

Arts**Media Arts****Media Arts****ASM20**

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

CREDIT: 1**TYPE:** Open**GRADE:** 10**PREREQUISITE:** Any Arts Course**Media Arts****ASM30**

This course enables students to create media art works using available and emerging technologies such as computer animation, digital imaging, and video, and a variety of media. Students will explore the elements and principles of media arts, the connections between contemporary media art works and traditional art forms, and the importance of using responsible practices when engaged in the creative process. Students will develop the skills necessary to create and interpret media art works.

CREDIT: 1**TYPE:** Open**GRADE:** 11**PREREQUISITE:** ASM20, AWM3M, AWD20**Musical Arts****Music-Instrumental****AMU10**

This course emphasizes the creation and performance of music for brass, woodwind and percussion instruments and is aimed at developing technique, sensitivity, and imagination. Students will develop musical literacy skills by using the creative and critical analysis processes in composition, performance, and a range of reflective and analytical activities. Students will develop an understanding of the conventions and elements of music and of safe practices related to music, and will develop a variety of skills transferable to other areas of their life. No previous experience is required.

CREDIT: 1**TYPE:** Open**GRADE:** 9**Music - Introduction to Guitar****AMG20**

Students will learn basic folk, classical and popular guitar styles. Essential music reading skills and theory skills will be covered. The student must provide a suitable acoustic guitar to participate in this course. No previous experience is required.

CREDIT: 1**TYPE:** Open**GRADE:** 10**PREREQUISITE:** Highly recommended - AMU10**Music - Theatre****AMT20**

This course will provide students with the opportunity to be involved in all aspects of producing and performing in a full-scale, Broadway production, both on-stage and off. This course emphasizes performance of Musical Theatre works at an intermediate level that strike a balance between challenge and skill. Student learning will include participating in creative activities and listening perceptively. Students will also be required to develop a thorough understanding of the language of music, including the Elements, terminology and history. A consumables fee of \$30.00 will be required from each student which will provide them with a musical score, script, rehearsal tape and an "official" t-shirt. This course is offered for 2018/19

CREDIT: 1**TYPE:** Open**GRADE:** 10**Music-Instrumental****AMU20**

This course emphasizes the creation and performance of music at a level consistent with previous experience. Students will develop musical literacy skills by using the creative and critical analysis processes in composition, performance, and a range of reflective and analytical activities. Students will develop their understanding of musical conventions, practices, and terminology and apply the elements of music in a range of activities. They will also explore the function of music in society with reference to the self, communities, and cultures.

CREDIT: 1**TYPE:** Open**GRADE:** 10**PREREQUISITE:** AMU10 - Music-Instrumental

Guitar

AMG30

This course strikes a balance between challenge and skill and is aimed at developing various techniques including strumming, picking, and chord structure. Students will also participate in creative activities that teach them to listen with understanding. They will also develop a thorough understanding of musical elements, terminology and history. Students must provide their own acoustic guitars.

CREDIT: 1

TYPE: Open

GRADE: 11

PREREQUISITE: AMG20 - Music - Introduction to Guitar

Music - Theatre

AMT30

This course will provide students with the opportunity to produce and perform in a major, Broadwaystyle Musical Theatre production. Students will cover the following topics: Singing Technique and Voice Projection for the Theatre, Musical Score, Choreography, Design and Stagecraft, History of Musical Theatre, Stage Movement and Acting Techniques, Scheduling, Publicity, Marketing and Fund-raising and Production Responsibilities. Each student will play a major role both on and off stage, and all who are in the course will be required to participate fully in all aspects of producing and performing in a Musical Theatre production. A consumables fee of \$30.00 will be required from each student which will provide them with a musical score, script, rehearsal CD and an "official" performance t-shirt. This course is offered for 2018/19

CREDIT: 1

TYPE: Open

GRADE: 11

PREREQUISITE: AMU10 or AMU20 or AMT20

Music-Instrumental

AMU3M

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.

CREDIT: 1

TYPE: University/College

GRADE: 11

PREREQUISITE: AMU10 or AMU20

Music-Instrumental

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 - Music-Instrumental

Visual Arts

Visual Arts

AVI10

This course is exploratory in nature, offering an overview of visual arts as a foundation for further study. Students will become familiar with the elements and principles of design and the expressive qualities of various materials by using a range of media, processes, techniques, and styles. Students will use the creative and critical analysis processes and will interpret art within a personal, contemporary, and historical context.

CREDIT: 1

TYPE: Open

GRADE: 9

APPLIED DESIGN

AWD20

After the foundation course is completed, students may choose to specialize in this area of Visual Arts. The process of design is fully explored through studio work with the elements and principles of design as a common language in this course. With this process, students will learn to apply related ideas in a variety of ways such as abstract design, printmaking, logo design, cartooning, architectural modeling, mosaic plaques and computer-aided design. The design theory introduced in this course will be used in the analysis of historical and contemporary examples of art. A portfolio will be

accessed at the middle and end of the course and it is hoped that students will focus on producing works that are well planned and ready for display.

CREDIT: 1

TYPE: Open

GRADE: 10

DRAWING AND PAINTING

AWM20

Once an introductory course has been successfully completed, students are able to focus their creative energies on classical studies in drawing and painting. Portraiture and figure drawing as well as watercolour landscape and still-life studies will be included. Acrylic monochrome and polychrome paintings are also explored in the studio section and the elements and principles of design are used to analyse and understand Canadian and European artworks in the theory section of the course. To complement studies in portraiture, this course will involve the sculpting of a human head or bust. It is hoped that the student will learn the relationships between a three-dimensional form and twodimensional representation of that form. A portfolio will be developed and evaluated at the end of the course and the display of finished work is encouraged.

CREDIT: 1

TYPE: Open

GRADE: 10

PREREQUISITE: AVI10 - Visual Arts

APPLIED DESIGN

AWD3M

After the grade 10 level course is completed (or with permission of the department head), students may choose to specialize in the area of applied design. This course is a continuation of the grade 10 course with emphasis on learning and applying various processes of design. The use of Corel Draw as a design tool after initial "hand-drawn" design is the primary focus during the first term of the course. The second term's studio projects may include cartoon design and sculpture, architectural modeling, fashion design, and interior design with an emphasis on function and producing works ready for display. Murals for the community are frequently designed and painted by students in this course. The use of the elements and principles of design as a common language in the visual arts will be the focus on all studies in theory and related historical and contemporary works. A field-trip to OCA&D is often planned for this course in the spring.

CREDIT: 1

TYPE: University/College

GRADE: 11

PREREQUISITE: AWD20 or with permission of the department head

DRAWING AND PAINTING

AWM3M

Once the grade 10 level has been completed (or with permission of the department head), students may choose this specialized course which is highly recommended for students wishing to take a similar College/ University preparation course in Grade 12. Further exploration of painting technique, styles and media are the focus in this course. Students will be expected to match appropriate painting styles from contemporary and historical works to their own choice of subjects. Drawing in various media and styles are taught as well as painting in acrylic on canvas and masonite. The studio experience will be accompanied by written and oral critiques as well as slide studies and analysis of historical works. A continuation of the portfolio that was started in grade 10 will be encouraged. A class trip to the Ontario College of Art and Design (OCA & D) is often scheduled for courses in the spring.

CREDIT: 1

TYPE: University/College

GRADE: 11

PREREQUISITE: AVI10 or AWM20

Visual Arts-Photography

AWQ30

This course builds on the skills acquired in introductory photography and further challenges students to work in a variety of photographic genres. The emphasis continues to be on technical quality and the development of personal responses and innovative imagery. Students will examine the concepts of and middle period of photographic history and apply a full range of analytical criteria to photographic works. The emphasis is on professional standards and applications.

CREDIT: 1

TYPE: Open

GRADE: 11

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: AWD3M or AWM3M

Business & 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. Students will also create working websites, will study the parts inside the computer and examine computer-related issues such as computer surveillance, computer viruses, and the impact of technology on the environment. Additionally, the skills learned in this course will assist students in other courses throughout their high school career. (Students can only receive credit for one of BTT10 or BTT20.)

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

Information and Communication Technology in Business

BTT20

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. They will also create working websites. Students will study the parts inside the computer and examine computer-related issues such as computer surveillance, computer viruses, and the impact of technology on the environment. The skills learned in this course will assist students complete work in other courses throughout their high school career. (Students can only receive credit for one of BTT10 or BTT20.)

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

Introduction to Computer Studies

ICS20

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

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

Financial Accounting Fundamentals

BAF3M

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

CREDIT: 1**TYPE: University/College****GRADE: 11**

Information Technology Applications In Business

BTA30

This course prepares students for the digital environment. Using a hands-on approach, students will further develop information and communication technology skills through the use of common business software applications. The concept and operation of e-business will be explored, and students will design and create an e-business website. The skills developed in this course will prepare students for success in the workplace and/or post secondary studies.

CREDIT: 1**TYPE: Open****GRADE: 11****PREREQUISITE: HIGHLY RECOMMENDED BTT10**

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.

CREDIT: 1**TYPE: University****GRADE: 11****PREREQUISITE: Recommended - ICS20**

Financial Accounting Principles

BAT4M

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

CREDIT: 1

TYPE: University/College

GRADE: 12

PREREQUISITE: BAF3M - Financial Accounting Fundamentals

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. This course will run subject to sufficient enrolment.

CREDIT: 1

TYPE: University

GRADE: 12

PREREQUISITE: ICS3U - Introduction to Computer Science

Canadian & World Studies

Geography Of Canada

CGC1D

This course explores Canada's distinct and changing character and the geographic systems and relationships that shape it. Students will investigate the interactions of natural and human systems within Canada, as well as Canada's economic, cultural, and environmental connections to other countries. Students will use a variety of geotechnologies and inquiry and communication methods to analyze and evaluate geographic issues and present their findings.

CREDIT: 1

TYPE: Academic

GRADE: 9

Geography Of Canada

CGC1P

This course focuses on geographic issues that affect Canadians today. Students will draw on personal and everyday experiences to learn about Canada's distinct and changing character and the natural and human systems and global influences that shape the country. Students will use a variety of geotechnologies and inquiry and communication methods to examine practical geographic questions and communicate their findings.

CREDIT: 1

TYPE: Applied

GRADE: 9

Canadian History In The Twentieth Century

CHC2D

This course explores the local, national, and global forces that have shaped Canada's national identity from World War I to the present. Students will investigate the challenges presented by economic, social, and technological changes and explore the contributions of individuals and groups to Canadian culture and society during this period. Students will use critical-thinking and communication skills to evaluate various interpretations of the issues and events of the period and to present their own points of view.

CREDIT: 1

TYPE: Academic

GRADE: 10

Canadian History since World War 1

CHC2L

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

CREDIT: 1

TYPE: Locally Developed

GRADE: 10

Canadian History In The Twentieth Century

CHC2P

This course explores some of the events and experiences that have influenced the development of Canada's identity as a nation, from World War I to the present. By examining how the country has responded to economic, social, and technological changes and how individuals and groups have contributed to Canadian culture and society during this period, students will develop their ability to make connections between historical and current events. Students will have opportunities to formulate questions, locate information, develop informed opinions, and present ideas about the central issues and events of the period.

CREDIT: 1

TYPE: Applied

GRADE: 10

Civics

CHV2O

This course explores what it means to be an informed, participating citizen in a democratic society. Students will learn about the elements of democracy in local, national, and global contexts, about political reactions to social change, and about political decision-making processes in Canada. They will explore their own and others' ideas about civics questions and learn how to think critically about public issues and react responsibly to them. This course is a half-credit compulsory requirement for graduation and will be paired with GLC2O.

CREDIT: 0.5

TYPE: Open

GRADE: 10

COREQUISITES: If you take this course, you must also take GLC2O - Career Studies

Travel and Tourism

CGG3O

This course focuses on travel and tourism as the vehicle for studying selected world regions. Using a variety of geo technologies and inquiry and communication methods, students will conduct and present case studies that develop their understanding of the unique characteristics of selected world regions; the environmental, cultural, economic and political factors that influence travel and tourism; and the impact of the travel industry on communities and environments around the world.

CREDIT: 1

TYPE: Open

GRADE: 11

PREREQUISITE: Grade 9 Geography of Canada, Academic or Applied

World History to the Sixteenth Century

CHW3M

This course investigates the history of humanity from earliest times to the sixteenth century. Students will analyse diverse societies from around the world, with an emphasis on the political, cultural, and economic structures and historical forces that have shaped the modern world. They will apply historical inquiry, critical-thinking, and communication skills to evaluate the influence of selected individuals, groups, and innovations and present their conclusions. Highlights of this course include the study of prehistoric humans, ancient Egypt, Greece, Rome and the Medieval World. Other civilizations from Asia, Africa and South America may also be examined.

CREDIT: 1

TYPE: University/College

GRADE: 11

PREREQUISITE: CHC2D or CHC2P

Understanding Canadian Law

CLU3M

This course explores Canadian law with a focus on legal issues that are relevant to people's everyday lives. Students will investigate fundamental legal concepts and processes to gain a practical understanding of Canada's legal system, including the criminal justice system. Students will use critical-thinking, inquiry, and communication skills to develop informed opinions on legal issues and apply this knowledge in a variety of ways and settings, including case analysis, legal research projects, mock trials, and debates.

CREDIT: 1

TYPE: University/College

GRADE: 11

PREREQUISITE: CHC2D or CHC2P

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.

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. This course will be offered every other year. It is offered for the 2016/17 school year.

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.

Classical Studies & International Languages

Spanish, Level 2

LWSBD

This course provides students with opportunities to develop their oral communication skills in the language of study, increase their confidence in using the language in practical situations, and continue to investigate related career opportunities. Students will be involved in activities that promote the use of the language in real-life situations. They will also continue their exploration of the culture of countries where the language under study is spoken. Although students will continue to expand their vocabulary and repertoire of language structures, the language they will use at this level will still be simple.

CREDIT: 1

TYPE: Academic

GRADE: 10

Spanish, Level 3

LWSCU

This course offers students opportunities to further develop their knowledge of the international language and to enhance their communication skills. Students will use increasingly sophisticated language in a variety of activities that will enable them to speak and write with clarity and accuracy. Students will also enhance their thinking skills through the critical study of literature, and continue to explore aspects of the culture of countries where the language is spoken through a variety of print and technological resources.

CREDIT: 1

TYPE: University

GRADE: 11

PREREQUISITE: LWSBD - Spanish, Level 2

Spanish, Level 4

LWSDU

This course prepares students for university studies in the international language. Students will enhance their ability to use the language with clarity and precision, and will develop the language skills needed to engage in sustained conversations and discussions, understand and evaluate information, read diverse materials for both study and pleasure, and write clearly and effectively. Students will also have opportunities to add to their knowledge of the culture of countries where the language is spoken through the use of community resources and computer technology.

CREDIT: 1

TYPE: University

GRADE: 12

PREREQUISITE: LWSCU - Spanish, Level 3

Co-operative Education

Co-Op. 2 Credits, any semester

FTEX2C

No description available

COURSE NOTE: Should have a maximum of 2 compulsory credits to achieve. Must be accepted by the co-op teacher.

CREDIT: 2

TYPE: Open

GRADE: 12

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

CREDIT: 1**TYPE:** Academic**GRADE:** 9**English (Locally Developed)****ENG1L**

This course provides foundational literacy and communication skills to prepare students for success in their daily lives, in the workplace, and in the English Grade 11 and 12 Workplace Preparation courses. The course is organized by strands that develop listening and talking skills, reading and viewing skills, and writing skills. In all strands, the focus is on developing foundational literacy skills and in using language clearly and accurately in a variety of authentic contexts. Students develop strategies and put into practice the processes involved in talking, listening, reading, viewing, writing, and thinking, and reflect regularly upon their growth in these areas.

CREDIT: 1**TYPE:** Locally Developed**GRADE:** 9**OTHER REQUIREMENTS:** Teacher recommendation required**English****ENG1P**

This course is designed to develop the key oral communication, reading, writing, and media literacy skills students need for success in secondary school and daily life. Students will read, interpret, and create a variety of informational, literary, and graphic texts. An important focus will be on identifying and using appropriate strategies and processes to improve students' comprehension of texts and to help them communicate clearly and effectively. The course is intended to prepare students for the Grade 10 applied English course, which leads to college or workplace preparation courses in Grades 11 and 12.

CREDIT: 1**TYPE:** Applied**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 or ENG1P**English (Locally Developed)****ENG2L**

In this course, students focus on extending their literacy and communication skills to prepare for success in their daily lives, in the workplace, in the English Grade 11 Workplace Preparation course (ENG3E), or in the English Contemporary Aboriginal Voices, Grade 11 Workplace Preparation course (NBE3E). The course is organized by strands that extend listening and talking skills, reading and viewing skills, and writing skills. In all strands, the focus is on refining foundational literacy skills and in using language clearly and accurately in a variety of authentic contexts. Students reflect regularly on their growth in these areas.

CREDIT: 1**TYPE:** Locally Developed**GRADE:** 10**PREREQUISITE:** ENG1L - English (Locally Developed) or ENG1P - English or ENG1D - English**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:** ENG1P or ENG1D

English

ENG3C

This course emphasizes the development of literacy, communication, and critical and creative thinking skills necessary for success in academic and daily life. Students will study the content, form, and style of a variety of informational and graphic texts, as well as literary texts from Canada and other countries, and create oral, written, and media texts in a variety of forms for practical and academic purposes. An important focus will be on using language with precision and clarity. The course is intended to prepare students for the compulsory Grade 12 college preparation course.

CREDIT: 1

TYPE: College

GRADE: 11

PREREQUISITE: ENG2P or ENG2D

English

ENG3E

This course emphasizes the development of literacy, communication, and critical and creative thinking skills necessary for success in the workplace and in daily life. Students will study the content, form, and style of a variety of contemporary informational, graphic, and literary texts; and create oral, written, and media texts in a variety of forms for practical purposes. An important focus will be on using language clearly and accurately in a variety of formal and informal contexts. The course is intended to prepare students for the compulsory Grade 12 workplace preparation course.

CREDIT: 1

TYPE: Workplace

GRADE: 11

PREREQUISITE: ENG2P or ENG2L

English

ENG3U

This course emphasizes the development of literacy, communication, and critical and creative thinking skills necessary for success in academic and daily life. Students will analyse challenging literary texts from various periods, countries, and cultures, as well as a range of informational and graphic texts, and create oral, written, and media texts in a variety of forms. An important focus will be on using language with precision and clarity and incorporating stylistic devices appropriately and effectively. The course is intended to prepare students for the compulsory Grade 12 university or college 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

PREREQUISITE: ENG3C - English

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

PREREQUISITE: ENG3E - English

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

PREREQUISITE: ENG3U - English

French As A Second Language

Core French

FSF1D

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

CREDIT: 1

TYPE: Academic

GRADE: 9

Core French

FSF1O

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

CREDIT: 1

TYPE: Open

GRADE: 9

Core French

FSF1P

This course emphasizes the concurrent development of oral communication, reading, and writing skills, using a broad-based theme such as the media. Students will enhance their ability to understand and speak French through conversations, discussions, and presentations. They will also read short stories, articles, poems, and songs, and write brief descriptions, letters, dialogues, and invitations. This course is designed for students taking Applied level English and/or Math.

CREDIT: 1

TYPE: Applied

GRADE: 9

Core French

FSF2D

This course enables students to increase their knowledge of the French language, further develop their language skills, and deepen their understanding and appreciation of Francophone culture around the world. Exploring a variety of themes, students will develop and apply critical thinking skills in discussion, in their analysis and interpretation of texts, and in their own writing.

CREDIT: 1

TYPE: Academic

GRADE: 10

PREREQUISITE: FSF1D or FSF1P

Core French

FSF3U

This course draws on a variety of themes to promote extensive development of reading and writing skills and to reinforce oral communication skills. Students will gain a greater understanding of French-speaking cultures in Canada and around the world through their reading of a variety of different materials, including a short novel or a play. Students will produce various written assignments, including a formal essay. The use of correct grammar and appropriate language conventions in both spoken and written French will be emphasized throughout the course.

CREDIT: 1

TYPE: University

GRADE: 11

PREREQUISITE: FSF2D - Core French

Core French

FSF4U

This course draws on a variety of themes to promote extensive development of French-language skills. Students will consolidate their oral skills as they discuss literature, culture, and current issues. They will read a variety of texts and will write a formal essay. The use of correct grammar and appropriate language conventions in both spoken and written French will be emphasized throughout the course.

CREDIT: 1

TYPE: University

GRADE: 12

PREREQUISITE: FSF3U - Core French

Guidance & Career Education

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. This course is a half-credit compulsory requirement for graduation and will be paired with CHV20.

CREDIT: 0.5

TYPE: Open

GRADE: 10

Health & Physical Education

Healthy Active Living Education

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. Boys only. CPR will also be introduced

CREDIT: 1

TYPE: Open

GRADE: 9

Healthy Active Living Education

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. Girls only. CPR will also be introduced.

CREDIT: 1

TYPE: Open

GRADE: 9

Healthy Active Living Education-Co-Ed

PPL20

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

CREDIT: 1

TYPE: Open

GRADE: 10

Healthy Active Living Education-Co-Ed

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

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.

CREDIT: 1

TYPE: Open

GRADE: 12

Introductory Kinesiology

PSK4U

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

CREDIT: 1

TYPE: University

GRADE: 12

PREREQUISITE: Any Grade 11 university or university/college preparation course in science, or any Grade 11 or 12 course in health and physical education.

Mathematics

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

CREDIT: 1

TYPE: Locally Developed

GRADE: 9

OTHER REQUIREMENTS: Teacher recommendation required

Foundations of Mathematics

MFM1P

This course enables students to develop an understanding of mathematical concepts related to introductory algebra, proportional reasoning, and measurement and geometry through investigation, the effective use of technology, and hands-on activities. Students will investigate real-life examples to develop various representations of linear relations, and will determine the connections between the representations. They will also explore certain relationships that emerge from the measurement of three-dimensional figures and two-dimensional shapes. Students will consolidate their mathematical skills as they solve problems and communicate their thinking. Successful completion of this course prepares students for Foundations of Mathematics, Grade 10, Applied (MFM2P). (Note: Students who wish to take Principles of Mathematics, Grade 10, Academic [MPM2D] after completing this course will need to take a transfer course.) Learning through hands-on activities and the use of concrete examples is an important aspect of this course.

CREDIT: 1

TYPE: Applied

GRADE: 9

Principles of Mathematics

MPM1D

This course enables students to develop an understanding of mathematical concepts related to algebra, analytic geometry, and measurement and geometry through investigation, the effective use of technology, and abstract reasoning. Students will investigate relationships, which they will then generalize as equations of lines, and will determine the connections between different representations of a linear relation. They will also explore relationships that emerge from the measurement of three-dimensional figures and two-dimensional shapes. Students will reason mathematically and communicate their thinking as they solve multi-step problems. Successful completion of this course prepares students for Principles of Mathematics, Grade 10, Academic (MPM2D) or Foundations of Mathematics, Grade 10, Applied (MFM2P). Learning through abstract reasoning is an important aspect of this course.

CREDIT: 1

TYPE: Academic

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 Mathematics Grade 11 and Grade 12 Workplace Preparation courses. The course is organized by three strands related to money sense, measurement, and proportional reasoning. In all strands, the focus is on 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: MAT1L - Mathematics (Locally Developed) or MFM1P - Foundations of Mathematics

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: MFM1P - Foundations of Mathematics or MPM1D - Principles of Mathematics

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: MPM1D - Principles of Mathematics

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.

CREDIT: 1

TYPE: University/College

GRADE: 11

PREREQUISITE: MPM2D or MPM2P

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: Principles of Mathematics, Grade 9, Academic, or Foundations of Mathematics, Grade 9, Applied, or a Grade 10 Mathematics LDCC (locally developed compulsory credit) course

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. Choose MCT4C if you are going into any trade/or college level program that involves technology.

CREDIT: 1

TYPE: College

GRADE: 12

PREREQUISITE: MBF3C or MCF3M

Mathematics for College Technology

MCT4C

This course enables students to extend their knowledge of functions. Students will investigate and apply properties of polynomial, exponential, and trigonometric functions; continue to represent functions numerically, graphically, and algebraically; develop facility in simplifying expressions and solving equations; and solve problems that address applications of algebra, trigonometry, vectors, and geometry. Students will reason mathematically and communicate their thinking as they solve multi-step problems. This course prepares students for a variety of college technology programs. This course will be offered every other year. Not offered for the 2016/17 year

CREDIT: 1

TYPE: College

GRADE: 12

PREREQUISITE: MCR3U or MCF3M

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. This course may be offered every other year.

CREDIT: 1

TYPE: University

GRADE: 12

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

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. This course offered every other year. It is offered for the 2016/17 school year.

CREDIT: 1

TYPE: University

GRADE: 12

PREREQUISITE: MCF3M or MCR3U

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. This course may be offered every other year.

CREDIT: 1

TYPE: University

GRADE: 12

PREREQUISITE: MCR3U or MCT4C

Science

Science

SNC1D

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

CREDIT: 1

TYPE: Academic

GRADE: 9

Science (Locally Developed)

SNC1L

This course emphasizes reinforcing and strengthening science-related knowledge and skills, including scientific inquiry, critical thinking and the relationship between science, society, and the environment, to prepare students for success in everyday life, in the workplace and in the Grade 10 Locally Developed and / or Grade 11 Workplace Science courses. Students explore a range of topics including science in daily life, properties of common materials, life-sustaining processes in simple and complex organisms, and electrical circuits. Students have the opportunity to extend mathematical and scientific process skills and to continue developing their skills in reading, writing, and oral language through relevant and practical science activities.

CREDIT: 1

TYPE: Locally Developed

GRADE: 9

OTHER REQUIREMENTS: Teacher recommendation required

Science

SNC1P

This course enables students to develop their understanding of basic concepts in biology, chemistry, earth and space science, and physics, and to apply their knowledge of science to everyday situations. They are also given opportunities to develop practical skills related to scientific investigation. Students will plan and conduct investigations into practical problems and issues related to the impact of human activity on ecosystems; the structure and properties of elements and compounds; space exploration and the components of the universe; and static and current electricity.

CREDIT: 1

TYPE: Applied

GRADE: 9

Science

SNC2D

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

CREDIT: 1

TYPE: Academic

GRADE: 10

PREREQUISITE: SNC1D or SNC1P

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

PREREQUISITE: SNC1L - Science (Locally Developed)

Science

SNC2P

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

CREDIT: 1

TYPE: Applied

GRADE: 10

PREREQUISITE: SNC1P or SNC1D

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 or SNC2P

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

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: SNC2D - Science

Environmental Science

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. This course replaces IDC 40 and previously SNC 4E

CREDIT: 1

TYPE: Workplace

GRADE: 11

PREREQUISITE: Grade 9 Science, Academic or Applied, or a Grade 9 or 10 locally developed compulsory credit (LDCC) course in science

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: SBI3U - Biology

Chemistry

SCH4C

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

CREDIT: 1

TYPE: College

GRADE: 12

PREREQUISITE: SNC2D or SNC2P

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: SCH3U - Chemistry

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 or SNC2P

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: SPH3U - Physics

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.

CREDIT: 1

TYPE: Open

GRADE: 9

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

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

PREREQUISITE: The Grade 10 academic course in English, or the Grade 10 academic history course (Canadian and world studies)

Challenge and Change in Society

HSB4U

This course examines the theories and methodologies used in anthropology, psychology, and sociology to investigate and explain shifts in knowledge, attitudes, beliefs, and behaviour and their impact on society. Students will analyse cultural, social, and biological patterns in human societies, looking at the ways in which those patterns change over time. Students will also explore the ideas of classical and contemporary social theorists, and will apply those ideas to the analysis of contemporary trends. This course will be offered every other year. Is offered for the 2016/17 school year.

CREDIT: 1

TYPE: University

GRADE: 12

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

Technological Studies

Communications Technology

Exploring Technologies

TIJ10

Students will explore and develop technological skills from one of the five areas of emphasis:

*Communications Technology (Photography and Video)

*Construction Technology (Woodworking)

*Hospitality and Tourism (Food Service Industry)

*Manufacturing Technology (Metal and Welding)

*Transportation Technology (Automotive)

CREDIT: 1

TYPE: Open

GRADE: 9

Communications Technology

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

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

TGJ4M

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; radio and audio production; print and graphic communications; photography; 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

Exploring Technologies

TIJ10

Students will explore and develop technological skills from one of the five areas of emphasis:

- *Communications Technology (Photography and Video)
- *Construction Technology (Woodworking)
- *Hospitality and Tourism (Food Service Industry)
- *Manufacturing Technology (Metal and Welding)
- *Transportation Technology (Automotive)

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

Construction Technology

TCJ20

This course requires students to design, build, and evaluate projects using design instruments and machine and hand tools. Students will solve technological problems through a variety of media; identify and describe building materials and other resources needed to construct, maintain, and service buildings; identify support systems and components; apply safety rules related to materials, processes, and equipment; identify common architectural styles; and identify careers related to construction technology. Emphasis is placed on design and completion of wooden projects.

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

Construction Engineering Technology

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.

CREDIT: 1**TYPE: College****GRADE: 11**

Construction Engineering Technology

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.

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

Hospitality and Tourism

Exploring Technologies

TIJ10

Students will explore and develop technological skills from one of the five areas of emphasis:

- *Communications Technology (Photography and Video)
- *Construction Technology (Woodworking)
- *Hospitality and Tourism (Food Service Industry)
- *Manufacturing Technology (Metal and Welding)
- *Transportation Technology (Automotive)

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

Hospitality and Tourism

TFJ20

This course emphasizes the scope of the hospitality and tourism industry. Students will study food origins, food-handling techniques and food preparation, health and safety standards, and the use of specialized tools and equipment. They will also investigate travel and tourism activities in Ontario, develop effective communication and management skills, and identify career opportunities in the hospitality and tourism industry.

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

Hospitality and Tourism

TFJ3C

This course enables students to develop or expand knowledge and skills related to hospitality and tourism, as reflected in the various sectors of the tourism industry. Students will learn about preparing and presenting food, evaluating facilities, controlling inventory, and marketing and managing events and activities, and will investigate customer service principles and the cultural and economic forces that drive tourism trends. Students will develop an awareness of health and safety standards, environmental and societal issues, and career opportunities in the tourism industry.

CREDIT: 1

TYPE: College

GRADE: 11

Hospitality and Tourism

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

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.

CREDIT: 1

TYPE: Workplace

GRADE: 12

PREREQUISITE: TFJ3E - Hospitality and Tourism or TFJ3C - Hospitality and Tourism

Manufacturing Technology

Exploring Technologies

TIJ10

Students will explore and develop technological skills from one of the five areas of emphasis:

- *Communications Technology (Photography and Video)
- *Construction Technology (Woodworking)
- *Hospitality and Tourism (Food Service Industry)
- *Manufacturing Technology (Metal and Welding)
- *Transportation Technology (Automotive)

CREDIT: 1

TYPE: Open

GRADE: 9

Manufacturing Technology

TMJ20

This course introduces students to the scope of the manufacturing industry, the various components used in the design of products, the industrial tools and equipment used, and methods of manufacturing, including assembly-line production. Students will learn about technical drawing; preparation processes; manufacturing techniques; power, electronic, and quality control systems; careers in the manufacturing field; and the role of entrepreneurs in Canadian society. These objectives will be reached through particle high quality projects using arc, Mig and gas welding equipment as well as mills, lathes and C.N.C. machines.

CREDIT: 1

TYPE: Open

GRADE: 10

Manufacturing Technology

TMJ3C

This course enables students to develop knowledge and skills through hands-on, project-based learning. Students will acquire design, fabrication, and problem-solving skills while using tools and equipment such as lathes, mills, welders, computer-aided machines, robots, and control systems. Students may have opportunities to obtain industry-standard certification and training. Students will develop an awareness of environmental and societal issues related to manufacturing and will learn about pathways leading to careers in the industry.

CREDIT: 1

TYPE: College

GRADE: 11

Manufacturing Technology

TMJ4C

This course enables students to further develop knowledge and skills related to machining, welding, print reading, computer numerical control (CNC), robotics, and design. Students will develop proficiency in using mechanical, pneumatic, electronic, and computer control systems in a project-based learning environment and may have opportunities to obtain industry-standard training and certification. Students will expand their awareness of environmental and societal issues and career opportunities in the manufacturing industry.

CREDIT: 1

TYPE: College

GRADE: 12

PREREQUISITE: TMJ3C - Manufacturing Technology

Technological Design

Technological Design

TDJ20

This course requires students to design and develop innovative products and services. Students will learn the following: how to identify user needs related to specified design problems; the physical properties of selected materials and their application in product design; techniques to create physical products and services; various presentation techniques; how to test and evaluate design solutions; and the implications of technology on the development of products or services. They will also become aware of design-related careers.

CREDIT: 1

TYPE: Open

GRADE: 10

Transportation Technology

Exploring Technologies

TIJ10

Students will explore and develop technological skills from one of the five areas of emphasis:

- *Communications Technology (Photography and Video)
- *Construction Technology (Woodworking)
- *Hospitality and Tourism (Food Service Industry)
- *Manufacturing Technology (Metal and Welding)
- *Transportation Technology (Automotive)

CREDIT: 1

TYPE: Open

GRADE: 9

Transportation Technology

TTJ20

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

CREDIT: 1

TYPE: Open

GRADE: 10

Transportation Technology

TTJ3C

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

CREDIT: 1

TYPE: College

GRADE: 11

Transportation Technology: Auto Service

TTA4C

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

CREDIT: 1

TYPE: College

GRADE: 12

Transportation Technology

TTJ4C

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

CREDIT: 1

TYPE: College

GRADE: 12

PREREQUISITE: TTJ3C - Transportation Technology

Transportation Technology

TTJ4C2

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

CREDIT: 2

TYPE: College

GRADE: 12

PREREQUISITE: TTJ3C - Transportation Technology