, reconciliation, and renewed nation-to-nation relationships. Students are also given the opportunity to develop their own problem-solving strategies to build mutual understanding related to First Nations, Métis, and Inuit world views and aspirations.

French as a Second Language

Grade 11, French Immersion, University

Prerequisite – FIF2DF

This course provides opportunities for students to consolidate the communication skills required to speak and interact with increasing confidence and accuracy in French in a variety of academic and social contexts. Students will use their skills in listening, speaking, reading, and writing and apply language learning strategies while exploring a variety of concrete and abstract topics. Students will increase their knowledge of the French language through the study of French literature from around the world. They will also deepen their understanding and appreciation of diverse French-speaking communities and will develop skills necessary for lifelong language learning.

Health and Physical Education

Grade 11, Health for Life, College

Prerequisite – none

This course enables students to examine the factors that influence their own health practices and behaviours as well as those factors that contribute to the development of healthy communities. It emphasizes the concept of wellness, which addresses all aspects of well-being – physical, cognitive, emotional, spiritual and social – and promotes healthy eating, physical activity, and building and maintaining a positive sense of self. Students will develop the skills necessary to make healthy choices and create a personal wellness plan. They will also design initiatives that encourage others to lead healthy, active lives. The course prepares students for college programs in health sciences, fitness, wellness, and health promotion.

Grade 11, Healthy Active Living Education, Open

Prerequisite - none

Grade 11, Healthy Active Living Education – French Immersion, Open

Prerequisite – Immersion students only

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.

Grade 11, Healthy Living and Individual and Small Group Activities, Open

Prerequisite - none

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.

Grade 11, Healthy Living and Personal Fitness Activities, Open

Prerequisite - none

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.

Mathematics

Grade 11, Foundations for College Mathematics, College

Prerequisite – MFM2P

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.

Grade 11, Functions, University

Prerequisite – MPM2D

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.

Grade 11, Mathematics for Work and Everyday Life, Workplace

Prerequisite – MAT2L

This course enables students to broaden their understanding of mathematics as it is applied in the workplace and daily life. Students will solve problems associated with earning money, paying taxes, and making purchases; apply calculations of simple and compound interest in saving, investing, and borrowing; and calculate the costs of transportation and travel in a variety of situations. Students will consolidate their mathematical skills as they solve problems and communicate their thinking.

International and Native Languages

Level A, Mohawk Language, Open

Prerequisite - none

This course is open to the entire student body and will allow students who have no prior Native language experience to develop an appreciation for a Native language and culture, to explore and experience a unique world view, and to learn to speak a Native language. Students will use the language being studied for greetings and daily routines, become familiar with its writing and sound system, and practise basic vocabulary and phrases. Students will also use information technology during course-related activities.

Level B, Mohawk Language, Open

Prerequisite – LNMAO or prior learning assessment

This course will enable students to experience the unique respect for life that permeates Native languages and cultures. Students will expand their vocabulary and knowledge of phrases and expressions, using them in simple dialogues, narrative writing, grammatical constructions, and reading, and to exchange information electronically. This course is open to any student who has successfully completed at least four years of elementary Native languages study, has successfully completed NL1, or demonstrates the required proficiency.

Level C, Mohawk Language, Open

Prerequisite – LNMBO or prior learning assessment

This course will provide students an opportunity to expand their knowledge of a Native language and of Native philosophy, spirituality, and values, and to enhance their identity and self-worth. Students will communicate by using a variety of phrases and expressions, create short conversations, skits, stories, and narratives, use information technology, and develop an awareness of the structural and functional workings of a Native language. This course is open to students who have successfully completed NL2 or who can demonstrate the required proficiency.

Level D, Mohawk Language, Open

Prerequisite – LNMCO or prior learning assessment

This course will provide students with opportunities to further develop their knowledge of a Native language and of Native philosophy, spirituality, and values, and to enhance their sense of identity and self-worth. Students will increase their

vocabulary and their facility in using idioms, and will use the Native language to analyse literature, discuss various issues that affect the local community, and exchange information electronically.

Sciences

Grade 11, Biology, College

Prerequisite – SNC2D or SNC2P

This course focuses on the processes that occur in biological systems. Students will learn concepts and theories as they conduct investigations in the areas of cellular biology, microbiology, genetics, the anatomy of mammals, and the structure of plants and their role in the natural environment. Emphasis will be placed on the practical application of concepts, and on the skills needed for further study in various branches of the life sciences and related fields.

Grade 11, Biology, University

Prerequisite – SNC2D

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.

Grade 11, Chemistry, University

Prerequisite – SNC2D

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.

Grade 11, Environmental Science, Workplace

Prerequisite – any Gr.9 science

This course provides students with the fundamental knowledge of and skills relating to environmental science that will help them succeed in work and life after secondary school. Students will explore a range of topics, including the impact of human activities on the environment; human health and the environment; energy conservation; resource science and management; and safety and environmental responsibility in the workplace. Emphasis is placed on relevant, practical applications and current topics in environmental science, with attention to the refinement of students' literacy and mathematical literacy skills as well as the development of their scientific and environmental literacy.

Grade 11, Physics, University

Prerequisite – SNC2D

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.

Social Sciences and Humanities

Grade 11, Introduction to Anthropology, Sociology, and Psychology (College)

Prerequisite – none

This course introduces students to theories, questions, and issues related to anthropology, psychology, and sociology. Students learn about approaches and research methods used by social scientists. Students will be given opportunities to apply theories from a variety of perspectives, to conduct social science research, and to become familiar with current issues within the three disciplines.

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

Prerequisite – ENG2D or CHC2D

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 research, and to become familiar with current thinking on a range of issues within the three disciplines.

Grade 11, Raising Healthy Children (Open)

Prerequisite – none

This course focuses on the skills and knowledge parents, guardians, and caregivers need, with particular emphasis on maternal health, pregnancy, birth, and the early years of human development (birth to six years old). Through study and practical experience, students will learn how to meet the developmental needs of young children, communicate with them, and effectively guide their early behaviour. Students will develop their research skills through investigations related to caregiving and child rearing.

Technological Education

Grade 11, Construction Engineering Technology, College

Prerequisite – none

This course focuses on the development of knowledge and skills related to residential construction. Students will gain hands-on experience using a variety of construction materials, processes, tools, and equipment; learn about building design and planning construction projects; create and interpret working drawings and sections; and learn how the Ontario Building Code and other regulations and standards apply to construction projects. Students will also develop an awareness of environmental and societal issues related to construction technology and will explore career opportunities in the field.

Grade 11, Custom Woodworking, Workplace

Prerequisite – none

This course enables students to develop knowledge and skills related to cabinet making and furniture making. Students will gain practical experience using a variety of the materials, tools, equipment, and joinery techniques associated with custom woodworking. Students will learn to create and interpret technical drawings and will plan, design, and fabricate projects. They will also develop an awareness of environmental and societal issues related to the woodworking industry, and will explore apprenticeships, postsecondary training, and career opportunities in the field that may be pursued directly after graduation.

Grade 11, Green Industries, University/College

Prerequisite – none

This course enables students to develop knowledge and skills related to agriculture, forestry, horticulture, and landscaping. Students will study the identification, growth, and management of plants and animals and develop process, design, and management skills required in the green industries. Students will also examine social and economic issues related to the green industries, learn about safe and healthy working practices, study industry standards and codes, and will explore postsecondary education programs and career opportunities.

Grade 11, Hairstyling and Aesthetics, Workplace

Prerequisite – none

This course enables students to develop knowledge and skills in cosmetology and offers a variety of applications that will equip students to provide services for a diverse clientele. Students will identify trends in the hairstyling and aesthetics industry, learn about related health and safety laws, and expand their communication and interpersonal skills through interactions with peers and clients. Students will also consider environmental and societal issues related to the industry and will acquire a more detailed knowledge of apprenticeships and direct-entry work positions.

Grade 11, Health Care, College

Prerequisite – none

This course enables students to develop their understanding of basic health care procedures, including the safe use of appropriate instruments, equipment, and materials. Students will focus on health care fundamentals, including health care terminology and the anatomical features and physiology of some major body systems. Students will develop an awareness of health and safety issues in the health care field, environmental and societal issues related to health care, professional practice standards, and career opportunities in the field.

Grade 11, Health Care, University/College

Prerequisite – none

This course enables students to develop their understanding of basic health care procedures, including the safe use of appropriate instruments, equipment, and materials. Students will focus on health care fundamentals, including the anatomical features and physiology of the major body systems and the factors that affect homeostasis in the human body. Students will develop an awareness of health and safety issues in the health care field, analyse environmental and societal issues related to health care, and learn about professional practice standards and career opportunities in the field.

Grade 11, Hospitality and Tourism - Baking, Workplace

Prerequisite – none

Grade 11, Hospitality and Tourism, Workplace

Prerequisite – none

This course enables students to acquire knowledge and skills related to the food and beverage services sector of the tourism industry. Students will learn how to prepare, present, and serve food using a variety of tools and equipment, and will develop an understanding of the fundamentals of providing high-quality service to ensure customer satisfaction and the components of running a successful event or activity. Students will develop an awareness of health and safety practices, environmental and societal issues, and career opportunities in the food and beverage services sector.

Grade 11, Hospitality and Tourism – Culinary Arts and Management, College

Prerequisite – none

Grade 11, Transportation Technology, College

Prerequisite – none

This course enables students to develop technical knowledge and skills as they study, test, service, and repair engine, electrical, suspension, brake, and steering systems on vehicles, aircraft, and/or watercraft. Students will develop communication and teamwork skills through practical tasks, using a variety of tools and equipment. Students will develop an awareness of environmental and societal issues related to transportation and will learn about apprenticeship and college programs leading to careers in the transportation industry.

Grade 11, Transportation Technology – Vehicle Ownership, Open

Prerequisite – none

This general interest course enables students to become familiar with the options and features of various vehicles, issues of registration, and the legal requirements affecting vehicle owners. Students will also learn about vehicle financing and insurance, vehicle maintenance, emergency procedures, and the responsibilities of being a vehicle owner. Students will develop an awareness of environmental and societal issues related to vehicle ownership and use and will explore career opportunities in the transportation industry.

The Arts

Drama (University/College)	ADA4M
Music – Guitar (University/College)	AMG4M
Music – Instrumental (University/College)	AMU4M
Music – Vocal (University/College)	AMV4M
Visual Arts (University/College)	AVI4M
Visual Arts: Film and Video (University/College) - online	AWR4MU

Canadian and World Studies

Canada: History, Identity, and Culture	CHI4U
Living in a Sustainable World (Workplace)	CGR4E

Cooperative Education

Cooperative Education Linked to a Related Course (or Courses)

English

English (College)	ENG4C
English (University)	ENG4U
English (Workplace)	ENG4E
Ontario Secondary School Literacy Course	OLC4O

English as a Second Language

English as a Second Language – Level 1 (Open)	ESLAO
English as a Second Language – Level 2 (Open)	ESLBO
English as a Second Language – Level 3 (Open)	ESLCO
English as a Second Language – Level 4 (Open)	ESLDO

First Nations, Métis, and Inuit Studies

Contemporary Indigenous Issues and Perspectives in a Global Context (University/College)	NDW4M
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French as a Second Language

French Immersion (University)	FIF4UF
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Health and Physical Education

Healthy Active Living Education (Open)	PPL4O
Healthy Active Living Education - Immersion (Open)	PPL4OF
Healthy Living and Individual and Small Group Activities	PAI4O
Healthy Living and Personal and Fitness Activities (Open)	PAF4O
Recreation and Healthy Active Living Leadership	PLF4M

Mathematics

Advanced Functions (University)	MHF4U
Calculus and Vectors (University)	MCV4U
Foundations for College Mathematics (College)	MAP4C
Mathematics for Work and Everyday Life (Workplace)	MEL4E
Mathematics of Data Management (University)	MDM4U

Interdisciplinary Studies

Interdisciplinary Studies	IDC4U
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International and Native Languages

Mohawk – Level 1 (Open)	LNMAO
Mohawk – Level 2 (Open)	LNMB0
Mohawk – Level 3 (Open)	LNMC0
Mohawk – Level 4 (Open)	LNMD0

Sciences

Biology (University)	SBI4U
Chemistry (College)	SCH4C
Chemistry (University)	SCH4U
Physics (College)	SPH4C
Physics (University)	SPH4U

Social Sciences and Humanities

Challenge and Change in Society	HSB4U
Equity and Social Justice	HSE4M
Personal Life Management (Open)	HIP4O

Technological Education

Construction Engineering Technology (College)	TCJ4C
Custom Woodworking (Workplace)	TWJ4E
Green Industries	THJ4M
Hairstyling and Aesthetics (Workplace)	TXJ4E
Health Care (University/College)	TFJ4M
Hospitality and Tourism (Workplace)	TFJ4E
Hospitality and Tourism: Culinary Arts & Management (College)	TFR4C
Transportation Technology (College)	TTJ4C
Transportation Technology: Vehicle Maintenance (Open)	TTJ4E

The Arts

Grade 12, Drama, University/College

Prerequisite – ADA3M

This course requires students to experiment individually and collaboratively with forms and conventions of both drama and theatre from various cultures and time periods. Students will interpret dramatic literature and other texts and media sources while learning about various theories of directing and acting. Students will examine the significance of dramatic arts in various cultures and will analyse how the knowledge and skills developed in drama are related to their personal skills, social awareness, and goals beyond secondary school.

Grade 12, Music (General, Guitar, Voice), University/College

Prerequisite – 3M music

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 analyse how to apply skills developed in music to their life and careers.

Grade 12, Visual Arts, University/College

Prerequisite – AVI3M

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.

Grade 12, Visual Arts – Film Studies, Open (online)

Prerequisite – AWR3M

Love movies? This course is an introduction to the art, history, and analysis of film. Students will learn about the technical, aesthetic, and cultural elements of modern films and will develop the skills necessary to analyze and interpret films. The course will cover a range of film movements, styles, and genres and will consider the ways in which films reflect and shape the societies in which they are produced.

Canadian and World Studies

Grade 12, Canada: History, Identity, and Culture (University)

Prerequisite – any University or University/College course in Cdn & World Studies, English, or Social Sciences/Humanities

This course traces the history of Canada, with a focus on the evolution of our national identity and culture as well as the identity and culture of various groups that make up Canada. Students will explore various developments and events, both national and international, from precontact to the present, and will examine various communities in Canada and how they have contributed to the development of identity and heritage in Canada. Students will investigate the development of culture and identity, including national identity, in Canada and how and why they have changed throughout the country's history. They will extend their ability to apply the concepts of historical thinking and the historical inquiry process, including the interpretation and analysis of evidence, as they investigate the people, events, and forces that have shaped Canada.

Grade 12, Living in a Sustainable World, Workplace

Prerequisite – CGC1D or CGC1P

This course examines the impact of human activity on the natural environment. Students will explore the use of natural spaces and resources and the effects of planning decisions and consumer choices on natural systems. Students will apply the concepts of geographic thinking and the geographic inquiry process, including spatial technologies, to investigate practical solutions to environmental issues, enabling them to make more sustainable decisions at home, in the workplace, and in the local community.

Cooperative Education

Grade 12, Cooperative Education Linked to a Related Course or Courses (2-credit or 4-credit)

Prerequisite – none

This course consists of a learning experience connected to a community and a cooperative education curriculum that incorporates relevant expectations from the student's related course (or courses). Students will develop skills, knowledge, and habits of mind that will support them in their learning, including their education and career/life planning, at school and beyond, today and in the future. Within the context of their experience connected to a community, students will apply, extend, and refine skills and knowledge acquired in their related course or courses and will apply skills, knowledge, and habits of mind that will protect and promote their health, safety, and well-being. They will create and implement a learning plan that meets their particular interests and needs, reflect on their learning, and make connections between their experience in the community and other aspects of their lives.

English

Grade 12, English, College

Prerequisite – NBE3C or ENG3C

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. The course is intended to prepare students for college or the workplace.

Grade 12, English, University

Prerequisite – NBE3U or ENG3U

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 analyse 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.

Grade 12, English, Workplace

Prerequisite – NBE3E or ENG3E

This course emphasizes the consolidation of literacy, communication, and critical and creative thinking skills necessary for success in the workplace and in daily life. Students will analyse informational, graphic, and literary texts and create oral, written, and media texts in a variety of forms for workplace-related and practical purposes. An important focus will be on using language accurately and organizing ideas and information coherently. The course is intended to prepare students for the workplace and active citizenship.

Grade 12, Ontario Secondary School Literacy Course, Open

Prerequisite – 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. (Students who have already met the literacy requirement for graduation may be eligible to take the course under special circumstances, at the discretion of the principal.)

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.

English as a Second Language

English as a Second Language Level 1, Open

Prerequisite – none

This course builds on students' previous education and language knowledge to introduce them to the English language and help them adjust to the diversity in their new environment. Students will use beginning English language skills in listening, speaking, reading, and writing for every-day and essential academic purposes. They will engage in short conversations using basic English language structures and simple sentence patterns; read short, adapted texts; and write phrases and short sentences. The course also provides students with the knowledge and skills they need to begin to adapt to their new lives in Canada.

English as a Second Language Level 2, Open

Prerequisite – ESLAO or equivalent

This course extends students' listening, speaking, reading, and writing skills in English for every-day and academic purposes. Students will participate in conversations in structured situations on a variety of familiar and new topics; read a variety of texts designed or adapted for English language learners; expand their knowledge of English grammatical structures and sentence patterns; and link English sentences to compose paragraphs. The course also supports students' continuing adaptation to the Ontario school system by expanding their knowledge of diversity in their new province and country.

English as a Second Language Level 3, Open

Prerequisite – ESLBO or equivalent

This course further extends students' skills in listening, speaking, reading, and writing in English for a variety of everyday and academic purposes. Students will make short classroom oral presentations; read a variety of adapted and original texts in English; and write using a variety of text forms. As well, students will expand their academic vocabulary and their study skills to facilitate their 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.

English as a Second Language Level 4, Open

Prerequisite – ESLCO or equivalent

This course prepares students to use English with increasing fluency and accuracy in classroom and social situations and to participate in Canadian society as informed citizens. Students will develop the oral presentation, reading, and writing skills required for success in all school subjects. They will extend listening and speaking skills through participation in 63 discussions and seminars; study and interpret a variety of grade-level texts; write narratives, articles, and summaries in English; and respond critically to a variety of print and media texts.

First Nations, Métis, and Inuit Studies

Grade 12, Contemporary Indigenous Issues and Perspectives in a Global Context, University/College

Prerequisite – any U, M, or C course in FNMI Studies, Social Sciences/Humanities, or Cdn & World Studies

This course examines global issues from the perspectives of Indigenous peoples. Students will explore the depth and diversity of Indigenous cultures, traditions, and knowledge. Students will consider how diverse Indigenous communities persevere despite current global environmental and economic trends, and will investigate topics such as identity, social justice, human rights and abuses, spirituality, resilience, and advocacy for change.

French as a Second Language

Grade 12, French Immersion, University

Prerequisite – FIF3UF

This course provides students with extensive opportunities to communicate, interact, and think critically and creatively in French. Students will consolidate their listening, speaking, reading, and writing skills and apply language learning strategies while communicating about concrete and abstract topics, and will independently respond to and interact with a variety of oral and written texts. Students will study a selection of French literature from the Middle Ages to the present. They will also enrich their understanding and appreciation of diverse French-speaking communities and will develop skills necessary for lifelong language learning.

Health and Physical Education

Grade 12, Healthy Active Living Education, Open

Prerequisite - none

Grade 12, Healthy Active Living Education – French Immersion, Open

Prerequisite – Immersion students only

This course enables students to further develop the knowledge and skills they need to make healthy choices. It places special emphasis on how students can maintain the habits of healthy, active living throughout their lives as they make the transition to adulthood and independent living. Through participation in a wide range of physical activities in a variety of settings, students can 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.

Grade 12, Healthy Living and Individual and Small Group Activities, Open

Prerequisite - none

Grade 12, Healthy Living and Personal Fitness Activities, Open

Prerequisite – none

Grade 12, Recreation and Healthy Active Living Leadership, University/College

Prerequisite – any Health and Physical Education course

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 recreational 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.

Mathematics

Grade 12, Advanced Functions, University

Prerequisite – MCR3U

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.

Grade 12, Calculus and Vectors, University

Corequisite – MHF4U

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, sinusoidal, exponential, rational, and radical 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.

Grade 12, Foundations for College Mathematics, College

Prerequisite – MBF3C or MCF3M

This course enables students to broaden their understanding of real-world applications of mathematics. Students will analyse data using statistical methods; solve problems involving applications of geometry and trigonometry; solve financial problems connected with annuities, budgets, and renting or owning accommodation; simplify expressions; and solve equations. Students will reason mathematically and communicate their thinking as they solve multi-step problems. This course prepares students for college programs in areas such as business, health sciences, and human services, and for certain skilled trades.

Grade 12, Mathematics for Work and Everyday Life, Workplace

Prerequisite – MEL3E

This course enables students to broaden their understanding of mathematics as it is applied in the workplace and daily life. Students will investigate questions involving the use of statistics; apply the concept of probability to solve problems involving familiar situations; investigate accommodation costs, create household budgets, and prepare a personal income tax return; use proportional reasoning; estimate and measure; and apply geometric concepts to create designs. Students will consolidate their mathematical skills as they solve problems and communicate their thinking.

Grade 12, Mathematics of Data Management, University

Prerequisite – MCR3U

This course broadens students' understanding of mathematics as it relates to managing data. Students will apply methods for organizing and analysing large amounts of information; solve problems involving probability and statistics; and carry out a culminating investigation 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.

Interdisciplinary Studies

Grade 12, Interdisciplinary Studies, University

Prerequisite – any U- or M-level course

This course will help students develop and consolidate the skills required for and knowledge of different subjects and disciplines to solve problems, make decisions, create personal meaning, and present findings beyond the scope of a single subject or discipline. Students will apply the principles and processes of inquiry and research to effectively use a range of print, electronic, and mass media resources; to analyse historical innovations and exemplary research; and to investigate real-life situations and career opportunities in interdisciplinary endeavours. They will also assess their own cognitive and affective strategies, apply general skills in both familiar and new contexts, create innovative products, and communicate new knowledge.

International and Native Languages

Level A, Mohawk Language, Open

Prerequisite - none

This course is open to the entire student body and will allow students who have no prior Native language experience to develop an appreciation for a Native language and culture, to explore and experience a unique world view, and to learn to speak a Native language. Students will use the language being studied for greetings and daily routines, become familiar with its writing and sound system, and practise basic vocabulary and phrases. Students will also use information technology during course-related activities.

Level B, Mohawk Language, Open

Prerequisite – LNMAO or prior learning assessment

This course will enable students to experience the unique respect for life that permeates Native languages and cultures. Students will expand their vocabulary and knowledge of phrases and expressions, using them in simple dialogues, narrative writing, grammatical constructions, and reading, and to exchange information electronically. This course is open to any student who has successfully completed at least four years of elementary Native languages study, has successfully completed NL1, or demonstrates the required proficiency.

Level C, Mohawk Language, Open

Prerequisite – LNMBO or prior learning assessment

This course will provide students an opportunity to expand their knowledge of a Native language and of Native philosophy, spirituality, and values, and to enhance their identity and self-worth. Students will communicate by using a variety of phrases and expressions, create short conversations, skits, stories, and narratives, use information technology, and develop an awareness of the structural and functional workings of a Native language. This course is open to students who have successfully completed NL2 or who can demonstrate the required proficiency.

Level D, Mohawk Language, Open

Prerequisite – LNMCO or prior learning assessment

This course will provide students with opportunities to further develop their knowledge of a Native language and of Native philosophy, spirituality, and values, and to enhance their sense of identity and self-worth. Students will increase their vocabulary and their facility in using idioms, and will use the Native language to analyse literature, discuss various issues that affect the local community, and exchange information electronically.

Sciences

Grade 12, Biology, University

Prerequisite – SBI3U

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.

Grade 12, Chemistry, College

Prerequisite – SNC2D or SNC2P

This course enables students to develop an understanding of chemistry through the study of matter and qualitative analysis, organic chemistry, electrochemistry, chemical calculations, and chemistry as it relates to the quality of the environment. Students will use 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 the effects of technological applications and processes on society and the environment.

Grade 12, Chemistry, University

Prerequisite – SCH3U

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.

Grade 12, Physics, College

Prerequisite – SNC2D or SNC2P

This course develops students' understanding of the basic concepts of physics. Students will explore these concepts with respect to motion; mechanical, electrical, electromagnetic, energy transformation, hydraulic, and pneumatic systems; and the operation of commonly used tools and machines. They will develop their scientific investigation skills as they test 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.

Grade 12, Physics, University

Prerequisite – SPH3U

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.

Social Sciences and Humanities

Grade 12, Challenge and Change in Society, University

Prerequisite – any University or University/College course in Cdn & World Studies, English, or Social Sciences/Humanities

This course focuses on the use of social science theories, perspectives, and methodologies to investigate and explain shifts in knowledge, attitudes, beliefs, and behaviour and their impact on society. Students will critically analyse how and why cultural, social, and behavioural patterns change over time. They will explore the ideas of social theorists and use those ideas to analyse causes of and responses to challenges such as technological change, deviance, and global inequalities. Students will explore ways in which social science research methods can be used to study social change.

Grade 12, Equity and Social Justice: From Theory to Practice, University/College

Prerequisite – any University or University/College course in Cdn & World Studies, English, or Social Sciences/Humanities

This course enables students to develop an understanding of the theoretical, social, and historical underpinnings of various equity and social justice issues and to analyse strategies for bringing about positive social change. Students will learn about historical and contemporary equity and social justice issues in Canada and globally. They will explore power relations and the impact of a variety of factors on equity and social justice. Students will develop and apply research skills and will design and implement a social action initiative relating to an equity or social justice issue.

Grade 12, Personal Life Management, University/College

Prerequisite – none

This course focuses on preparing students for living independently and working successfully with others. Students will learn to manage their personal resources to meet their basic needs for food, clothing, and housing. They will also learn about their personal, legal, and financial responsibilities and develop and apply interpersonal skills in order to make wise and responsible personal and occupational choices. Students will apply research and inquiry skills while investigating topics related to personal life management. The course emphasizes the achievement of expectations through practical experiences.

Technological Education

Grade 12, Construction Engineering Technology, College

Prerequisite – TCJ3C

This course enables students to further develop knowledge and skills related to residential construction and to explore light commercial construction. Students will gain hands-on experience using a variety of materials, processes, tools, and equipment, and will learn more about building design and project planning. They will continue to create and interpret construction drawings and will extend their knowledge of construction terminology and of relevant building codes and regulations, as well as health and safety standards and practices. 137 Students will also focus on environmental and societal issues related to construction engineering technology and will explore career opportunities in the field.

Grade 12, Custom Woodworking, Workplace

Prerequisite – TWJ3E

This course enables students to further develop knowledge and skills related to the planning, design, and construction of residential and/or commercial cabinets and furniture. Students will gain further experience in the safe use of common woodworking materials, tools, equipment, finishes, and hardware, and will learn about the entrepreneurial skills needed to establish and operate a custom woodworking business. Students will also expand their awareness of health and safety issues and environmental and societal issues related to woodworking and will explore career opportunities that may be pursued directly after graduation.

Grade 12, Green Industries, University/College

Prerequisite – THJ3M

This course focuses on more complex concepts and skills related to the green industries. Students will focus on developing process skills, design and management techniques, and ways of enhancing environmental sustainability. They will also examine social and economic issues related to the green industries, learn about safe and healthy working practices, study industry standards and codes, and explore career opportunities. The knowledge and skills acquired in this course will prepare students for more specialized studies at the college and university level.

Grade 12, Hairstyling and Aesthetics, Workplace

Prerequisite – TXJ3E

This course enables students to develop increased proficiency in a wide range of hairstyling and aesthetics services. Working in a salon/spa team environment, students will strengthen their fundamental cosmetology skills and develop an understanding of common business practices and strategies in the salon/spa industry. Students will also expand their understanding of environmental and societal issues and their knowledge of postsecondary destinations in the hairstyling and aesthetics industry.

Grade 12, Health Care, University/College

Prerequisite – TPJ3M

This course focuses on the development of a range of skills needed to analyse and interpret clinical findings. Students will learn about accepted health care practices and demonstrate an understanding of basic procedures and the use of appropriate instruments and equipment. They will acquire an understanding of basic concepts related to the function of the human immune system and explore the relationship between pathology and disease prevention and treatment. Students will expand their awareness of workers' health and safety issues, analyse environmental and societal issues related to health care, and further explore professional practice standards and postsecondary destinations in the field.

Grade 12, Hospitality and Tourism, Workplace

Prerequisite – TFI3E

This course enables students to further develop knowledge and skills related to the food and beverage services sector of the tourism industry. Students will demonstrate proficiency in using food preparation and presentation tools and equipment; plan nutritious menus, create recipes, and prepare and present finished food products; develop customer service skills; and explore event and activity planning. Students will expand their awareness of health and safety practices, environmental and societal issues, and career opportunities in the food and beverage services sector.

Grade 12, Hospitality and Tourism – Culinary Arts and Management, College

Prerequisite – TFR3C

Grade 12, Transportation Technology, College

Prerequisite – TTJ3C

This course enables students to further develop technical knowledge and skills as they study, test, service, and repair engine management systems; powertrains; steering/control, suspension, brake, and body systems on vehicles, aircraft, and/or watercraft; and/or small engine products. Students will refine communication and teamwork skills through practical tasks, using a variety of tools and equipment. Students will expand their awareness of environmental and societal issues related to transportation and their knowledge of apprenticeship and college programs leading to careers in the transportation industry.


Grade 12, Transportation Technology – Vehicle Maintenance, Workplace

Prerequisite – none

This course introduces students to the servicing, repair, and maintenance of vehicles through practical applications. The course is appropriate for all students as a general interest course to prepare them for future vehicle operation, care, and maintenance or for entry into an apprenticeship in the motive power trades. Students will develop an awareness of environmental and societal issues related to transportation and will learn about careers in the transportation industry and the skills and training required for them.



Credit Requirements – Arts & Culture

		Grade 11		Grade 12	
English Credit 1 credit (Gr. 11 or Gr. 12)		ENG 3E, ENG 3C, ENG 3U NBE 3E, NBE 3C, NBE 3U		ENG 4E, ENG 4C, ENG 4U, OLC 4O	
Major Credits 4 credits (at least one Gr. 12)	Drama	ADA 3M ADA 3O	Drama ADA 4M ADF 4M ADG 4M	Guitar	AMG 4M
	Guitar	AMG 3M		Guitar	AMG 4M
	Instrumental Music	AMU 3M	Instrumental Music	AMU 4M	
	Vocal Music	AMV 3M AMV 3O	Vocal Music	AMV 4M	
	Media Arts	ASM 3M ASM 3O	Media Arts	ASM 4M	
	Dance	ATC 3M ATC 3O	Dance	ATC 4M	
	Visual Arts	AVI 3M AVI 3O	Visual Arts	AVI 4M	
	Photography	AWQ 3O	Canadian & World Issues	CGW 4U	
	Travel & Tourism	CGG 3O	World History	CHY 4U	
	World History	CHW 3M	Writers' Craft	EWC 4C EWC 4U	
	Leadership	GPP 3O	French	FIF 4U	
	Anthro/Psych/Soc	HSP 3C HSP 3U	Computer Science	ICS 4C ICS 4U	
	Computer Science	ICS 3C ICS 3U	Leadership	IDC 4U	
	Native Languages	LNM AO LNM BO LNM CO LNM DO LNM EO	Native Languages	LNM AO LNM BO LNM CO LNM DO LNM EO	
				Aboriginal Studies	NDW 4M
				Construction Tech	TCJ 4C
				Tech Design	TDJ 4O TDJ 4M
	Aboriginal Studies	NBV 3C	Custom Woodwork	TWJ 4E	
	Construction Tech	TCJ 3C	Comm Tech	TGJ 4M TGJ 4O	
	Tech Design	TDJ 3M TDJ 3O	Hairstyling & Aesthetics	TXJ 4E	
	Custom Woodwork	TWJ 3E			
	Comm Tech	TGJ 3M TGJ 3O			
	Hairstyling & Aesthetics	TXJ3E			
Other Credits 1 credit (Gr. 11 or 12)		BAF 3M, BAT 4M, BMI 3C, BOH 4M, BTA 3O, CGG 3O, CGW 4U, CHI 4U, CHW 3M, CHY 4C, CHY 4U, CLN 4U, CLU 3E, CLU 3M, EWC 4C, EWC 4U, FIF 4U, GLE 4O, GLS 4O, ICS 3C, ICS 3U, ICS 4C, ICS 4U, IDC 4U, MEL 3E, MEL 4E, NBE 3C, NBE 3E, NBE 3U, NBV 3C, NBV 3E, NBV 3U, NDW 4M, OLC 4O			
Co-op Credits 2 credits (Gr. 11 or 12)		Co-op (2 credits) - related to major credits			

Health and Wellness Requirements

	Grade 11		Grade 12	
One English Credit	ENG3E, ENG3C, ENG3U, NBE3E, NBE3C, NBE3U		ENG4E, ENG4C, ENG4U, OLC4O	
One Math Credit	MCR3U, MCF3M, MBF3C, MEL3E		MCV4U, MHF4U, MDM4U, MAP4C, MEL4E	
Major Credits 2 credits Grade 11 and 2 credits Grade 12	Dance	ATC3O ATC3M	Dance	ATC4M
	Leadership	GPP3O	Personal Life Management	HIP4O
	Working with Infants & Small Children	HPW3C	Equity and Social Justice	HSE4M
	Intro to Anthropology, Sociology, Psychology	HSP3U HSP3UF HSP3C	Native Studies	NDW4M
	Native Studies	NBV3C	Outdoor Education	PAD4O
	Healthy Active Living Fitness	PPL3O PPL3OF PAF3O	Healthy Living Fitness	PPL4O PPL4OF PAF4O
	Biology	SBI3U	Link Crew	IDC4U
	Chemistry	SCH3U	Working with School-aged Children	HPD4C
	Physics	SPH3U	Recreation Leadership	PLF4M
	Environmental Science	SVN3E	Introduction to Kinesiology	PSK4U
	Health Care	TPJ3C TPJ3M	Biology	SBI4U
	Hairstyling & Aesthetics	TXJ3E	Chemistry	SCH4U SCH4C
			Physics	SPH4U SPH4C
			Health Care	TPJ4M
			Hairstyling & Aesthetics	TXJ4E
Other Credits 1 Credit Grade 11 or 12	HPW3C, JSP3C, HSP3U, NBV3C, NBE3C, NBE3U, SBI3C, SBI3U, SCH3U, SPH3U, SVN3E, ICS3C, ICS3U, HIP4O, HSE4M, ICS4U, NDW4M, PSK4U, SBI4U, SCH4C, SCH4U, SPH4C, SPH4U			
Co-op Credits 2 credits Grade 11 or 12	Co-op Credits Related to Major Credits			

UCDSB Day-School eLearning – Proposed Courses

Grade 11, Visual Arts, University/College

AVI3M

Prerequisite – AVI10 or AVI20

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, information design).

Grade 12, Film Studies, University/College

AWR4M

Prerequisite – AWR3M

Love movies? This course is an introduction to the art, history, and analysis of film. Students will learn about the technical, aesthetic, and cultural elements of modern films, and will develop the skills necessary to analyze and interpret films. The course will cover a range of film movements, styles, and genres, and will consider the ways in which films reflect and shape the societies in which they are produced.

Grade 11, Financial Accounting Fundamentals, University/College

BAF3M

Prerequisite – none

This course introduces students to the fundamental principles and procedures of accounting. Students will develop financial analysis and decision-making skills that will assist them in future studies and/or career opportunities in business. Students will acquire an understanding of accounting for a service and a merchandising business, computerized accounting, financial analysis, and ethics and current issues in accounting.

Grade 12, International Business Fundamentals, University/College

BBB4M

Prerequisite – none

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.

Grade 11, Entrepreneurship: The Venture, College

BDI3C

Prerequisite – none

This course focuses on ways in which entrepreneurs recognize opportunities, generate ideas, and organize resources to plan successful ventures that enable them to achieve their goals. Students will create a venture plan for a school-based or student-run business. Through hands-on experiences, students will have opportunities to develop the values, traits, and skills most often associated with successful entrepreneurs.

Grade 12, Business Leadership: Management Fundamentals, University/College

BOH4M

Prerequisite – AVI10 or AVI20

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.

Grade 11, Forces of Nature: Physical Processes and Disasters, University/College

CGF3M

Prerequisite – CGC1D or CGC1P

Grade 11, Forces of Nature: Physical Processes and Disasters – French Immersion, University/College

CGF3MF

Prerequisite – CGC1DF or CGC1PF

In this course, students will explore physical processes related to the earth's water, land, and air. They will investigate how these processes shape the planet's natural characteristics and affect human systems, how they are involved in the creation of natural disasters, and how they influence the impacts of human disasters. Throughout the course, students will apply the concepts of geographic thinking and the geographic inquiry process and use spatial technologies to analyze these processes, make predictions related to natural disasters, and assess ways of responding to them.

Grade 11, Travel and Tourism: A Geographic Perspective, Open**Prerequisite – CGC1D or CGC1P**

This course focuses on issues related to travel and tourism within and between various regions of the world. Students will investigate unique environmental, sociocultural, economic, and political characteristics of selected world regions. They will explore travel patterns and trends, as well as tensions related to tourism, and will predict future tourism destinations. Students will apply the concepts of geographic thinking and the geographic inquiry process, including spatial technologies, to investigate the impact of the travel industry on natural environments and human communities.

Grade 12, The Environment and Resource Management, University/College**CGR4M****Prerequisite – any University, University/College, or College course in Cdn & World Studies, English, or Social Sciences/Humanities**

This course investigates interactions between natural and human systems, with a particular emphasis on the impacts of human activity on ecosystems and natural processes. Students will use the geographic inquiry process, apply the concepts of geographic thinking, and employ a variety of spatial skills and technologies to analyze these impacts and propose ways of reducing them. During their investigations, they will assess resource management and sustainability practices, as well as related government policies and international accords. They will also consider questions of individual responsibility and environmental stewardship as they explore ways of developing a more sustainable relationship with the environment.

Grade 12, World Issues: A Geographic Analysis, University**CGW4U****Prerequisite – any University or University/College course in Cdn & World Studies, English, or Social Sciences/Humanities**

In this course, students will address the challenge of creating a more sustainable and equitable world. They will explore issues involving a wide range of topics, including economic disparities, threats to the environment, globalization, human rights, and quality of life, and will analyze government policies, international agreements, and individual responsibilities relating to them. Students will apply the concepts of geographic thinking and the geographic inquiry process, including the use of spatial technologies, to investigate these complex issues and their impacts on natural and human communities around the world.

Grade 12, Canada: History, Identity, and Culture, University**CHI4U****Prerequisite – any University or University/College course in Cdn & World Studies, English, or Social Sciences/Humanities**

This course traces the history of Canada, with a focus on the evolution of our national identity and culture as well as the identity and culture of various groups that make up Canada. Students will explore various developments and events, both national and international, from precontact to the present, and will examine various communities in Canada and how they have contributed to identity and heritage in Canada. Students will investigate the development of culture and identity, including national identity, in Canada and how and why they have changed throughout the country's history. They will extend their ability to apply the concepts of historical thinking and the historical inquiry process, including the interpretation and analysis of evidence, as they investigate the people, events, and forces that have shaped Canada.

Grade 10, Civics and Citizenship, Open**CHV2O****Prerequisite – none****Grade 10, Civics and Citizenship – French Immersion, Open****CHV2OF****Prerequisite – Immersion students only**

This course explores rights and responsibilities associated with being an active citizen in a democratic society. Students will explore issues of civic importance 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. This course also includes learning on digital literacy and critical-thinking skills, the mechanisms of government, Indigenous governance systems and structures, the historical foundations of the rights and freedoms we enjoy in Canada, ways in which government policy affects individuals' lives and the economy, and ways for students to serve their communities.

Grade 10, Career Studies, Open**GLC2O****Prerequisite – none****Grade 10, Career Studies – French Immersion, Open****GLC2OF****Prerequisite – Immersion students only**

This course gives students the opportunity to develop the skills, knowledge, and habits that will support them in their education and career/life planning. Students will learn about global work trends and seek opportunities within the school and community to expand and strengthen their transferable skills and their ability to adapt to the changing world of work. Based on exploration, reflective practice, and decision-making processes, students will make connections between their skills, interests, and values and their postsecondary options, whether in apprenticeship training, college, community living, university, or the workplace. They will set goals and create a plan for their first postsecondary year. As part of their preparation for the future, they will learn about

personal financial management – including the variety of saving and borrowing tools available to them and how to use them to their advantage – and develop a budget for their first year after secondary school.

Grade 11, World History to the End of the Fifteenth Century, University/College

CHW3M

Prerequisite – CHC2D or CHC2P

This course explores the history of various societies and civilizations around the world, from earliest times to around 1500 CE. Students will investigate a range of factors that contributed to the rise, success, and decline of various ancient and pre-modern societies throughout the world and will examine life in and the cultural and political legacy of these societies. Students will extend their ability to apply the concepts of historical thinking and the historical inquiry process, including the interpretation and analysis of evidence, when investigating social, political, and economic structures and historical forces at work in various societies and in different historical eras.

Grade 12, World History since the Fifteenth Century, University

CHY4U

Prerequisite – any University or University/College course in Cdn & World Studies, English, or Social Sciences/Humanities

This course traces major developments and events in world history since approximately 1450. Students will explore social, economic, and political changes, the historical roots of contemporary issues, and the role of conflict and cooperation in global interrelationships. They will extend their ability to apply the concepts of historical thinking and the historical inquiry process, including the interpretation and analysis of evidence, as they investigate key issues and ideas and assess societal progress or decline in world history.

Grade 12, Analyzing Economic Issues, University

CIA4U

Prerequisite – any University or University/College course in Cdn & World Studies, English, or Social Sciences/Humanities

This course examines current Canadian and international economic issues, developments, policies, and practices from diverse perspectives. Students will explore the decisions that individuals and institutions, including governments, make in response to economic issues such as globalization, trade agreements, economic inequalities, regulation, and public spending. Students will apply the concepts of economic thinking and the economic inquiry process, as well as economic models and theories, to investigate, and develop informed opinions about, economic trade-offs, growth, and sustainability and related economic issues.

Grade 12, Canadian and International Law, University

CLN4U

Prerequisite – any University or University/College course in Cdn & World Studies, English, or Social Sciences/Humanities

This course explores a range of contemporary legal issues and how they are addressed in both Canadian and international law. Students will develop an understanding of the principles of Canadian and international law and of issues related to human rights and freedoms, conflict resolution, and criminal, environmental, and workplace law, both in Canada and internationally. Students will apply the concepts of legal thinking and the legal studies inquiry process, and will develop legal reasoning skills, when investigating these and other issues in both Canadian and international contexts.

Grade 11, Understanding Canadian Law, University/College

CLU3M

Prerequisite – CHC2D or CHC2P

This course explores Canadian law, with a focus on legal issues that are relevant to the lives of people in Canada. Students will gain an understanding of laws relating to rights and freedoms in Canada; our legal system; and family, contract, employment, tort, and criminal law. Students will develop legal reasoning skills and will apply the concepts of legal thinking and the legal studies inquiry process when investigating a range of legal issues and formulating and communicating informed opinions about them.

Grade 11, Media Studies, University

EMS3O

Prerequisite – ENG2D or ENG2P

This course emphasizes knowledge and skills that will enable students to understand media communication in the twenty-first century and to use media effectively and responsibly. Through analysing the forms and messages of a variety of media works and audience responses to them, and through creating their own media works, students will develop critical thinking skills, aesthetic and ethical judgement, and skills in viewing, representing, listening, speaking, reading, and writing.

Grade 12, Analyzing Economic Issues, University

CIA4U

Prerequisite – any University or University/College course in Cdn & World Studies, English, or Social Sciences/Humanities

This course examines current Canadian and international economic issues, developments, policies, and practices from diverse perspectives. Students will explore the decisions that individuals and institutions, including governments, make in response to economic issues such as globalization, trade agreements, economic inequalities, regulation, and public spending. Students will apply

the concepts of economic thinking and the economic inquiry process, as well as economic models and theories, to investigate, and develop informed opinions about, economic trade-offs, growth, and sustainability and related economic issues.

Grade 12, English, College

ENG4C

Prerequisite – NBE3C or ENG3C

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

Grade 12, English, University

ENG4U

Prerequisite – NBE3U or ENG3U

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 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.

Grade 12, The Writer's Craft, University

EWC4U

Prerequisite – NBE3U or ENG3U

This course emphasizes knowledge and skills related to the craft of writing. Students will analyze models of effective writing; use a workshop approach to produce a range of works; identify and use techniques required for specialized forms of writing; and identify effective ways to improve the quality of their writing. They will also complete a major paper as part of a creative or analytical independent study project and investigate opportunities for publication and for writing careers.

Grade 12, Advanced Learning Strategies: Skills for Success After Secondary School, Open

GLS4O

Prerequisite – none

This course improves students' learning and personal-management skills, preparing them to make successful transitions to work, training, and/or postsecondary education destinations. Students will assess their learning abilities and use literacy, numeracy, and research skills and personal-management techniques to maximize their learning. Students will investigate trends and resources to support their postsecondary employment, training, and/or education choices and develop a plan to help them meet their learning and career goals.

Grade 12, Designing Your Future, Open

GWL3O

Prerequisite – none

This course prepares students to make successful transitions to postsecondary destinations as they investigate specific postsecondary options based on their skills, interests, and personal characteristics. Students will explore the realities and opportunities of the workplace and examine factors that affect success, while refining their job-search and employability skills. Students will develop their portfolios with a focus on their targeted destination and develop an action plan for future success.

Grade 12, Health and Nutrition, University

HFA4U

Prerequisite – any University or University/College course in Cdn & World Studies, English, or Social Sciences/Humanities

This social science course focuses on food literacy and the relationship between health and nutrition at different stages of life (healthy eating, safe food prep practices) as well as global issues and food production (food security, environmental responsibility, sustainability...) while using social science research and inquiry methods. Food literacy means knowing where food comes from, what impacts our food choices have on the environment, knowing what grows locally and what is imported, what foods are in season, and what food is healthy.

Grade 12, Families in Canada, University

HHS4U

Prerequisite – any University or University/College course in Cdn & World Studies, English, or Social Sciences/Humanities

This course enables students to draw on sociological, psychological, and anthropological theories and research to analyze the development of individuals, intimate relationships, and family and parent-child relationships. Students will focus on issues and challenges facing individuals and families in Canada's diverse society. They will develop analytical tools that enable them to assess various factors affecting families and to consider policies and practices intended to support families in Canada. They will develop the investigative skills required to conduct and communicate the results of research on individuals, intimate relationships, and parent-child relationships.

Grade 11, Housing and Home Design, Open**HLS30****Prerequisite – none**

This course introduces students to a range of issues related to housing and home design. Students will learn about the needs that housing fulfils; housing options; home maintenance and safety; and environmental, economic, legal, and social considerations related to housing. They will use the elements and principles of design to analyze design and decorating decisions. Students will develop research skills as they investigate issues related to housing and home design.

Grade 11, Understanding Fashion, College**HNC3C****Prerequisite – none**

This course introduces students to the world of fashion. Students will gain an understanding of theories related to fashion trends and of how culture, media, fashion cycles, retailing, and social and environmental factors influence fashion trends and consumer behaviour. Students will use various tools, technologies, and techniques safely and correctly to create fashion items. In addition, students will apply knowledge of fibers, fabrics, and the elements and principles of design when creating and assessing fashion-related products. Students will develop research skills as they investigate topics related to fashion.

Grade 11, Raising Healthy Children, Open**HPC30****Prerequisite – none**

This course focuses on the skills and knowledge parents, guardians, and caregivers need, with particular emphasis on maternal health, pregnancy, birth, and the early years of human development (birth to six years old). Through study and practical experience, students will learn how to meet the developmental needs of young children, communicate with them, and effectively guide their early behaviour. Students will develop their research skills through investigations related to caregiving and child rearing.

Grade 12, Challenge and Change in Society, University**HSB4U****Prerequisite – any University or University/College course in Cdn & World Studies, English, or Social Sciences/Humanities****Grade 12, Challenge and Change in Society – French Immersion, University****HSB4UF****Prerequisite – any University or University/College course in Cdn & World Studies, English, or Social Sciences/Humanities**

This course focuses on the use of social science theories, perspectives, and methodologies to investigate and explain shifts in knowledge, attitudes, beliefs, and behaviour and their impact on society. Students will critically analyze how and why cultural, social, and behavioural patterns change over time. They will explore the ideas of social theorists and use those ideas to analyze causes of and responses to challenges such as technological change, deviance, and global inequalities. Students will explore ways in which social science research methods can be used to study social change.

Grade 12, World Cultures, University/College**HSC4M****Prerequisite – any University or University/College course in Cdn & World Studies, English, or Social Sciences/Humanities**

This course examines the nature of culture; how cultural identities are acquired, maintained, and transformed; and theories used to analyze cultures. Students will explore world cultures, with an emphasis on the analysis of religious and spiritual beliefs, art forms, and philosophy. They will study the contributions and influence of a range of cultural groups and will critically analyze issues facing ethnocultural groups within Canada and around the world. Students will develop and apply research skills and will design and implement a social action initiative relating to cultural diversity.

Grade 12, Equity and Social Justice: From Theory to Practice, University/College**HSE4M****Prerequisite – any University, College, or University/College course in Cdn & World Studies, English, or Social Sciences/Humanities**

This course enables students to develop an understanding of the theoretical, social, and historical underpinnings of various equity and social justice issues and to analyze strategies for bringing about positive social change. Students will learn about historical and contemporary equity and social justice issues in Canada and globally. They will explore power relations and the impact of a variety of factors on equity and social justice. Students will develop and apply research skills and will design and implement a social action initiative relating to an equity or social justice issue.

Grade 11, Gender Studies, University/College**HSG3M****Prerequisite – none**

This course enables students to explore the social construction of gender. Students will learn about the dynamic nature of gender roles and norms; sexism and power relations; and the impact of representations of women and men in the media, popular culture, and the arts. Students will analyze a range of gender equity issues, including gender-based violence and workplace equity, in both Canadian and global contexts. Students will develop and apply research skills and will design and implement a social action initiative relating to gender equity.

Grade 11, Introduction to Anthropology, Psychology, and Sociology, College**HSP3C****Prerequisite – none**

This course introduces students to theories, questions, and issues related to anthropology, psychology, and sociology. Students learn about approaches and research methods used by social scientists. Students will be given opportunities to apply theories from a variety of perspectives, to conduct social science research, and to become familiar with current issues within the three disciplines.

Grade 11, Introduction to Anthropology, Psychology, and Sociology, University**HSP3U****Prerequisite – ENG2D or CHC2D****Grade 11, Introduction to Anthropology, Psychology, and Sociology – French Immersion, University****Prerequisite – ENG2D or CHC2DF, Immersion only****HSP3UF**

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 research, and to become familiar with current thinking on a range of issues within the three disciplines.

Grade 12, Philosophy: Questions and Theories, University**HZT4U****Prerequisite – any University or University/College course in Cdn & World Studies, English, or Social Sciences/Humanities**

This course enables students to acquire an understanding of the nature of philosophy and philosophical reasoning skills and to develop and apply their knowledge and skills while exploring specialized branches of philosophy (the course will cover at least three of the following branches: metaphysics, ethics, epistemology, philosophy of science, social and political philosophy, aesthetics). Students will develop critical thinking and philosophical reasoning skills as they formulate and evaluate arguments related to a variety of philosophical questions and theories. They will also develop research and inquiry skills related to the study and practice of philosophy.

Grade 11, Introduction to Computer Programming, College**ICS3C****Prerequisite – none**

This course introduces students to computer programming concepts and practices. Students will write and test computer programs, using various problem-solving strategies. They will learn the fundamentals of program design and apply a software development life-cycle model to a software development project. Students will also learn about computer environments and systems, and explore environmental issues related to computers, safe computing practices, emerging technologies, and postsecondary opportunities in computer-related fields.

Grade 11, Introduction to Computer Science, University**ICS3U****Prerequisite – none**

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.

Grade 12, Computer Programming, College**ICS4C****Prerequisite – ICS3C**

This course further develops students' computer programming skills. Students will learn object-oriented programming concepts, create object-oriented software solutions, and design graphical user interfaces. Student teams will plan and carry out a software development project using industry-standard programming tools and proper project management techniques. Students will also investigate ethical issues in computing and expand their understanding of environmental issues, emerging technologies, and computer-related careers.

Grade 12, Computer Science, University**ICS4U****Prerequisite – ICS3U**

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 analyse 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.

Grade 12, Foundations for College Mathematics, College**MAP4C****Prerequisite – MBF3C or MCF3M**

This course enables students to broaden their understanding of real-world applications of mathematics. Students will analyse data using statistical methods; solve problems involving applications of geometry and trigonometry; solve financial problems connected with annuities, budgets, and renting or owning accommodation; simplify expressions; and solve equations. Students will reason mathematically and communicate their thinking as they solve multi-step problems. This course prepares students for college programs in areas such as business, health sciences, and human services, and for certain skilled trades.

Grade 11, Foundations for College Mathematics, College**MBF3C****Prerequisite – MFM2P**

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.

Grade 11, Functions, University**MCR3U****Prerequisite – MPM2D**

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.

Grade 12, Calculus and Vectors, University**MCV4U****Co-requisite – MHF4U**

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, sinusoidal, exponential, rational, and radical 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.

Grade 12, Mathematics of Data Management, University**MDM4U****Prerequisite – MCR3U or MCF3M**

This course broadens students' understanding of mathematics as it relates to managing data. Students will apply methods for organizing and analyzing large amounts of information; solve problems involving probability and statistics; and carry out a culminating investigation 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.

Grade 12, MHF4U, University**MHF4U****Prerequisite – MCR3U or MCT4C**

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.

Grade 11, English: Understanding Contemporary First Nations, Métis, and Inuit Voices, University NBE3U**Prerequisite – ENG2D**

This course explores themes, forms, and stylistic elements of a variety of literary, informational, graphic, oral, cultural, and media text forms emerging from First Nations, Métis, and Inuit cultures in Canada, and also examines the perspectives and influence of texts that relate to those cultures. In order to fully understand contemporary text forms and their themes of identity, relationship,

and self-determination, sovereignty, or self-governance, students will analyse the changing use of text forms by Indigenous authors/creators from various periods and cultures in expressing ideas related to these themes. Students will also create oral, written, and media texts to explore their own ideas and understanding, focusing on the development of literacy, communication, and critical and creative thinking skills necessary for success in academic and daily life. The course is intended to prepare students for the compulsory Grade 12 English university or college preparation course.

Grade 12, Ontario Secondary School Literacy Course, Open

OLC40

Prerequisite – 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. (Students who have already met the literacy requirement for graduation may be eligible to take the course under special circumstances, at the discretion of the principal.)

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.

Grade 11, Health and Physical Education, College

PPZ3C

Prerequisite – none

This course enables students to examine the factors that influence their own health practices and behaviours as well as those factors that contribute to the development of healthy communities. It emphasizes the concept of wellness, which addresses all aspects of well-being – physical, cognitive, emotional, spiritual, and social – and promotes healthy eating, physical activity, and building and maintaining a positive sense of self. Students will develop the skills necessary to make healthy choices and create a personal wellness plan. They will also design initiatives that encourage others to lead healthy, active lives. The course prepares students for college programs in health sciences, fitness, wellness, and health promotion.

Grade 12, Introductory Kinesiology, University

PSK4U

Prerequisite – any University or University/College course in science or any gr. 11/12 course in Health and Physical Education

This course focuses on the study of human movement and of systems, factors, and principles involved in human development. Students will learn about the effects of physical activity on health and performance, the evolution of physical activity and sport, and the physiological, psychological, and social factors that influence an individual's participation in physical activity and sport. The course prepares students for university programs in physical education and health, kinesiology, health sciences, health studies, recreation, and sports administration.

Grade 11, Biology, College

SBI3C

Prerequisite – SNC2D or SNC2P

This course focuses on the processes that occur in biological systems. Students will learn concepts and theories as they conduct investigations in the areas of cellular biology, microbiology, genetics, the anatomy of mammals, and the structure of plants and their role in the natural environment. Emphasis will be placed on the practical application of concepts, and on the skills needed for further study in various branches of the life sciences and related fields.

Grade 11, Biology, University

SBI3U

Prerequisite – SNC2D

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.

Grade 11, Chemistry, University

SCH3U

Prerequisite – SNC2D

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.

Grade 12, Chemistry, College

SCH4C

Prerequisite – SNC2D or SNC2P

This course enables students to develop an understanding of chemistry through the study of matter and qualitative analysis, organic chemistry, electrochemistry, chemical calculations, and chemistry as it relates to the quality of the environment. Students will use 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 the effects of technological applications and processes on society and the environment.

Grade 12, Earth and Space Science, University

SES4U

Prerequisite – SNC2D

This course develops students' understanding of Earth and its place in the universe. Students will investigate the properties of and forces in the universe and solar system and analyze techniques scientists use to generate knowledge about them. Students will closely examine the materials of Earth, its internal and surficial processes, and its geological history, and will learn how Earth's systems interact and how they have changed over time. Throughout the course, students will learn how these forces, processes, and materials affect their daily lives. The course draws on biology, chemistry, physics, and mathematics in its consideration of geological and astronomical processes that can be observed directly or inferred from other evidence.

Grade 12, Science, University/College

SNC4M

Prerequisite – SNC2D or any gr.11 University, University/College, or College course is science

This course enables students, including those pursuing postsecondary programs outside the sciences, to increase their understanding of science and contemporary social and environmental issues in health-related fields. Students will explore a variety of medical technologies, pathogens and disease, nutritional science, public health issues, and biotechnology. The course focuses on the theoretical aspects of the topics under study and helps refine students' scientific investigation skills.

Grade 11, Physics, University

SPH3U

Prerequisite – SNC2D

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.

Grade 12, Physics, College

SPH4C

Prerequisite – SNC2D or SNC2P

This course develops students' understanding of the basic concepts of physics. Students will explore these concepts with respect to motion; mechanical, electrical, electromagnetic, energy transformation, hydraulic, and pneumatic systems; and the operation of commonly used tools and machines. They will develop their scientific investigation skills as they test 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.

Grade 12, Physics, University

SPH4U

Prerequisite – SPH3U

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 analyze, 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.

Grade 11, Communications Technology: Photography and Digital Imaging, University/College

TGP3M

Prerequisite – none

Addicted to your smartphone? Use it to your advantage and learn how to increase your followers and likes by sharing *lit* photos you took! In this course, you'll learn the history of photography, tips for taking amazing photos with your smartphone, photo editing techniques for enhancing those photos and how to build a portfolio worthy of a college application. (Smartphones will *not* be provided)

Grade 11, Green Industries, University/College**THJ3M****Prerequisite – none**

This course enables students to develop knowledge and skills related to agriculture, forestry, horticulture, and landscaping. Students will study the identification, growth, and management of plants and animals and develop process, design, and management skills required in the green industries. Students will also examine social and economic issues related to the green industries, learn about safe and healthy working practices, study industry standards and codes, and will explore postsecondary education programs and career opportunities.

Grade 11, Health Care, University/College**TPJ3M****Prerequisite – none**

This course enables students to develop their understanding of basic health care procedures, including the safe use of appropriate instruments, equipment, and materials. Students will focus on health care fundamentals, including the anatomical features and physiology of the major body systems and the factors that affect homeostasis in the human body. Students will develop an awareness of health and safety issues in the health care field, analyze environmental and societal issues related to health care, and learn about professional practice standards and career opportunities in the field.

Grade 12, Child Development and Gerontology, College**TOJ4C****Prerequisite – none**

This course enables students to examine the stages of child development and the aging process. Students will study the processes of disease and factors contributing to health and well-being in early and later life and will develop skills required to meet the needs of children and older adults (care skills). Students will also learn about legislation governing the care of children and older adults; evaluate social and recreational activities, programs, and services for improving quality of life; and develop an awareness of health and safety issues, environmental and social issues, and career opportunities related to childcare and gerontology.