

<p>Visual Arts</p> <p>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.</p> <p>CREDIT: 1</p>	<p style="text-align: right;">AVI20</p> <p style="text-align: center;">TYPE: Open</p> <p style="text-align: right;">GRADE: 10</p>
<p>Dramatic Arts</p> <p>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.</p> <p>CREDIT: 1</p> <p>PREREQUISITE: ADA10 - Dramatic Arts or ADA20 - Dramatic Arts</p>	<p style="text-align: right;">ADA3M</p> <p style="text-align: center;">TYPE: University/College</p> <p style="text-align: right;">GRADE: 11</p>
<p>Guitar Music</p> <p>Students will be introduced to the fundamentals of guitar performance. The course includes the reading of music, basic chording and strumming patterns. Students will perform music from many genres including, folk, rock and classical. Students will respond with insight to live and recorded performances using musical language. They will also analyze how to apply skills developed in music to their life and careers. Prior musical experience is not necessary.</p> <p>CREDIT: 1</p>	<p style="text-align: right;">AMG30</p> <p style="text-align: center;">TYPE: Open</p> <p style="text-align: right;">GRADE: 11/12</p>
<p>Instrumental Music – Band</p> <p>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.</p> <p>CREDIT: 1</p> <p>PREREQUISITE: AMU10 - Music or AMU20 - Music</p>	<p style="text-align: right;">AMU3M</p> <p style="text-align: center;">TYPE: University/College</p> <p style="text-align: right;">GRADE: 11</p>
<p>Media Arts</p> <p>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.</p> <p>CREDIT: 1</p> <p>PREREQUISITE: ASM20 - Media Arts</p>	<p style="text-align: right;">ASM3M</p> <p style="text-align: center;">TYPE: University/College</p> <p style="text-align: right;">GRADE: 11</p>
<p>Visual Arts</p> <p>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).</p> <p>CREDIT: 1</p> <p>PREREQUISITE: AVI10 - Visual Arts or AVI20 - Visual Arts</p>	<p style="text-align: right;">AVI3M</p> <p style="text-align: center;">TYPE: University/College</p> <p style="text-align: right;">GRADE: 11</p>
<p>Visual Arts</p> <p>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</p>	<p style="text-align: right;">AVI30</p>

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.

CREDIT: 1

TYPE: Open

GRADE: 11

PREREQUISITE: AVI10 - Visual Arts **or** AVI20 - Visual Arts

Dramatic Arts

ADA4M

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.

CREDIT: 1

TYPE: University/College

GRADE: 12

PREREQUISITE: ADA3M - Dramatic Arts

Instrumental Music – Band

AMU4M

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.

CREDIT: 1

TYPE: University/College

GRADE: 12

PREREQUISITE: AMU3M - Instrumental Music – Band

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.

CREDIT: 1

TYPE: University/College

GRADE: 12

PREREQUISITE: ASM3M - Media Arts

Visual Arts

AVI4M

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.

CREDIT: 1

TYPE: University/College

GRADE: 12

PREREQUISITE: AVI3M - Visual Arts **or** AVI30 – Visual Arts

Photography

AWQ4M

This course refines student's abilities to use the photographic medium to express ideas, change meaning through context, and further their understanding of visual culture. Students will deepen their understanding of photographic movements and skills, while investigating how they might use these skills in their own work, as well as recognize them in the work of others (historical and contemporary artists, peer work).

CREDIT: 1

TYPE: University/College

GRADE: 12

PREREQUISITE: ASM3M – Media Arts

BUSINESS STUDIES

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.

CREDIT: 1

TYPE: Open

GRADE: 9

Introduction to Business

BBI20

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.

CREDIT: 1

TYPE: Open

GRADE: 10

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.

CREDIT: 1

TYPE: College

GRADE: 12

Entrepreneurship: Venture Planning

BDV4C

This course focuses on the application of entrepreneurial characteristics and skills. Students will learn how to develop a venture plan. In making the plan, they will consider available resources, analyze the potential market base, identify legal requirements and available financing, evaluate all aspects of the plan, and identify the management skills and technology that would be required in carrying out their plan.

COURSE NOTE: Recommended Prerequisite: BMI3C-Introduction to Marketing

CREDIT: 1

TYPE: College

GRADE: 12

Geography of Canada

CGC1D

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.

CREDIT: 1

TYPE: Academic

GRADE: 9

Canadian History since World War I

CHC2D

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.

CREDIT: 1

TYPE: Academic

GRADE: 10

Canadian History since World War I

CHC2P

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.

CREDIT: 1

TYPE: Applied

GRADE: 10

Civics

CHV2O

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.

CREDIT: 0.5

TYPE: Open

GRADE: 10

First Nations, Metis, and Inuit Peoples in Canada

NAC2O

This course explores First Nations, Métis, and Inuit peoples' relationships with Canada from pre-contact to the 21st century. Students will examine social, economic, political and military interactions that impact the contemporary realities of Aboriginal people in Canada in relation to identity, culture, community, land, and governance. Students will explore their own and others' ideas using the historical inquiry process to think critically and respond responsibly about civic questions raised today as a result of the changing relationships.

NOTE – This course fulfills the Canadian History requirement toward OSSD.

CREDIT: 1

TYPE: Open

GRADE: 10

Travel and Tourism: A Regional 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.

CREDIT: 1

TYPE: Open

GRADE: 11

PREREQUISITE: CGC1D - Geography of Canada

American History

CHA3U

This course explores key aspects of the social, economic, and political development of the United States from precontact to the present. Students will examine the contributions of groups and individuals to the country's evolution and will explore the historical context of key issues, trends, and events that have had an impact on the United States, its identity and culture, and its role in the global community. 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 various forces that helped shape American history.

CREDIT: 1

TYPE: University

GRADE: 11

PREREQUISITE: CHC2D - Canadian History in the Twentieth Century **or** CHC2P - Canadian History in the Twentieth Century **or** NAC2O - First Nations, Metis, and Inuit Peoples in Canada

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.

CREDIT: 1

TYPE: University/College

GRADE: 11

PREREQUISITE: CHC2D - Canadian History in the Twentieth Century **or** CHC2P - Canadian History in the Twentieth Century **or** NAC2O - First Nations, Metis, and Inuit Peoples in Canada

Canadian and World Issues: A Geographic 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.

CREDIT: 1

TYPE: University

GRADE: 12

PREREQUISITE: Any university or university/college preparation course in Canadian and world studies, English, or social sciences and humanities.

Canada: History, Identity, and Culture

CHI4U

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.

CREDIT: 1

TYPE: University

GRADE: 12

PREREQUISITE: Any university or university/college preparation course in Canadian and world studies, English, or social sciences and humanities

Adventures in World History

CHM4E

This course examines significant developments and events in world history from earliest times to the present. Students will explore a variety of social, cultural, economic, and political developments in different regions of the world and during different periods. In addition to investigating how conflict, religion, work, and technology have helped shape people's lives, students will examine the contributions of some significant individuals to our global heritage. Students will apply the concepts of historical thinking and the historical inquiry process, including the interpretation and analysis of evidence, when investigating a variety of human experiences in world history.

CREDIT: 1

TYPE: Workplace

GRADE: 12

PREREQUISITE: CHC2D - Canadian History in the Twentieth Century **or** CHC2P - Canadian History in the Twentieth Century **or** NAC20

World History since the Fifteenth Century

CHY4C

This course explores key developments and events in world history since approximately 1450, with a focus on interactions within and between various regions. Students will examine social, economic, and political developments and how they have affected different peoples. 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 key turning points in world history and historical forces that have shaped our world.

CREDIT: 1

TYPE: College

GRADE: 12

PREREQUISITE: Any college, university or university/college preparation course in Canadian and World Studies, English, or Social Sciences and Humanities.

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.

CREDIT: 1

TYPE: University

GRADE: 12

PREREQUISITE: Any university or university/college preparation course in Canadian and world studies, English, or social sciences and humanities.

Analysing Current Economic Issues

CIA4U

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.

CREDIT: 1

TYPE: University

GRADE: 12

PREREQUISITE: Any university or university/college preparation course in Canadian and world studies, English, or social sciences and humanities

Legal Studies

CLN4C

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.

CREDIT: 1

TYPE: College

GRADE: 12

PREREQUISITE: Civics and Citizenship, Grade 10, Open

Canadian and International Law

CLN4U

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.

CREDIT: 1

TYPE: University

GRADE: 12

PREREQUISITE: Any university or university/college preparation course in Canadian and World Studies, English, or Social Sciences and Humanities.

CO-OPERATIVE EDUCATION

Creating Opportunities through Co-op - 2 credits

DC030

This course consists of a learning experience connected to a community and a cooperative education curriculum focused on developing skills, knowledge, and habits of mind that will support students 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 skills, knowledge, and habits of mind that will protect and promote their health, safety, and well-being and that will strengthen their inquiry, decision-making, and leadership skills. Students will create and implement a learning plan that meets their interests and needs, reflect on their learning, and make connections between their experience in the community and other aspects of their lives.

COURSE NOTE: Students selecting co-op as an option **MUST** complete an Application Form which may be obtained in the guidance office.

The Application **MUST** be submitted with the Course Selection "Sign-Off" sheet or you may not be considered for co-op next year.

*Students must provide their own transportation to and from co-op placement.

CREDIT: 2

TYPE: Open

GRADE: 11/12

PREREQUISITE: GLC20 - Career Studies

COMPUTER INFORMATION & TECHNOLOGY

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.

CREDIT: 1**TYPE:** Open**GRADE:** 9

Computer Technology

TEJ20

This course introduces students to computer systems, networking, and interfacing, as well as electronics and robotics. Students will assemble, repair, and configure computers with various types of operating systems and application software. Students will build small electronic circuits and write computer programs to control simple peripheral devices or robots. Students will also develop an awareness of related environmental and societal issues and will learn about secondary and postsecondary pathways and career opportunities in computer technology.

CREDIT: 1**TYPE:** Open**GRADE:** 10

Introduction to Computer Science

ICS3U

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.

COURSE NOTE: Recommended: ICS20**CREDIT:** 1**TYPE:** University**GRADE:** 11

Computer Science

ICS4U

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.

CREDIT: 1**TYPE:** University**GRADE:** 12**PREREQUISITE:** ICS3U - Introduction to Computer Science

ENGLISH

English

ENG1D

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 or applied English course, which leads to university or college preparation courses in Grades 11 and 12.

CREDIT: 1**TYPE:** De-streamed**GRADE:** 9

English

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 10 Locally Developed Compulsory Course. The course is organized into 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 on 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.

CREDIT: 1**TYPE:** Locally Developed**GRADE:** 9

English

ENG2D

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.

CREDIT: 1

TYPE: Academic

GRADE: 10

PREREQUISITE: ENG1D - English

English

ENG2L

In this course, students focus on extending their literacy and communication skills to prepare for success in their daily lives, in the workplace, or in the English Grade 11 Workplace Preparation course. The course is organized into 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, and reflect regularly upon their growth in these areas.

CREDIT: 1

TYPE: Locally Developed

GRADE: 10

PREREQUISITE: A Grade 9 English credit

English

ENG2P

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.

CREDIT: 1

TYPE: Applied

GRADE: 10

PREREQUISITE: ENG1D - English

English: Contemporary Aboriginal Voices

NBE3E

This course focuses on content, forms, and style of literary, informational, and graphic texts of First Nation, Métis, and Inuit authors in Canada. They will investigate the connections between text forms and audiences on themes such as identity, culture, community, relationships, and sovereignty in the 21st century. Students will create oral, written, and media focusing on using language for practical and workplace purposes. The course is intended to prepare students for the compulsory Grade 12 workplace preparation course.

CREDIT: 1

TYPE: Workplace

GRADE: 11

PREREQUISITE: ENG2D - English **or** ENG2P - English **or** ENG2L - English

English: Contemporary Aboriginal Voices

NBE3C

This course explores the themes, forms, and stylistic elements 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.

PREREQUISITE: ENG2P **or** ENG2D - English

CREDIT: 1

TYPE: College

GRADE: 11

English: Contemporary Aboriginal Voices

NBE3U

This course focuses on themes, forms, and stylistic elements of a range of literary, informational, and graphic texts of First Nation, Métis, and Inuit authors in Canada. They will analyze changes in use of text forms by Aboriginal authors over time periods and within cultures when expressing themes of identity, relationships, and sovereignty in the 21st century. Students will create oral, written, and media texts to explore their own ideas and understanding focusing on

the development of literacy, communication, 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 university preparation course.

CREDIT: 1

TYPE: University

GRADE: 11

PREREQUISITE: ENG2D - English

English

ENG4C

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.

CREDIT: 1

TYPE: College

GRADE: 12

English

ENG4E

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.

CREDIT: 1

TYPE: Workplace

GRADE: 12

English

ENG4U

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.

CREDIT: 1

TYPE: University

GRADE: 12

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.

CREDIT: 1

TYPE: Open

GRADE: 12

FRENCH & CAYUGA LANGUAGE

Core French

FSF1D

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.

COURSE NOTE: Prerequisite: Minimum of 600 hours of French instruction or equivalent.

CREDIT: 1

TYPE: De-streamed

GRADE: 9

Open French

FSF10

This course 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.

CREDIT: 1

TYPE: Open

GRADE: 9

Core French

FSF2D

This course provides opportunities for students to communicate in French about personally relevant, familiar, and academic topics with increasing independence. Students will exchange information, ideas, and opinions with others in guided and increasingly spontaneous spoken interactions. Students will develop their skills in listening, speaking, reading, and writing through the selective use of strategies that contribute to effective communication. They will also increase their understanding and appreciation of diverse French-speaking communities. Technology is integrated into lessons and projects to make classes fun and exciting.

CREDIT: 1

TYPE: Academic

GRADE: 10

PREREQUISITE: FSF1D - Core French

Core French

FSF3U

This course offers students extended opportunities to increase their fluency in French by speaking and interacting in real-life situations with greater independence. Students will develop their listening, speaking, reading, and writing skills, as well as their creative and critical thinking skills, through responding to and exploring a variety of oral and written texts. They will also broaden their understanding and appreciation of diverse French-speaking communities, and will develop skills necessary for lifelong language learning.

CREDIT: 1

TYPE: University

GRADE: 11

PREREQUISITE: FSF2D - Core French

Core French

FSF4U

This course provides extensive opportunities for students to speak and interact in French independently. Students will develop their listening, speaking, reading, and writing skills, apply language learning strategies in a wide variety of real-life situations, and develop their creative and critical thinking skills through responding to and interacting with a variety of oral and written texts. They will also enrich their understanding and appreciation of diverse French-speaking communities, and will develop skills necessary for lifelong language learning. In grade 12 French, students will have the opportunity to earn a certificate of bilingualism called the DELF. This certificate is valid for life and will enhance a resume.

CREDIT: 1

TYPE: University

GRADE: 12

PREREQUISITE: FSF3U - Core French

Cayuga Language, Level 1

LNAAO

This course is open to the entire student body and will allow students who have no prior Cayuga language to develop an appreciation for Cayuga language and culture, to explore and experience a unique world view, and to learn to speak Cayuga language. Students will use the Cayuga language 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.

CREDIT: 1

TYPE: Open

GRADE: 9

Cayuga Language, Level 2

LNABO

This course will enable students to experience the unique respect for life that permeates Cayuga Language and culture. 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 Cayuga language study, has successfully completed NL1, or demonstrates the required proficiency.

CREDIT: 1

TYPE: Open

GRADE: 10

PREREQUISITE: At least four years of study of a Native language in elementary school, successful completion of NL1, or demonstrated proficiency

GUIDANCE & CAREER EDUCATION

Learning Strategies

GLS10

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

CREDIT: 1

TYPE: Open

GRADE: 9

PREREQUISITE: Recommendation of Principal

Career Studies

GLC20

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.

CREDIT: 0.5

TYPE: Open

GRADE: 10

Leadership and Peer Support

GPP30

This course prepares students to act in leadership and peer support roles. They will design and implement a plan for contributing to their school and/or community; develop skills in communication, interpersonal relations, teamwork, and conflict management; and apply those skills in leadership and/or peer support roles – for example, as a student council member or a peer tutor. Students will examine group dynamics and learn the value of diversity within groups and communities.

CREDIT: 1

TYPE: Open

GRADE: 11

Interdisciplinary Studies

IDC4U

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.

CREDIT: 1

TYPE: University

GRADE: 12

PREREQUISITE: Any university or university/college preparation course.

HEALTH & PHYSICAL EDUCATION

Hockey Skills Academy

PAL10

This course emphasizes students' daily participation in a variety of enjoyable physical activities that promote lifelong healthy active living. Students will learn movement techniques and principles, ways to improve personal fitness and physical competence, and safety/injury prevention strategies. Although students will participate in a variety of sports, the emphasis of this course is on hockey skill development. There are approximately 30 on-ice sessions to develop fitness and skills. They will also 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 goalsetting, communication, and social skills. All students are eligible for the Hockey Canada Skills Academy regardless of gender or skill level.

*Full equipment and a course fee of approximately \$170.00 is required. Candidates may be subjected to a selection process.

**Note: Students are permitted to take both PPL10 F/M and PAL10 (A second credit in physical education will be awarded).

CREDIT: 1

TYPE: Open

GRADE: 9

Healthy Active Living Education – Male

PPL10B

This course equips students with the knowledge and skills they need to make healthy choices now and lead healthy, active lives in the future. Through participation in a wide range of physical activities, students develop knowledge and skills related to movement competence and personal fitness that provide a foundation for active living. Students also acquire an understanding of the factors and skills that contribute to healthy development and learn how their own well-being is affected by, and affects, the world around them. Students build their sense of self, learn to interact positively with others, and develop their ability to think critically and creatively. *Note: Students are permitted to take both PPL10M and PAL10 (A second credit in physical education will be awarded).

CREDIT: 1

TYPE: Open

GRADE: 9

Healthy Active Living Education – Female

PPL10G

This course equips students with the knowledge and skills they need to make healthy choices now and lead healthy, active lives in the future. Through participation in a wide range of physical activities, students develop knowledge and skills related to movement competence and personal fitness that provide a foundation for active living. Students also acquire an understanding of the factors and skills that contribute to healthy development and learn how their own well-being is affected by, and affects, the world around them. Students build their sense of self, learn to interact positively with others, and develop their ability to think critically and creatively. *Note: Students are permitted to take both PPL10F and PAL10 (A second credit in physical education will be awarded).

CREDIT: 1

TYPE: Open

GRADE: 9

Hockey Skills

PAL20

This course emphasizes regular participation in a variety of enjoyable physical activities that promote lifelong healthy active living. Student learning will include the application of movement principles to refine skills; participation in a variety of activities that enhance personal competence, fitness and health; examination of issues related to healthy sexuality, healthy eating, substance use and abuse; and the use of informed decision-making, conflict resolution, and social skills in making personal choices. The emphasis of this course is on hockey skill development. There are approximately 30 on-ice sessions as well as various dry land sessions to develop fitness and skills. All students are eligible for the Hockey Canada Skills Academy regardless of gender or skill level.

*Full equipment and a course fee of approximately \$170.00 is required. Candidates may be subjected to a selection process.

**Note: Students are permitted to take both PPL20 F/M and PAL20 (A second credit in physical education will be awarded).

CREDIT: 1

TYPE: Open

GRADE: 10

Healthy Active Living Education - Male

PPL20B

This course enables students to further develop the knowledge and skills they need to make health 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.

*Note: Students are permitted to take both PPL2OM and PAL2O (A second credit in physical education will be awarded).

CREDIT: 1

TYPE: Open

GRADE: 10

Healthy Active Living Education - Female

PPL2OG

This course enables students to further develop the knowledge and skills they need to make health 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.

*Note: Students are permitted to take both PPL2OF and PAL2O (A second credit in physical education will be awarded).

CREDIT: 1

TYPE: Open

GRADE: 10

Personal and Fitness Activities

PAF30

This course focuses on the development of a healthy lifestyle and participation in a variety of enjoyable personal fitness activities that have the potential to engage students throughout their lives. Students will be encouraged to develop personal competence in a variety of personal and fitness activities. Students will be given opportunities to practice goal setting, decision making, and social and interpersonal skills. Students will also learn about healthy eating, an active lifestyle and a positive self-image.

*Note: Students are permitted to take each of PPL30, PAI3OF and PAF30 (individual credits in physical education will be awarded for each).

CREDIT: 1

TYPE: Open

GRADE: 11

Basketball Skills Academy

PAL30

This course emphasizes students' daily participation in a variety of physical activities that promote an active lifestyle. Students will learn movement techniques and principles, ways to improve personal fitness and physical competence that provide a foundation for lifelong active living. Students will have the opportunity to participate in a variety of different physical activities, however the focus throughout the course will primarily be on basketball development. Three days a week will be designated for basketball skills, strategies, and in-game tactics while two days a week will focus on other forms of physical activity and health. In addition to the basketball focus of the course the health units will focus on nutrition, healthy relationships, substance use and addictions. All students are eligible to take the course regardless of gender or skill level.

CREDIT: 1

TYPE: Open

GRADE: 11

Female Fitness & Games

PAI3OG

This course emphasizes regular participation in a variety of enjoyable physical activities that promote lifelong healthy living. Student learning will include application of movement principles to refine skills; participation in a variety of activities that enhance personal competence, fitness, and health; examination of issues related to healthy sexuality, healthy eating, substance use and abuse; and the use of informed decision making, conflict resolution, and social skills in making personal choices. *Note: Students are permitted to take each of PPL30, PAI3OF and PAF30 (individual credits in physical education will be awarded for each).

CREDIT: 1

TYPE: Open

GRADE: 11

Healthy Active Living Education

PPL30

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.

CREDIT: 1

TYPE: Open

GRADE: 11

Advanced Personal and Fitness Activities

PAF40

This course focuses on the development of a healthy lifestyle and participation in a variety of enjoyable personal fitness activities that have the potential to engage students throughout their lives. Students will be encouraged to develop personal competence in a variety of personal and fitness activities. Students will be given opportunities to practice goal setting, decision making, and social and interpersonal skills. Students will also learn about healthy eating, a safe drug free active lifestyle while building a positive self-image.

*Note: Students are permitted to take both PPL40 and PAF40 (a second credit in physical education will be awarded)

CREDIT: 1

TYPE: Open

GRADE: 12

Healthy Active Living Education - Co-ed

PPL40

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. *Note: Students are permitted to take both PPL40 and PAF40 (a second credit in physical education will be awarded)

CREDIT: 1

TYPE: Open

GRADE: 12

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 sports, and the factors that influence an individual's participation in physical activity. The course prepares students for university programs in physical education, kinesiology, recreation, and sports administration.

*Although a gr 11 or 12 open course in health and physical education are considered "prerequisites"; we recommend a gr 11 'U' or 'M' science, as it is a better indicator for success in this demanding course.

CREDIT: 1

TYPE: University

GRADE: 12

PREREQUISITE: Any Grade 11 university or university/college preparation course in Science, or any Grade 11 or 12 open course in Health and Physical Education.

MATHEMATICS

De-streamed Grade 9 Mathematics

MTH1W

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.

CREDIT: 1

TYPE: De-streamed

GRADE: 9

Mathematics (Locally Developed)

MAT1L

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 Grade 11 and Grade 12 Mathematics 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.

CREDIT: 1

TYPE: Locally Developed

GRADE: 9

Mathematics (Locally Developed)

MAT2L

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 for everyday life courses. The course is organized by three major 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.

CREDIT: 1

TYPE: Locally Developed

GRADE: 10

PREREQUISITE: A Grade 9 Mathematics credit

Foundations of Mathematics

MFM2P

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.

CREDIT: 1

TYPE: Applied

GRADE: 10

PREREQUISITE: MTH1W

Principles of Mathematics

MPM2D

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.

CREDIT: 1

TYPE: Academic

GRADE: 10

PREREQUISITE: MTH1W

Foundations for College Mathematics

MBF3C

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.

CREDIT: 1

TYPE: College

GRADE: 11

PREREQUISITE: MFM2P - Foundations of Mathematics **or** MPM2D - Principles of Mathematics

Functions and Applications

MCF3M

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.

***NOTE: Students with a MFM2P credit require permission from Student Services to enroll in this class. MFM2P students are encouraged to take the transfer course MPM2H in summer school.

CREDIT: 1

TYPE: University/College

GRADE: 11

PREREQUISITE: MPM2D - Principles of Mathematics **or** MFM2P - Foundations of Mathematics

Functions

MCR3U

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.

CREDIT: 1

TYPE: University

GRADE: 11

PREREQUISITE: MPM2D - Principles of Mathematics

Mathematics for Work and Everyday Life

MEL3E

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.

CREDIT: 1

TYPE: Workplace

GRADE: 11

PREREQUISITE: MAT2L - Mathematics (Locally Developed) **or** MFM2P - Foundations of Mathematics **or** MPM2D - Principles of Mathematics

Foundations for College Mathematics

MAP4C

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.

CREDIT: 1

TYPE: College

GRADE: 12

PREREQUISITE: MBF3C - Foundations for College Mathematics **or** MCF3M - Functions and Applications **or** MCR3U - Functions

Calculus and Vectors

MCV4U

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.

CREDIT: 1

TYPE: University

GRADE: 12

PREREQUISITE: Advanced Functions, Grade 12, University Preparation, must be taken prior to or concurrently with Calculus and Vectors.

COREQUISITES: If you take this course, you must also take MHF4U - Advanced Functions

Mathematics of Data Management

MDM4U

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.

CREDIT: 1

TYPE: University

GRADE: 12

PREREQUISITE: MCR3U - Functions **or** MCF3M - Functions and Applications

Advanced Functions

MHF4U

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.

CREDIT: 1

TYPE: University

GRADE: 12

PREREQUISITE: MCR3U – Functions

SCIENCE

De-streamed Science

SNC1W

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.

CREDIT: 1

TYPE: De-streamed

GRADE: 9

Science (Locally Developed)

SNC1L

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. If you wish to continue study science this course prepares you for the Grade 11 Workplace Preparation course.

CREDIT: 1

TYPE: Locally Developed

GRADE: 9

Science

SNC2D

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.

CREDIT: 1

TYPE: Academic

GRADE: 10

PREREQUISITE: SNC1W - Science

Science (Locally Developed)

SNC2L

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 Science Grade 11 Workplace Preparation course. Students explore a range of topics, including science in the media, interactions of common materials, interdependence of organisms in communities, and using electrical energy. 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.

CREDIT: 1

TYPE: Locally Developed

GRADE: 10

Science

SNC2P

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.

CREDIT: 1

TYPE: Applied

GRADE: 10

PREREQUISITE: SNC1W - Science

Biology

SBI3C

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.

CREDIT: 1**TYPE:** College**GRADE:** 11**PREREQUISITE:** SNC2D - Science **or** SNC2P - Science**Biology****SBI3U**

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.

CREDIT: 1**TYPE:** University**GRADE:** 11**PREREQUISITE:** SNC2D - Science**Chemistry****SCH3U**

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.

CREDIT: 1**TYPE:** University**GRADE:** 11**PREREQUISITE:** SNC2D - Science**Physics****SPH3U**

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.

CREDIT: 1**TYPE:** University**GRADE:** 11**PREREQUISITE:** Science, Grade 10 Academic. Recommended: Mathematics, Grade 10, Academic (MPM2D)**Environmental Sciences****SVN3E**

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.

CREDIT: 1**TYPE:** Workplace**GRADE:** 11**PREREQUISITE:** Science, Grade 9**Biology****SBI4U**

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.

CREDIT: 1**TYPE:** University**GRADE:** 12**PREREQUISITE:** Biology, Grade 11 University Preparation. Recommended: Chemistry, Grade 11, Academic (SCH3U)**Chemistry****SCH4C**

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.

CREDIT: 1

TYPE: College

GRADE: 12

PREREQUISITE: SNC2D - Science **or** SNC2P – Science

Chemistry

SCH4U

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.

CREDIT: 1

TYPE: University

GRADE: 12

PREREQUISITE: Chemistry, Grade 11 University Preparation. Recommended: Mathematics, Grade 11, (MCR3U or MCF3M)

University/College Preparation

SNC4M

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 diseases, 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.

CREDIT: 1

TYPE: University/College

GRADE: 12

PREREQUISITE: SNC2D - Science

Physics

SPH4C

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.

CREDIT: 1

TYPE: College

GRADE: 12

PREREQUISITE: SNC2D - Science **or** SNC2P - Science

Physics

SPH4U

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.

CREDIT: 1

TYPE: University

GRADE: 12

PREREQUISITE: Physics, Grade 11, University Preparation. Recommended: Mathematics, Grade 11, (MCR3U or MCF3M)

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.

COURSE NOTE: Students can obtain a credit in either HIF10 or HIF20.

CREDIT: 1

TYPE: Open

GRADE: 9

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.

COURSE NOTE: Students can obtain a credit in either HIF10 or HIF20.

CREDIT: 1

TYPE: Open

GRADE: 10

Raising Healthy Children

HPC30

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.

CREDIT: 1

TYPE: Open

GRADE: 11

Working with Infants & Young Children

HPW3C

This course prepares students for occupations involving children from birth to six years of age. Students will study theories about child behaviour and development and will have opportunities for research and observation and for practical experiences with young children. Students will become familiar with occupational opportunities and requirements related to working with infants and young children. They will also have opportunities to develop research and critical-thinking skills as they investigate and evaluate current research about early childhood education.

CREDIT: 1

TYPE: College

GRADE: 11

World Religions: Beliefs, Issues, and Religious Traditions

HRT3M

This course engages students in the examination of world religions, particularly Judaism, Christianity, Islam and the First Nations, Métis and Inuit Spiritualities and a locally appropriate religious tradition. This is a survey course that will help students understand the basic similarities and differences between the religious traditions, so they can interact with others with acceptance and familiarity. We live in a multi-faith global community. With the knowledge of this course, students ought to be able to understand more clearly the world's religious affairs.

CREDIT: 1

TYPE: University/College

GRADE: 11

Introduction to Anthropology, Psychology & Sociology

HSP3U

This course provides students with opportunities to think critically about theories, questions, and issues related to anthropology, psychology, and sociology. Students will develop an understanding of the approaches and research methods used by social scientists. They will be given opportunities to explore theories from a variety of perspectives,

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

CREDIT: 1

TYPE: University

GRADE: 11

Families in Canada

HHS4U

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.

CREDIT: 1

TYPE: University

GRADE: 12

PREREQUISITE: Any university or university/college preparation course in Social Sciences and Humanities, English, or Canadian and World Studies.

Working with School-Age Children and Adolescents

HPD4C

This course prepares students for occupations involving school-age children and adolescents. Students will study a variety of theories about child behaviour and development and will have opportunities for research and observation and for practical experiences with older children. Students will become familiar with occupational opportunities and requirements related to working with older children and adolescents. They will develop research skills used in investigating child and adolescent behaviour and development.

CREDIT: 1

TYPE: College

GRADE: 12

PREREQUISITE: Any university, college, or university/college preparation course in Social Sciences and Humanities, English, or Canadian and World Studies.

Philosophy: Questions and Theories

HZT4U

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.

CREDIT: 1

TYPE: University

GRADE: 12

PREREQUISITE: Any university or university/college preparation course in Canadian and World Studies, English, or Social Sciences and Humanities.

TECHNOLOGICAL STUDIES

Communication Technology

Communications Technology: Introduction to Communications

TGJ20

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.

CREDIT: 1

TYPE: Open

GRADE: 10

Communications Technology: TV, Video and Movie Production

TGJ3M

This course examines communications technology from a media perspective. Students will develop knowledge and skills as they design and produce media projects in the areas of live, recorded, and graphic communications. These areas may include TV, video, and movie production; radio and audio production; print and graphic communications; photography; digital imaging; broadcast journalism; and interactive new media. Students will also develop an awareness of related environmental and societal issues and will explore college and university programs and career opportunities in the various communications technology fields.

CREDIT: 1

TYPE: University/College

GRADE: 11

Communications Technology: TV, Video and Movie Production

TGV4M

This course enables students to further develop media knowledge and skills while designing and producing projects in the areas of live, recorded, and graphic communications. Students may work in the areas of TV, video, and movie production; digital imaging; broadcast journalism; and interactive new media. Students will also expand their awareness of environmental and societal issues related to communications technology and will investigate career opportunities and challenges in a rapidly changing technological environment.

CREDIT: 1

TYPE: University/College

GRADE: 12

PREREQUISITE: TGJ3M - Communications Technology

Construction Technology

Home Construction and Woodworking

TCJ20

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, 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.

CREDIT: 1

TYPE: Open

GRADE: 10

Home Renovation and Repair

TCC3E

This course is designed to provide students with the knowledge to perform simple home renovations and repairs. Students will learn the basics of a home's structural systems. They will learn about the Ontario Building Code and the various permits required for most projects. They will learn basic techniques, covering details of carpentry, dry walling, various flooring techniques and finish carpentry techniques. The use of tools, materials and techniques will be discussed. Students will receive instruction in safety requirements and demonstrate sound safety practices throughout the duration of the course sequence. Technology related mathematics, reading, writing, vocabulary, blueprint reading, and science are integrated throughout the curriculum.

CREDIT: 1**TYPE: Workplace****GRADE: 11****Construction Engineering Technology: Home Construction****TCJ3C**

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. This will be achieved through the use of an actual workplace. Safety will be paramount on the work site and students will be expected to supply their own safety boots and appropriate clothing for the weather and task of the day.

CREDIT: 1**TYPE: College****GRADE: 11****Home Construction****TCJ3E**

This course enables students to develop technical knowledge and skills related to carpentry, masonry, electrical systems, heating and cooling, and plumbing for residential construction. Students will gain hands-on experience using a variety of materials, processes, tools, and equipment to design, lay out, and build projects. They will create and read technical drawings, learn construction terminology, interpret building codes and regulations, and apply mathematical skills as they develop construction projects. Students will also develop an awareness of environmental and societal issues related to construction technology and will explore postsecondary and career opportunities in the field. This will be achieved through the use of an actual workplace. Safety will be paramount on the work site and students will be expected to supply their own safety boots and appropriate clothing for the weather and task of the day.

CREDIT: 1**TYPE: Workplace****GRADE: 11****Custom Woodworking****TWJ3E**

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.

CREDIT: 1**TYPE: Workplace****GRADE: 11****Introduction to Electrical and Plumbing****TCC4E**

This course is designed to provide students with the knowledge to perform simple home renovations and repairs. Students will learn the basics of a home's mechanical systems. They will learn about the Ontario Building Code and the various permits required for most projects. They will learn basic techniques, covering details of plumbing and residential wiring. The use of tools, materials and techniques will be discussed. Students will receive instruction in safety requirements and demonstrate sound safety practices throughout the duration of the course sequence. Technology related mathematics, reading, writing, vocabulary, blueprint reading, and science are integrated throughout the curriculum.

CREDIT: 1**TYPE: Workplace****GRADE: 12****Construction Engineering Technology: Home Construction (Dual Credit)****TCJ4C**

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. Students will also focus on environmental and societal issues related to construction engineering technology and will explore career opportunities in the field. Safety will be paramount on the work site and students will be expected to supply their own safety boots and appropriate clothing for the weather and task of the day.

CREDIT: 1**TYPE: College****GRADE: 12****PREREQUISITE: TCJ3C - Construction Engineering Technology****Home Construction****TCJ4E**

This course enables students to further develop technical knowledge and skills related to residential construction and to explore light commercial construction. Students will continue to gain hands-on experience using a variety of materials, processes, tools, and equipment; create and interpret construction drawings; and learn more about building design and project planning. They will expand their knowledge of terminology, codes and regulations, and health and safety standards related to residential and light commercial construction. Students will also expand their awareness of environmental and societal issues related to construction technology and will explore entrepreneurship and career opportunities in the industry that may be pursued directly after graduation. This will be achieved through the use of an actual workplace. Safety will be paramount on the work site and students will be expected to supply their own safety boots and appropriate clothing for the weather and task of the day.

CREDIT: 1

TYPE: Workplace

GRADE: 12

PREREQUISITE: TCJ3E - Construction Technology **or** TCJ3C - Construction Engineering Technology

Custom Woodworking

TWJ4E

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.

CREDIT: 1

TYPE: Workplace

GRADE: 12

PREREQUISITE: TWJ3E - Custom Woodworking

Green Industries

Green Industries

THJ3E

This course enables students to develop knowledge and skills related to agriculture, floristry, forestry, horticulture, and landscaping. Students will learn to identify a broad range of plant and animal species; examine factors that affect the growth of plants and animals and the quality of products derived from them; and develop process, design, and maintenance skills required in the green industries. Students will also learn about safe and healthy working practices, develop an awareness of environmental and societal issues related to green industry activities, and learn about apprenticeships and other postsecondary education and training opportunities, as well as employment opportunities that may be pursued directly after graduation.

CREDIT: 1

TYPE: Workplace

GRADE: 11

Green Industries

THJ3M

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 post-secondary education programs and career opportunities.

CREDIT: 1

TYPE: University/College

GRADE: 11

Green Industries: Landscaping Construction and Maintenance

THL3E

This emphasis course focuses on the repair and maintenance of small engines and landscaping equipment related to the industry. An in depth look a various IC engine including 4 stroke, 2 stroke, and diesel fueled single and multi piston engines used for landscaping and grounds maintenance will be part of the curriculum. Correct 2 stroke ratios, oil viscosities, and new innovative technologies will also be explored. Identification of engine components and their function, along with troubleshooting various engine issues will be a component as well. Students will use the equipment to maintain the various gardens, and grounds located at McKinnon Park. Safety equipment will be provided, but steel toe shoes are recommended.

CREDIT: 1

TYPE: Workplace

GRADE: 11

Green Industries

THJ4E

This course enables students to gain further experience with a variety of industry procedures and operations and to acquire additional industry-specific skills. Students will study more complex processes, develop more advanced design

and maintenance skills, and explore 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 in the various industries. The knowledge and skills acquired in this course will prepare students for the workplace and apprenticeship training.

CREDIT: 1

TYPE: Workplace

GRADE: 12

PREREQUISITE: THJ3E - Green Industries **or** THJ3M - Green Industries

Green Industries

THJ4M

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.

CREDIT: 1

TYPE: University/College

GRADE: 12

PREREQUISITE: THJ3M - Green Industries

Hospitality and Tourism

Hospitality and Tourism Technology "Cook Like a Peasant"

TFJ20

This course will provide students with an overview of the NEW reality of cooking from the home, while introducing many of the commercial standards used in the workplace. Seasonal and the more affordable products will be used on a daily basis with an emphasis on sustainable and local foodstuffs. Historical and international techniques will also be explored. Under this umbrella students will have the opportunity to explore different areas and regions of Hospitality and Tourism, with an emphasis on Food Services. Integral Culinary techniques will be studied including Safe Food Handling. Health, Nutrition and Safety standards will be touched on daily as well as the proper usage of professional cooking utensils and equipment. Students will develop an awareness of related environmental and societal issues and will explore secondary and post secondary pathways leading to careers in the ever-expanding Tourism and Hospitality industries.

CREDIT: 1

TYPE: Open

GRADE: 10

Hospitality and Tourism: Baking

TFJ3E

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.

CREDIT: 1

TYPE: Workplace

GRADE: 11

Hospitality and Tourism

TFJ4C

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.

PREREQUISITE: TFJ3C

CREDIT: 1

TYPE: College

GRADE: 12

Hospitality and Tourism

TFJ4E

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.

PREREQUISITE: TFJ3E

CREDIT: 1

TYPE: Workplace

GRADE: 12

Technological Design

Technological Design

TDJ20

This course introduces students to CAD, 3D design, CNC, interior design and architectural design. 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.

CREDIT: 1

TYPE: Open

GRADE: 10

Technological Design

TDJ3M

This course furthers student's knowledge of CAD, 3D design, CNC, interior design and architectural design. Students will research, design, build, and assess solutions that meet specific human needs, using working drawings and other communication methods to present their design ideas. They will develop an awareness of environmental, societal, and cultural issues related to technological design, and will explore career opportunities in the field, as well as the college and/or university program requirements for them.

CREDIT: 1

TYPE: University/College

GRADE: 11

Technological Design

TDJ4M

This course furthers student's knowledge of CAD, 3D design, CNC, interior design and architectural design. Students will apply a systematic design process to research, design, build, and assess solutions that meet specific human needs, using illustrations, presentation drawings, and other communication methods to present their designs. Students will enhance their problem-solving and communication skills and will explore career opportunities and the postsecondary education and training requirements for them.

CREDIT: 1

TYPE: University/College

GRADE: 12

PREREQUISITE: TDJ3M - Technological Design

Technological Design in the Twenty-first Century

TDJ40

This course furthers student's knowledge of CAD, 3D design, CNC, interior design and architectural design. Students will use appropriate tools, techniques, and strategies to research, design, build, and assess prototypes for products and/or processes that respond to society's changing needs. Students will describe how social factors, including culture, media, politics, religion, and environmental concerns, influence technological design. Students will also learn about professional practices in the field, and will research postsecondary pathways leading to careers related to technological design.

CREDIT: 1

TYPE: Open

GRADE: 12

Technological Studies

Exploring Technologies

TIJ10

This course enables students to further explore and develop technological knowledge and skills introduced in the elementary science and technology program. Students will be given the opportunity to design and create products and/or provide services related to the various technological areas or industries, working with a variety of tools, equipment, and software commonly used in industry. Students will develop an awareness of environmental and societal issues and will begin to explore secondary and postsecondary education and training pathways leading to careers in technology-related fields.

CREDIT: 1

TYPE: Open

GRADE: 9