

**Course Offerings & Descriptions**

\*Course Descriptions are linked in each of the grade titles.

| Grade 9   | Grade 10  | Grade 11  | Grade 12  |
|---|---|---|---|
| <p><b>Compulsory:</b></p> <p><b>Canadian Geography</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> CGC1D (Academic)</li> </ul> <p><b>English</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> ENG1D (ESL Courses below)</li> <li><input type="checkbox"/> ENG1L (Locally Developed) (ESL Courses below)</li> </ul> <p><b>French</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> FSF1D (Academic)</li> <li><input type="checkbox"/> FSF1O (Open)</li> </ul> <p><b>Mathematics</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> MTH1W (De-streamed)</li> <li><input type="checkbox"/> MAT1L (Locally Developed)</li> </ul> <p><b>Science</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> SNC1W (De-streamed)</li> <li><input type="checkbox"/> SNC1L (Locally Developed)</li> </ul> <p><b>Health and Physical Education</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> PPZ3C (Health for Life)</li> </ul> <p><b>Electives (Choose 2):</b></p> <p><b>Arts</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> ASM2O (Media Arts)</li> <li><input type="checkbox"/> ADA1O (Dramatic Arts)</li> </ul> <p><b>Business</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> BTT1O (Intro Business)</li> </ul> <p><b>Social Sciences &amp; Humanities</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> HIF1O (Exploring Family Studies)</li> </ul> <p><b>Special Education</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> GLE1O (Learning Strategies)</li> </ul> <p><a href="#">English as a Second Language</a></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> ESLAO</li> </ul> | <p><b>Compulsory:</b></p> <p><b>Canadian History</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> CHC2D(Academic)</li> <li><input type="checkbox"/> CHC2L (Locally Developed)</li> </ul> <p><b>Civics &amp; Careers</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> CHV2O/GLC2O</li> </ul> <p><b>English</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> ENG2D (Academic)</li> <li><input type="checkbox"/> ENG2P (Applied)</li> <li><input type="checkbox"/> ENG2L (Locally Developed) (ESL Courses below)</li> </ul> <p><b>Mathematics</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> MPM2D(Academic)</li> <li><input type="checkbox"/> MAT2L (Locally Developed)</li> </ul> <p><b>Science</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> SNC2D (Academic)</li> <li><input type="checkbox"/> SNC2P (Applied)</li> <li><input type="checkbox"/> SNC2L (Locally Developed)</li> </ul> <p><b>Electives (Choose 3):</b></p> <p><b>Arts</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> ASM2O (Media Arts)</li> <li><input type="checkbox"/> ADA2O Dramatic Arts)</li> </ul> <p><b>Business</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> BBI2O (Intro to Business)</li> </ul> <p><b>Computer Science</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> ICS2O (Intro to Computer Science)</li> </ul> <p><b>Social Sciences &amp; Humanities</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> HIF2O (Exploring Family Studies)</li> </ul> <p><b>Health and Physical Education</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> PPZ3C (Health for Life)</li> </ul> <p><b>Special Education</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> GLE2O (Learning Strategies)</li> </ul> | <p><b>Compulsory:</b></p> <p><b>English- Understanding Contemporary FNMI Voices</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> NBE3C (College)</li> <li><input type="checkbox"/> NBE3E (Work Place)</li> <li><input type="checkbox"/> NBE3U (University) (ESL Courses below)</li> </ul> <p><b>Mathematics</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> MBF3C (College)</li> <li><input type="checkbox"/> MEL3E (Workplace)</li> <li><input type="checkbox"/> MCF3M (Mixed)</li> <li><input type="checkbox"/> MCR3U (University)</li> </ul> <p><b>Electives (Choose 6):</b></p> <p><b>Arts</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> ASM3M (Media Arts)</li> <li><input type="checkbox"/> ADA3M (Dramatic Arts)</li> </ul> <p><b>Business</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> BAF3M (Financial Accounting Fundamentals)</li> <li><input type="checkbox"/> BMI3C (Marketing)</li> </ul> <p><b>Canadian &amp; World Studies</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> CLU3M (Understanding Canadian Law)</li> <li><input type="checkbox"/> CGG30 (Travel and Tourism)</li> <li><input type="checkbox"/> CHW3M(World History)</li> </ul> <p><b>Computer Science</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> ICS3U (University)</li> <li><input type="checkbox"/> ICS3C (College)</li> </ul> <p><b>Science</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> SBI3C (College Biology)</li> <li><input type="checkbox"/> SBI3U (University Biology)</li> <li><input type="checkbox"/> SCH3U (University Chemistry)</li> <li><input type="checkbox"/> SPH3U (University Physics)</li> <li><input type="checkbox"/> SVN3E (Workplace Environmental Science)</li> </ul> | <p><b>Compulsory:</b></p> <p><b>English</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> ENG4C (College)</li> <li><input type="checkbox"/> ENG4E (Work Place)</li> <li><input type="checkbox"/> ENG4U (University)</li> <li><input type="checkbox"/> OLC4O (Literacy) (ESL Courses below)</li> </ul> <p><b>Electives (Choose 7):</b></p> <p><b>Arts</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> ASM4M (Media Arts)</li> <li><input type="checkbox"/> ADA4E (Workplace Dramatic Arts)</li> <li><input type="checkbox"/> ADA4M (Dramatic Arts)</li> </ul> <p><b>Business</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> BOH4M (Business Management)</li> <li><input type="checkbox"/> BAT4M (Financial Accounting Principles)</li> </ul> <p><b>Canadian &amp; World Studies</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> CLN4U (University Canadian &amp; International Law)</li> <li><input type="checkbox"/> CLN4C (College Canadian &amp; International Law)</li> <li><input type="checkbox"/> CGW4U(World Issues)</li> <li><input type="checkbox"/> CHY4U(World History)</li> </ul> <p><b>Computer Science</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> ICS4U (University)</li> <li><input type="checkbox"/> ICS4C (College)</li> </ul> <p><b>Mathematics</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> MAP4C (Foundations for College)</li> <li><input type="checkbox"/> MHF4U (Advanced Functions)</li> <li><input type="checkbox"/> MCV4U (Calculus &amp; Vectors)</li> <li><input type="checkbox"/> MDM4U (Data Management)</li> <li><input type="checkbox"/> MEL4E (Workplace)</li> <li><input type="checkbox"/> MCT4C (Mathematics for College Technology)</li> </ul> <p><b>Science</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> SBI4U (University)</li> </ul> |

- ESLBO
- ESLCO
- ESLDO
- ESLEO

**English as a Second Language**

- ESLAO
- ESLBO
- ESLCO
- ESLDO
- ESLEO

**Social Sciences & Humanities**

- HSP3U (University Intro to Anthropology, Psychology, Sociology)
- HSP3C (College Intro to Anthropology, Psychology, Sociology)

**Health and Physical Education**

- PPZ3C (Health for Life)

**Special Education**

- GLE3O (Learning Strategies)

**English as a Second Language**

- ESLAO
- ESLBO
- ESLCO
- ESLDO
- ESLEO

Biology)

- SCH4C (College Chemistry)
- SCH4U (University Chemistry)
- SPH4C (College Physics)
- SPH4U (University Physics)

**Social Sciences & Humanities**

- HHG4M (Human Development)
- HHS4C (College Families & Society)
- HHS4U (University Families & Society)
- HSB4U (Challenge & Change in Society)

**Health and Physical Education**

- PSK4U (Kinesiology)

**Special Education**

- GLE4O (Learning Strategies)

**English as a Second Language**

- ESLAO
- ESLBO
- ESLCO
- ESLDO
- ESLEO

## Grade 9

### Compulsory Courses:

#### **Issues in Canadian Geography-CGC1D (Academic)**

This course examines interrelationships within and between Canada's natural and human systems and how these systems interconnect with those in other parts of the world. Students will explore environmental, economic, and social geographic issues relating to topics such as transportation options, energy choices, and urban development. Students will apply the concepts of geographic thinking and the geographic inquiry process, including spatial technologies, to investigate various geographic issues and to develop possible approaches for making Canada a more sustainable place in which to live.

#### **English- ENG1D (Academic)**

This course is designed to develop the oral communication, reading, writing, and media literacy skills that students need for success in their secondary school academic programs and in their daily lives. Students will analyse literary texts from contemporary and historical periods, interpret informational and graphic texts, and create oral, written, and media texts in a variety of forms. An important focus will be on the use of strategies that contribute to effective communication. The course is intended to prepare students for the Grade 10 academic English course, which leads to university or college preparation courses in Grades 11 and 12.

#### **English- ENG1L (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 and 12 Workplace courses. 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.

#### **Guidance Message**

This course is intended to prepare students for the Grade 10 locally developed English course, which leads to workplace preparation courses in Grades 11 and 12.

Please Note: Applied and/or Academic courses are required for college or university pathways.

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

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

#### **Core French- FSF1O (Open- Beginner)**

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.

#### **Mathematics- MTH1W (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.

#### **Mathematics- MAT1L (Locally Developed)**

This locally developed course is intended for students who were withdrawn from math learning in elementary school and/or who have not yet demonstrated achievement of the majority of curriculum expectations in grade 7 and 8. Students who take this course will learn about money sense, measurement and proportional reasoning.

#### **Guidance Message**

This course is intended to prepare students for the Grade 10 locally developed math course, which leads to workplace preparation courses in Grades 11 and 12.

Please Note: Applied and/or Academic courses are required for college or university pathways.

#### **Science- SNC1W (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.

### **Science- SNC1L (Locally Developed)**

This is an introductory course in science that will allow you to learn about the basic concepts involved in biology, chemistry, physics and scientific inquiry. Each of these topics explore a range of topics including life-sustaining processes in simple and complex organisms, properties of common materials, electrical circuits and science in daily life. The course is designed to help you develop your mathematical and scientific process skills and to continue developing your skills in reading, writing and oral language through practical and relevant science activities. You will be asked to design and conduct investigations related to the 4 topics of study allowing you to put your practical problem solving abilities to use and to apply your knowledge of science to everyday situations. This course will provide you with considerable knowledge in science and prepare you for the next level of study and success in everyday life.

#### **Guidance Message**

This course is intended to prepare students for the Grade 10 locally developed science course, which leads to workplace preparation courses in Grades 11 and 12.

Please Note: Applied and/or Academic courses are required for college or university pathways.

### **Health and Physical Education**

#### **Health for Life- PPZ3C (Open)**

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.

### **Electives (Choose 2):**

#### **Arts**

##### **Media Arts- ASM20**

This course enables students to create media art works by exploring new media, emerging technologies such as digital animation, and a variety of traditional art forms such as film, photography, video, and visual arts. Students will acquire communications skills that are transferable beyond the media arts classroom and develop an understanding of responsible practices related to the creative process. Students will develop the skills necessary to create and interpret media art works.

##### **Dramatic Arts- ADA10**

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.

#### **Business**

##### **Information and Communication Technology in Business- BTT10**

This course introduces students to information and communication technology in a business environment and builds a foundation of digital literacy skills necessary for success in a technologically driven society. Students will develop word processing, spreadsheet, database, desktop publishing, presentation software, and website design skills. Throughout the course, there is an emphasis on digital literacy, effective electronic research and communication skills, and current issues related to the impact of information and communication technology.

#### **Social Sciences & Humanities**

##### **Exploring Family Studies- HIF10**

This course explores, within the context of families, some of the fundamental challenges people face: how to meet basic needs, how to relate to others, how to manage resources, and how to become responsible members of society. Students will explore adolescent development and will have opportunities to develop interpersonal, decision-making, and practical skills related to daily life. They will learn about the diverse ways in which families function in Canada and will use research skills as they explore topics related to individual and family needs and resources.

#### **Special Education**

##### **Learning Strategies- GLE10**

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.

## Grade 10

### Compulsory:

#### **Canadian History Since World War 1-CHC2D (Academic)**

This course explores social, economic, and political developments and events and their impact on the lives of different 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.

#### **Canadian History Since World War 1-CHC2L (Locally Developed)**

This course focuses on the connections between the student and key people, events, and themes in Canadian history from World War I to the present. Students prepare for the Grades 11 and 12 Workplace Preparation history courses through the development and extension of historical literacy and inquiry skills. Students explore a variety of topics highlighting individuals and events that have contributed to the story of Canada. The major themes of Canadian identity, internal and external relationships, and changes since 1914, are explored through guided investigation. Students have the opportunity to extend analytical skills with a focus on identifying and interpreting events and perspectives and making connections. Students practise reading, writing, visual, and oral literacy skills, and mathematical literacy skills to identify and communicate ideas in a variety of forms.

#### **Civics & Careers-CHV2O/GLC2O**

The Civics 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.

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

#### **English- ENG2D (Academic)**

This course is designed to extend the range of oral communication, reading, writing, and media literacy skills that students need for success in their secondary school academic programs and in their daily lives. Students will analyse literary texts from contemporary and historical periods, interpret and evaluate informational and graphic texts, and create oral, written, and media texts in a variety of forms. An important focus will be on the selective use of strategies that contribute to effective communication. This course is intended to prepare students for the compulsory Grade 11 university or college preparation courses.

Prerequisites: ENG1D1 OR ENG1P1 OR ESLD01 OR ESLEO

#### **English- ENG2P (Applied)**

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.

Prerequisites- ENG1D OR ENG1P OR ESLD0 OR ESLEO

#### **English- ENG2L (Locally Developed)**

In this course, students focus on extending their literacy and communication skills to prepare for success in their daily lives, in the workplace, in the English, Grade 11, Workplace Preparation course, or in the English: Contemporary Aboriginal Voices, Grade 11, Workplace Preparation course. The course is organized by strands that extend listening and talking skills, reading and viewing skills, and writing skills. In all strands, the focus is on refining foundational literacy skills and on using language clearly and accurately in a variety of authentic contexts. Students build on their strategies and engage in the processes involved in talking, listening, reading, viewing, writing, and thinking. Students reflect regularly upon their growth in these areas.

#### **Guidance Message**

This course is intended to prepare students for workplace preparation courses in Grades 11 and 12.

Please Note: Applied and/or Academic courses are required for college or university pathways.

Prerequisites- ENG1L OR ENG1P1 OR ENG1D

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

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

Prerequisites- MPM1D OR MTH1W

**Mathematic- MAT2L (Locally Developed)**

This locally developed course is intended for students who were withdrawn from math learning in elementary school **and/or** who have not yet demonstrated achievement of the majority of curriculum expectations in grade 7, 8 and 9. Students who take this course will extend their learning about money sense, measurement and proportional reasoning.

**Guidance Message**

This course is intended to prepare students for workplace preparation courses in Grades 11 and 12.

Please Note: Applied and/or Academic courses are required for college or university pathways.

Prerequisites- MAT1L, MFM1P OR MTH1W

**Science- SNC2D (Academic)**

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

Prerequisites- SNC1D OR SNC1P

**Science- SNC2P (Applied)**

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.

Prerequisites- SNC1D, SNC1P OR SNC1W

**Science- SNC2L (Locally Developed)**

This course emphasizes reinforcing and strengthening science-related knowledge and skills, including scientific inquiry, critical thinking, and the environmental impact of science and technology, to prepare students for success in everyday life, in the workplace, and in the Grade 11 Science Workplace Preparation course. Students explore a range of topics, including science in media, interactions of common materials, interdependence of organisms in communities, and using electrical energy.

**Guidance Message**

This course is intended to prepare students for workplace preparation courses in Grades 11 and 12.

Please Note: Applied and/or Academic courses are required for college or university pathways.

Prerequisites- SNC1D OR SNC1P OR SNC1L

**Electives (Choose 3):****Arts****Media Arts- ASM2O**

This course enables students to create media art works by exploring new media, emerging technologies such as digital animation, and a variety of traditional art forms such as film, photography, video, and visual arts. Students will acquire communications skills that are transferable beyond the media arts classroom and develop an understanding of responsible practices related to the creative process. Students will develop the skills necessary to create and interpret media art works.

**Dramatic Arts- ADA2O**

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.

**Business****Introduction to Business- BBI2O**

This course introduces students to the world of business. Students will develop an understanding of the functions of business, including accounting, marketing, information and communication technology, human resources, and production, and of the importance of ethics and social responsibility. This course builds a foundation for further studies in business and helps students develop the business knowledge and skills they will need in their everyday lives.

## **Computer Science**

### **Introduction to Computer Science- ICS20**

This course introduces students to computer programming. Students will plan and write simple computer programs by applying fundamental programming concepts, and learn to create clear and maintainable internal documentation. They will also learn to manage a computer by studying hardware configurations, software selection, operating system functions, networking, and safe computing practices. Students will also investigate the social impact of computer technologies, and develop an understanding of environmental and ethical issues related to the use of computers.

## **Social Sciences & Humanities**

### **Exploring Family Studies- HIF20**

This course explores, within the context of families, some of the fundamental challenges people face: how to meet basic needs, how to relate to others, how to manage resources, and how to become responsible members of society. Students will explore adolescent development and will have opportunities to develop interpersonal, decision-making, and practical skills related to daily life. They will learn about the diverse ways in which families function in Canada and will use research skills as they explore topics related to individual and family needs and resources.

## **Health and Physical Education**

### **Health for Life- PPZ3C (Open)**

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.

## **Special Education**

### **Learning Strategies- GLE20**

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.



## Grade 11

### Compulsory:

#### English

##### **English- Understanding Contemporary FNMI Voices- NBE3C (College)**

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.

Prerequisites- ENG2D OR ENG2P

##### **English- Understanding Contemporary First Nations, Metis and Inuit Voices- NBE3E (Workplace)**

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.

##### **Guidance Message**

Please Note: College, Mixed and/or University courses are required for college or university pathways.

Prerequisites- ENG2D OR ENG2P OR ENG2L

##### **English- Understanding Contemporary First Nations, Metis and Inuit Voices- NBE3U (University)**

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.

Prerequisites- ENG2D

#### Mathematics

##### **Foundations for College Mathematics- MBF3C (College)**

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.

Prerequisites- MFM2P OR MPM2D

##### **Mathematics for Work and Everyday Life- MEL3E (Workplace)**

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.

##### **Guidance Message**

Please Note: College, Mixed and/or University courses are required for college or university pathways.

Prerequisites- MPM1D OR MTH1W OR MFM1P OR MAT2L

##### **Functions and Applications- MCF3M (Mixed)**

This course introduces basic features of the function by extending students' experiences with quadratic relations. It focuses on quadratic, trigonometric, and exponential functions and their use in modelling real-world situations. Students will represent functions numerically, graphically, and algebraically; simplify expressions; solve equations; and solve problems relating to applications. Students will reason mathematically and communicate their thinking as they solve multi-step problems.

Prerequisites- MPM2D OR MFM2P



### **Functions- MCR3U (University)**

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.

Prerequisites-MPM2D OR MCF3M1

### **Electives (Choose 6):**

#### **Arts**

##### **Media Arts- ASM3M**

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

Prerequisites- ASM2O

##### **Dramatic Arts-ADA3M**

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.

Prerequisites- ADA1O OR ADA2O

#### **Business**

##### **Financial Accounting Fundamentals- BAF3M**

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.

##### **Marketing: Goods, Services, Events- BMI3C**

This course introduces the fundamental concepts of product marketing, which includes the marketing of goods, services, and events. Students will examine how trends, issues, global economic changes, and information technology influence consumer buying habits. Students will engage in marketing research, develop marketing strategies, and produce a marketing plan for a product of their choice.

#### **Canadian & World Studies**

##### **Understanding Canadian Law- CLU3M**

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.

Prerequisites- CHC2D OR CHC2P

##### **Travel and Tourism: A Geographic Perspective- CGG3O**

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.

Prerequisites- CGC1D OR CGC1P

##### **World History to the End of the Fifteenth Century- CHW3M**

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.

Prerequisites-CHC2D OR CHC2P

## **Computer Science**

### **Introduction to Computer Programming- ICS3C (College)**

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.

### **Introduction to Computer Science- ICS3U (University)**

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.

## **Science**

### **Biology- SBI3C(College)**

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.

Prerequisites- SNC2D OR SNC2P

### **Biology- SBI3U (University)**

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.

Prerequisites- SNC2D

### **Chemistry- SCH3U (University)**

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.

Prerequisites- SNC2D

### **Physics- SPH3U (University)**

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.

Prerequisites-SNC2D

### **Environmental Science-SVN3E (Workplace)**

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.

Prerequisites- SNC1D OR SNC1P OR SNC1L OR SNC2L

## **Social Sciences & Humanities**

### **Introduction to Anthropology, Psychology, Sociology- HSP3C (College)**

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.

### **Introduction to Anthropology, Psychology, Sociology- HSP3U (University)**

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.

### **Health and Physical Education**

#### **Health for Life- PPZ3C**

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.

### **Special Education**

#### **Advanced Learning Strategies: Skills for Success After Secondary School- GLE30**

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

### Compulsory:

#### English

##### English- ENG4C (College)

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.

Prerequisites- ENG3C OR ENG3U OR NBE3C OR NBE3U

##### English- ENG4E (Work Place)

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.

Prerequisites- ENG3E OR ESLDO OR NBE3E

##### English- ENG4U (University)

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.

Prerequisites- ENG3U OR NBE3U

##### Ontario Secondary School Literacy Course- OLC4O

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.

### Electives (Choose 7):

#### Arts

##### Media Arts- ASM4M

This course emphasizes the refinement of media arts skills through the creation of a thematic body of work by applying traditional and emerging technologies, tools, and techniques such as multimedia, computer animation, installation art, and performance art. Students will develop works that express their views on contemporary issues and will create portfolios suitable for use in either career or postsecondary education applications. Students will critically analyse the role of media artists in shaping audience perceptions of identity, culture, and community values.

Prerequisites- ASM3M

##### Dramatic Arts- ADA4E (Workplace)

This course requires students to create, present, and analyse a variety of dramatic works relevant to the workplace. Students will build trust and collaborative skills and develop self confidence through hands-on experience and project-based learning in drama activities. Students will also explore skills related to the study of drama that can be applied in the workplace.

##### Dramatic ♦Arts- ADA4M (Mixed)

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.

Prerequisites- ADA3M OR ADA3O

## **Business**

### **Business Leadership: Management Fundamentals - BOH4M**

This course focuses on the development of leadership skills used in managing a successful business. Students will analyse 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.

### **Financial Accounting Principles- BAT4M**

This course introduces students to advanced accounting principles that will prepare them for postsecondary studies in business. Students will learn about financial statements for various forms of business ownership and how those statements are interpreted in making business decisions. This course expands students' knowledge of sources of financing, further develops accounting methods for assets, and introduces accounting for partnerships and corporations.

Prerequisites- BAF3M

## **Canadian & World Studies**

### **Canadian & International Law- CLN4U (University)**

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.

Prerequisites

CIE3M OR CGD3M OR CGF3M OR CHA3U OR CHW3M OR CLU3M OR CIA4U OR CGW4U OR CGU4M OR CGR4M OR CGO4M OR CHI4U OR CHY4U OR CLN4U OR CPW4U OR ENG3U OR ENG4U OR HNB4M OR HFC3M OR HFA4U OR HHS4U OR HHG4M OR HSP3U OR HSB4U OR HZB3M OR HZT4U OR HRT3M OR HSE4M OR HSG3M OR HSC4M OR NBE3U

### **Legal Studies- CLN4C (College)**

This course provides a foundation for students who wish to pursue a career that requires an understanding of law. Students will explore the importance of law, analysing contemporary legal issues and their relevance to daily life. They will investigate the requirements for various law-related careers as well as legal responsibilities in the workplace. Students will apply the concepts of legal thinking and the legal studies inquiry process to investigate their rights and responsibilities, legal processes and structures, and the role of law in a changing society.

Prerequisites-CHV2O

### **World Issues: A Geographical Analysis- CGW4U**

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 analyse 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.

Prerequisites

CIE3M OR CGD3M OR CGF3M OR CHA3U OR CHW3M OR CLU3M OR CIA4U OR CGW4U OR CGU4M OR CGR4M OR CGO4M OR CHI4U OR CHY4U OR CLN4U OR CPW4U OR ENG3U OR ENG4U OR HNB4M OR HFC3M OR HFA4U OR HHS4U OR HHG4M OR HSP3U OR HSB4U OR HZB3M OR HZT4U OR HRT3M OR HSE4M OR HSG3M OR HSC4M OR NBE3U

### **World History since the Fifteenth Century- CHY4U**

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.

Prerequisites

CIE3M OR CGD3M OR CGF3M OR CHA3U OR CHW3M OR CLU3M OR CIA4U OR CGW4U OR CGU4M OR CGR4M OR CGO4M OR CHI4U OR CHY4U OR CLN4U OR CPW4U OR ENG3U OR ENG4U OR HNB4M OR HFC3M OR HFA4U OR HHS4U OR HHG4M OR HSP3U OR HSB4U OR HZB3M OR HZT4U OR HRT3M OR HSE4M OR HSG3M OR HSC4M

## **Computer Science**

### **Computer Science- ICS4U (University)**

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.

Prerequisites- ICS3U

**Computer Programming- ICS4C (College)**

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. Prerequisites- ICS3C

**Mathematics****Foundations for College- MAP4C (College)**

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.

Prerequisites- MBF3C OR MCF3M

**Mathematics for College Technology- MCT4C (College)**

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

Prerequisites- MCF3M OR MCR3U

**Mathematic for Work and Everyday Life- (MEL4E)**

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.

Prerequisites- MEL3E

**Advanced Functions- MHF4U (University)**

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.

Prerequisites- MCR3U OR MCT4C

**Calculus & Vectors- MCV4U (University)**

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.

Prerequisites- MCR3U

**Data Management- MDM4U (University)**

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.

Prerequisites- MCR3U OR MCF3M

**Science****Biology- SBI4U (University)**

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.

Prerequisites- SBI3U

### **Chemistry- SCH4C (College)**

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.

Prerequisites- SNC2D OR SNC2P

### **Chemistry- SCH4U (University)**

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.

Prerequisites- SCH3U

### **Physics- SPH4C (College)**

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.

Prerequisites- SNC2D OR SNC2P

### **Physics- SPH4U (University)**

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.

Prerequisites- SPH3U

### **Social Sciences & Humanities**

Human Development Throughout the Lifespan- HHG4M

This course offers a multidisciplinary approach to the study of human development throughout the lifespan. Students will learn about a range of theoretical perspectives on human development. They will examine threats to healthy development as well as protective factors that promote resilience. Students will learn about physical, cognitive, and social-emotional development from the prenatal period through old age and will develop their research and inquiry skills by investigating issues related to human development.

Pre-requisites

CIE3M OR CGD3M OR CGF3M OR CHA3U OR CHW3M OR CLU3M OR CIA4U OR CGW4U OR CGU4M OR CGR4M OR CGO4M OR CHI4U OR CHY4U OR CLN4U OR CPW4U OR ENG3U OR ENG3C OR ENG4U OR ENG4C OR HNB4M OR HFC3M OR HFA4U OR HHS4U OR HSP3U OR HSB4U OR HZB3M OR HZT4U OR HRT3M OR HSE4M OR HSG3M OR HSC4M OR CGW4C OR CHY4C OR CLN4C OR HNC3C OR HFA4C OR HHS4C OR HPW3C OR HPD4C OR HSP3C

### **Families in Canada- HHS4C (College)**

This course enables students to develop an understanding of social science theories as they apply to individual development, the development of intimate relationships, and family and parent-child relationships. Students will explore a range of issues relating to the development of individuals and families in contemporary Canadian society as well as in other cultures and historical periods. They will develop the investigative skills required to conduct research on individuals, intimate relationships, and parent-child roles and relationships in Canada.

Pre-requisites

CIE3M OR CGD3M OR CGF3M OR CHA3U OR CHW3M OR CLU3M OR CIA4U OR CGW4U OR CGU4M OR CGR4M OR CGO4M OR CHI4U OR CHY4U OR CLN4U OR CPW4U OR ENG3U OR ENG3C OR ENG4U OR ENG4C OR HNB4M OR HFC3M OR HFA4U OR HHS4U OR HHG4M OR HSP3U OR HSB4U OR HZB3M OR HZT4U OR HRT3M OR HSE4M OR HSG3M OR HSC4M OR CGW4C OR CHY4C OR CLN4C OR HNC3C OR HFA4C OR HPW3C OR HPD4C OR HSP3C OR NBE3U OR NBE3C OR NBE3E

### **Families in Canada- HHS4U (University)**

This course enables students to draw on sociological, psychological, and anthropological theories and research to analyse 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.

Pre-requisites

CIE3M OR CGD3M OR CGF3M OR CHA3U OR CHW3M OR CLU3M OR CIA4U OR CGW4U OR CGU4M OR CGR4M OR CGO4M OR CHI4U OR CHY4U OR CLN4U OR CPW4U OR ENG3U OR ENG4U OR HNB4M OR HFC3M OR HFA4U OR HHG4M OR HSP3U OR HSB4U OR HZB3M OR HZT4U OR HRT3M OR HSE4M OR HSG3M OR HSC4M OR NBE3U OR NBE3C

### **Challenge & Change in Society- HSB4U (University)**

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.

Pre-requisites

CIE3M OR CIA4U OR CGD3M OR CGF3M OR CGW4U OR CGU4U OR CGR4M OR CGO4M OR CHA3U OR CHW3M OR CHI4U OR CHY4U OR CLU3M OR CLN4U OR CPW4U OR CGU4C OR CHH3C OR CHY4C OR ENG3U OR ENG4U OR ETC3M OR ETS4U OR EWC4U OR ENG3C OR ENG4C OR ETS4C OR EWC4C OR HFA4M OR HHS4M OR HHG4M OR HSP3M OR HZT4U OR HRT3M OR HPW3C OR HIR3C OR NBE3C OR NBE3U

### **Health and Physical Education**

#### **Introduction to Kinesiology- PSK4U**

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.

Prerequisites- SBI3U OR SCH3U OR SPH3U OR SNC3M OR PPL3O OR PPZ3C OR PPL4O

### **Special Education**

#### **Advanced Learning Strategies: Skills for Success After Secondary School- GLE4O**

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.

## English as a Second Language

### **ESLAO**

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.

### **ESLBO**

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.

Prerequisites- ESLAO

### **ESLCO**

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.

Prerequisites- ESLBO

### **ESLDO**

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 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.

Prerequisites- ESLCO

### **ESLEO**

This course provides students with the skills and strategies they need to make the transition to college and university preparation courses in English and other secondary school disciplines. Students will be encouraged to develop independence in a range of academic tasks. They will participate in debates and lead classroom workshops; read and interpret literary works and academic texts; write essays, narratives, and reports; and apply a range of learning strategies and research skills effectively. Students will further develop their ability to respond critically to print and media texts.

Prerequisites- ESLDO