



SIMCOE COMPOSITE SCHOOL

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**Simcoe Composite School
Program of Studies
2017 - 2018**

Simcoe Composite School

Course Descriptions

ARTS

Dramatic Arts

Drama

ADA10

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

CREDIT: 1

TYPE: Open

GRADE: 9

Drama

ADA20

This course provides opportunities for students to explore dramatic forms, conventions, and techniques. Students will explore a variety of dramatic sources from various cultures and representing a range of genres. Students will use the elements of drama in creating and communicating through dramatic works. Students will assume responsibility for decisions made in the creative and collaborative processes and will reflect on their experiences.

CREDIT: 1

TYPE: Open

GRADE: 10

Drama

ADA3M

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

CREDIT: 1

TYPE: University/College

GRADE: 11

PREREQUISITE: ADA10 or ADA20

Drama

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

Instrumental Music

Instrumental Music-Band

AMI10

This course is for students who have not played a band instrument or wish to switch band instruments from the one played in Grade 8. No previous experience is required in music. The course covers the fundamentals of playing technique, tone and music reading skills. Basic theory and musical terms are also introduced.

CREDIT: 1

TYPE: Open

GRADE: 9

Instrumental Music-Band - Advanced

AMU10

This course emphasizes the creation and performance of instrumental music at a level consistent with previous experience and is aimed at developing technique, sensitivity, and imagination. Students will develop musical literacy skills by using the creative and critical analysis processes in composition, performance, and a range of reflective and analytical activities. Students will develop an understanding of the conventions and elements of music and of safe practices related to music, and will develop a variety of skills transferable to other areas of their life.

CREDIT: 1

TYPE: Open

GRADE: 9

Instrumental Music-Band

AMI20

This course emphasizes the creation and performance of instrumental 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

Guitar Music

AMG30

This course introduces students to the acoustic guitar through a folk based approach. Basic chords, playing styles and reading skills are covered. The basics of the blues are covered, and appropriate theory is introduced. No musical experience is required. Students are responsible for providing a suitable acoustic guitar for the course.

CREDIT: 1

TYPE: Open

GRADE: 11

Instrumental Music-Band

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: AMI10 or AMU10 or AMI20

Instrumental Music-Band

AMU4M

This course emphasizes the appreciation, analysis, and performance of music from the romantic period and the twentieth century, including art music, jazz, popular music, and Canadian and non-Western music. Students will concentrate on developing interpretive skills and the ability to work independently. They will also complete complex creative projects.

CREDIT: 1

TYPE: University/College

GRADE: 12

PREREQUISITE: AMU3M

Visual Arts

****COURSE NOTE: In courses where students are completing an extended project, a cost may be incurred by the student for materials.**

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

First Nations, Metis and Inuit Studies Expressing Aboriginal Cultures

NAC10

This course will explore a variety of contemporary and traditional First Nations, Métis, and Inuit art forms such as new media, storytelling, installation and performance art. Students will examine the interrelationships between Aboriginal art forms and individual and cultural identities and values. They will create art works to express their own ideas and understanding of Aboriginal identity, relationships, and sovereignty by using a range of media, processes, techniques, and styles. NAC10 can count as a compulsory Art credit. NAC10 will be offered in **2017-18** then in alternating years.

CREDIT: 1

TYPE: Open

GRADE: 9

Visual Arts

AVI20**

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.

CREDIT: 1

TYPE: Open

GRADE: 10

Visual Arts - Crafts

AWA20**

This course emphasizes a practical approach to craft making. Students will produce a variety of projects in media such as paper mache, clay and stained glass. A study of craft making around the world is included in this course. Students will refine their application of the elements and principles of design as well as relate theoretical knowledge to their own craft production.

CREDIT: 1

TYPE: Open

GRADE: 10

Visual Arts

AVI3M**

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

CREDIT: 1

TYPE: University/College

GRADE: 11

PREREQUISITE: AVI10 or AVI20

Visual Arts

AVI30**

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

CREDIT: 1

TYPE: Open

GRADE: 11

Visual Arts-Drawing and Painting

AWM30**

This course focuses on the creation of a portfolio of personal artworks in drawing and/or painting. Emphasis is placed on independent problem solving and technique development. A study of contemporary artworks, artists and art issues will be undertaken. Students should have a solid background in visual art at the grade 11 level, to be able to participate fully in the course. AWM30 will be offered in **2018-19** then in alternating years.

CREDIT: 1

TYPE: Open

GRADE: 11

PREREQUISITE: AVI3M or AVI30

Visual Arts-Sculpture

AWP30**

This course focuses on the creation of a portfolio of personal artworks in a variety of sculpture media. Emphasis is placed on independent problem solving and technique development. A study of contemporary art works, artists and art issues will be undertaken. Students should have a solid background in visual art at the grade 11 level to participate fully in this course. AWP30 will be offered in **2018-19** then in alternating years.

CREDIT: 1

TYPE: Open

GRADE: 11

PREREQUISITE: AVI3M or AVI30

Visual Arts-Photography

AWQ30**

This is a photography course that adapts the concepts and skills of the Visual Arts grade 11 course (AVI30). Students will explore a wide range of subjects through traditional black and white as well as digital photography and related processing techniques. They will also examine historical contexts of Western art and other world cultures to support related theory and studio components.

CREDIT: 1

TYPE: Open

GRADE: 11

PREREQUISITE: AVI10 or AVI20 or BTT10 or BTT20 or TGJ20

Visual Arts

AVI4M**

This course focuses on the refinement of students' skills and knowledge in visual arts. Students will analyze art forms; use theories of art in analysing and producing art; and increase their understanding of stylistic changes in modern and contemporary Western art, Canadian (including Native Canadian) art, and art forms from various parts of the world. Students will produce a body of work demonstrating a personal approach.

CREDIT: 1

TYPE: University/College

GRADE: 12

PREREQUISITE: AVI3M

Visual Arts - Photography

AWQ4M**

This course further builds on established technological and design skills and introduces a number of advanced approaches and techniques. The emphasis is on the development of personal strategies and the development of a professional portfolio. A study of Modern and Contemporary photography will help to ground and inspire student work. A digital component will also be included in the course. This course fully prepares students for post-secondary study in the creative arts or use of photographic and artistic skills in various careers. This course is recommended for motivated students requiring an academic photography credit. A variety of advanced independent digital and darkroom projects will refine skills learned in grade 11.

CREDIT: 1

TYPE: University/College

GRADE: 12

PREREQUISITE: AWQ3O

Visual Arts – Digital Media

AWS4O**

This course focuses on a practical approach to a variety of art and design projects related to the workplace. Students will use the creative process to produce a traditional and/or **digital portfolio** of their work in a variety of media. Students may focus on various aspects of visual arts, including advertising, ceramics, fashion design, graphic arts, jewellery design, and/or web design.

CREDIT: 1

TYPE: Workplace

GRADE: 12

PREREQUISITE: AVI3O

Visual Arts-Yearbook

AWT4O

This course introduces the theory and practice of journalism including financing, writing, design, and photography. The primary purpose of this course is to produce a quality yearbook employing the current standards of high school journalism and the elements of good yearbook design. It is also to cover the entire school population and report on as many as possible the events of one calendar school year. Students enrolled in the course are expected to be self-motivated, reliable and able to work as a team to complete their objectives. Students wishing to enter this course will be interviewed by the teacher to determine their suitability.

CREDIT: 1

TYPE: Open

GRADE: 12

****COURSE NOTE:** *In courses where students are completing an extended project, a cost may be incurred by the student for materials.*

BUSINESS AND COMPUTER 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

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

Information and Communication Technology: The Digital Environment

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

Accounting Essentials

BAI3E

This course introduces students to the accounting cycle of a service business. Students will use computer applications software to record business transactions and to prepare financial statements. Students will also investigate banking and cash management, decision making, ethical behaviour, and career opportunities in the field of accounting.

CREDIT: 1 **TYPE:** Workplace **GRADE:** 11

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.

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

Entrepreneurship: The Venture

BDI3C

This course focuses on ways in which entrepreneurs recognize opportunities, generate ideas, and organize resources to plan successful ventures that enable them to achieve their goals. Students will create a venture plan for a school-based or student-run business. Through hands-on experiences, students will have opportunities to develop the values, traits, and skills most often associated with successful entrepreneurs. BDI3C will be offered in **2018-19** then in alternating years.

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

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. BMI3C will be offered in **2017-18** then in alternating years.

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

Introduction to Computer Programming

ICS3C

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

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

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

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

International Business Fundamentals

BBB4M

This course provides an overview of the importance of international business and trade in the global economy and explores the factors that influence success in international markets. Students will learn about the techniques and strategies associated with marketing, distribution, and managing international business effectively. This course prepares students for postsecondary programs in business, including international business, marketing, and management.

CREDIT: 1

TYPE: University/College

GRADE: 12

PREREQUISITE: Any university, university/college, or college preparation course in business studies or Canadian and world studies.

Business Leadership: Management Fundamentals

BOH4M

This course focuses on the development of leadership skills used in managing a successful business. Students will analyse the role of a leader in business, with a focus on decision making, management of group dynamics, workplace stress and conflict, motivation of employees, and planning. Effective business communication skills, ethics, and social responsibility are also emphasized.

CREDIT: 1

TYPE: University/College

GRADE: 12

PREREQUISITE: Any university, university/college, or college preparation course in business studies or Canadian and world studies.

Computer Programming

ICS4C

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

CREDIT: 1

TYPE: College

GRADE: 12

PREREQUISITE: ICS3C

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

CANADIAN AND WORLD STUDIES

Issues in Canadian Geography

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

Issues in Canadian Geography

CGC1P

This course focuses on geographic issues that affect Canadians today. Students will draw on personal and everyday experiences as they 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 since World War I

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 I

CHC2P

This course explores some of the pivotal 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

American History

CHA3U

This course traces the social, economic, and political development of the United States from colonial times to the present. Students will examine issues of diversity, identity, and culture that have influenced the country's social and political formation and will consider the implications of its expansion into a global superpower. Students will use critical-thinking and communication skills to determine causal relationships, evaluate multiple perspectives, and present their own points of view.

CREDIT: 1

TYPE: University

GRADE: 11

PREREQUISITE: CHC2D or CHC2P

World History to the End of the Fifteenth 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 to present their own conclusions.

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

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

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 explores the challenges associated with the formation of a Canadian national identity. Students will examine the social, political, and economic forces that have shaped Canada from the pre-contact period to the present and will investigate the historical roots of contemporary issues from a variety of perspectives. Students will use critical-thinking and communication skills to consider events and ideas in historical context, debate issues of culture and identity, and present their own views. CHI4U will be offered in **2017-18** then in alternating years.

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.

World History since the Fifteenth Century

CHY4U

This course investigates the major trends in Western civilization and world history from the sixteenth century to the present. Students will learn about the interaction between the emerging West and other regions of the world and about the development of modern social, political, and economic systems. They will use critical-thinking and communication skills to investigate the historical roots of contemporary issues and present their conclusions.

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 their understanding of the principles of Canadian and international law when exploring rights and freedoms within the context of topics such as religion, security, cyberspace, immigration, crimes against humanity, and environmental protection. Students will apply the concepts of legal thinking and the legal inquiry process when investigating these issues in both Canadian and international contexts, and they will develop legal reasoning skills and an understanding of conflict resolution in the area of international law.

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 World Politics

CPW4U

This course examines Canadian and world politics from a variety of perspectives. Students will investigate the ways in which individuals, groups, and states work to influence domestic and world events, the role of political ideologies in national and international politics, and the dynamics of international cooperation and conflict resolution. Students will apply critical-thinking and communication skills to develop and support informed opinions about current political conflicts, events, and 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.

CAREER EDUCATION AND CIVICS

Civics and Citizenship

CHV20

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

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

COOPERATIVE EDUCATION

2 Credit Co-op

FTEX2C

The 2 credit cooperative education course is available to grade 11 and grade 12 students. This course is a planned learning experience that integrates classroom theory (minimum 30 hours) with learning experiences at a workplace (minimum 190 hours) to enable students to apply and refine the knowledge and skills acquired in a related curriculum course. Students selecting co-op will have an interview with a co-op teacher to discuss possible placements and credits.

CREDITS: 2

TYPE: Open

GRADE: 11-12

4 Credit Co-op

FTEX4C

The 4 credit cooperative education course is available to grade 11 and grade 12 students, only with the permission of the co-op teachers.

CREDITS: 4

TYPE: Open

GRADE: 11-12

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. This course is intended to prepare students for the grade 10 academic English course which leads to university courses in grades 11 & 12.

CREDIT: 1

TYPE: Academic

GRADE: 9

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 - Essentials

ENG1L

This course provides foundational literacy and communication skills to prepare students for success in their daily lives and in the workplace. 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. This course is intended to prepare students for the grade 10 essentials English course which leads to workplace courses in grades 11 & 12.

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 or ENG1P

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 or ENG1P

English - Essentials

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. This course is intended to prepare students for the workplace English courses in grades 11 & 12.

CREDIT: 1

TYPE: Locally Developed

GRADE: 10

PREREQUISITE: ENG1L or ENG1P

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

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

Presentation and Speaking Skills

EPS3O

This course emphasizes the knowledge and skills required to plan and make effective presentations and to speak effectively in both formal and informal contexts, using such forms as reports, speeches, debates, panel discussions, storytelling, recitations, interviews, and multimedia presentations. Students will research and analyse the content and characteristics of convincing speeches and the techniques of effective speakers; design and rehearse presentations for a variety of purposes and audiences; select and use visual and technological aids to enhance their message; and assess the effectiveness of their own and others' presentations.

CREDIT: 1

TYPE: Open

GRADE: 11

PREREQUISITE: ENG2D or ENG2P

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

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 or ENG3U

English

ENG4E

This course emphasizes consolidation of literacy, critical thinking, and communication skills. Students will study informational texts and literature from various countries and cultures; write summaries, reports, resumes, and short essays; complete an independent research project; and explain the connections among media forms, audiences, and media industry practices. An important focus will be on using language accurately and organizing ideas and information coherently. This course is intended to prepare students for the workplace and active citizenship.

CREDIT: 1

TYPE: Workplace

GRADE: 12

PREREQUISITE: ENG3E or ENG3C or OLC30

The Writer's Craft

EWC4U

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

CREDIT: 1

TYPE: University

GRADE: 12

PREREQUISITE: ENG3U

The Writer's Craft

EWC4C

This course emphasizes knowledge and skills related to the craft of writing. Students will investigate models of effective writing; use a workshop approach to write a variety of works; and make considered decisions for improving the quality of their writing. They will also complete a creative or analytical independent study project, and investigate opportunities for publication and for writing careers.

CREDIT: 1

TYPE: College

GRADE: 12

PREREQUISITE: ENG3C

FRENCH as a SECOND 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.

CREDIT: 1

TYPE: Academic

GRADE: 9

PREREQUISITE: Minimum of 600 hours of elementary Core French instruction, or equivalent.

Core French

FSF1P

This course provides opportunities for students to communicate and interact in French in structured situations, with a focus on everyday topics, and to apply their knowledge of French in everyday situations. Students will develop listening, speaking, reading, and writing skills introduced in the elementary Core French program, through practical applications and concrete examples, and will use 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.

CREDIT: 1

TYPE: Applied

GRADE: 9

PREREQUISITE: Minimum of 600 hours of elementary Core French instruction, or equivalent.

Core French

FSF2D

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

CREDIT: 1

TYPE: Academic

GRADE: 10

PREREQUISITE: FSF1D or FSF1P

Core French

FSF3U

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

CREDIT: 1

TYPE: University

GRADE: 11

PREREQUISITE: FSF2D

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.

CREDIT: 1

TYPE: University

GRADE: 12

PREREQUISITE: FSF3U

MATHEMATICS

Mathematics - Essentials

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

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 – MFM2P.

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. Learning through abstract reasoning is an important aspect of this course. Successful completion of this course prepares students for Principles of Mathematics – MPM2D or Foundations of Mathematics – MFM2P.

CREDIT: 1

TYPE: Academic

GRADE: 9

Mathematics - Essentials

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 or MFM1P

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: MAT1P or MFM1D

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 or MFM1P PLUS Math Transfer course.

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: MPM1D or MFM1P or MAT2L

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 or MPM2D

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 MFM2P

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 or MCF3M

Mathematics for Work and Everyday Life

MEL4E

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

CREDIT: 1

TYPE: Workplace

GRADE: 12

PREREQUISITE: MEL3E or MBF3C

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 or MCF3M or MCR3U

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.

CREDIT: 1

TYPE: College

GRADE: 12

PREREQUISITE: MCR3U or MCF3M

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 or MCF3M

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 or MCT4C

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 / COREQUISITES: MHF4U must be taken prior to or concurrently with Calculus and Vectors.

PHYSICAL AND HEALTH EDUCATION

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.

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.

CREDIT: 1

TYPE: Open

GRADE: 9

SCS Basketball Course

PAL10

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. The emphasis of this course is on basketball skill development. Areas of focus include strategies and tactics, coaching styles, historical evolution of the game, training concepts, and safety issues inherent to the sport.

CREDIT: 1

TYPE: Open

GRADE: 9

Healthy Active Living Education - Male

PPL20B

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 - Female

PPL20G

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

SCS Hockey Course

PAL20

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. The emphasis of this course is on hockey skill development. Areas of focus include strategies and tactics, coaching styles, historical evolution of the game, training concepts, and safety issues inherent to the sport. There are approximately 45 on-ice sessions, as well as various fitness classes.

***Course Fee - \$50.00 and hockey equipment required.

CREDIT: 1

TYPE: Open

GRADE: 10

Personal and Fitness Activities - Male

PAF30B

This course focuses on the development of a healthy lifestyle and participation in a variety of enjoyable physical activities that have the potential to engage students' interest throughout their lives. Students will be encouraged to develop personal competence in a variety of movement skills, and will be given opportunities to practice goal-setting, decision-making, coping, social, and interpersonal skills. Students will also study the components of healthy relationships, reproductive health, and personal safety. Improved physical fitness through aerobic and weight training is the main objective of this course.

***COURSE NOTE: Course Fee: \$60 fee for the Fitness Centre Fees.

CREDIT: 1

TYPE: Open

GRADE: 11

Personal and Fitness Activities - Female

PAF30G

This course focuses on the development of a healthy lifestyle and participation in a variety of enjoyable physical activities that have the potential to engage students' interest throughout their lives. Students will be encouraged to develop personal competence in a variety of movement skills, and will be given opportunities to practice goal-setting, decision-making, coping, social, and interpersonal skills. Students will also study the components of healthy relationships, reproductive health, and personal safety.

Improved physical fitness through aerobic and weight training is the main objective of this course.

***COURSE NOTE: Course Fee: \$60 fee for the Fitness Centre Fees.

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

Personal and Fitness Activities - Male

PAF40B

This course focuses on the development of a healthy lifestyle with an emphasis on physical fitness. Students will develop individual fitness plans to improve or to maintain a high level of fitness. Regular work-outs will include an emphasis on weight training and cardiovascular training. This course will also focus on designing training programs for specific sport development - preseason, season and post-season training. In addition, students will be given opportunities to refine their decision-making, conflict resolution, and interpersonal skills, with a view of enhancing their mental health and their relationships with others. *** COURSE NOTE: Course Fee: \$60 fee for the Fitness Centre Fees.

CREDIT: 1

TYPE: Open

GRADE: 12

Personal and Fitness Activities - Female

PAF40G

This course focuses on the development of a healthy lifestyle with an emphasis on physical fitness. Students will develop individual fitness plans to improve or to maintain a high level of fitness. Regular work-outs will include an emphasis on weight training and cardiovascular training. This course will also focus on designing training programs for specific sport development - preseason, season and post-season training. In addition, students will be given opportunities to refine their decision-making, conflict resolution, and interpersonal skills, with a view of enhancing their mental health and their relationships with others. *** COURSE NOTE: Course Fee: \$60 fee for the Fitness Centre Fees.

CREDIT: 1

TYPE: Open

GRADE: 12

Healthy Active Living Education

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

Recreation and Healthy Active Living Leadership

PLF4M

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

CREDIT: 1

TYPE: University/College

GRADE: 12

PREREQUISITE: Any Health and Physical Education course.

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 open course in Health and Physical Education.

SCIENCE

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

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 - Essentials

SNC2L

This course is available for students looking to earn a science credit in year one or two.

The course covers a range of topics including chemistry, biology, astronomy, electricity and environmental science. The goal of this course is to prepare students for application of science in the workplace and society. Emphasis is placed on practical skills and applications. This course leads to a second credit in SNC4E in year three or four.

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: SNC1D or SNC1P

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: SNC1D or SNC1P

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

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

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

SNC4E

This course is available for students in year three or four with one earned science credit at the locally developed or applied level.

The course covers consumer chemistry, disease prevention, nutritional science and earth sciences. Emphasis is placed on practical skills and applications.

CREDIT: 1

TYPE: Workplace

GRADE: 12

PREREQUISITE: One of SNC1P or SNC2L or SNC2P

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

Recommend: 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 or SNC2P

Recommend: MBF3C

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

Recommend: MCF3M or MCR3U

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

Recommend: MCF3M or MCR3U

Health Science

SNC4M and IDP4U

This course combines the expectations for Interdisciplinary Studies, Grade 12, University Preparation (IDP4U), with expectations from Science, Grade 12 - University/College Preparation (SNC4M). The program provides students with multiple opportunities to investigate careers in a health care setting by exposing them to the structure and organization of Canada's Health Care system including an analysis of the challenges and issues affecting health care delivery, studying the human body systems in a normal and diseased state, exploring medical technologies available, and examining the role of ethics and confidentiality in health care. Students will collaboratively investigate 8 case studies delivered by health care practitioners at Norfolk General Hospital and in the community. They will prepare both written and oral presentations. Each student will also have the opportunity to spend an evening at Norfolk General Hospital's Emergency department and a morning in the operating room. Individually, students will perform an in-depth investigation of a health care profession of their choice by arranging to spend one day with a health care provider and prepare verbal and written presentations. Students will collaborate to prepare a summative round-table report to Norfolk General Staff at the conclusion of the course.

COURSE NOTE: Students will earn two credits (SNC4M and IDP4U).

CREDITS: 2

TYPE: University/College

GRADE: 12

PREREQUISITE: Any Grade 11 University, University/College, or College Preparation course in Science.

SOCIAL SCIENCE AND THE 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. This survey course is an excellent introduction to the range of courses offered at the senior level of Family Studies. Units centered on Food and Nutrition, Clothing, Parenting and the Social Sciences provide students with the unique opportunity to explore all areas of the Family Studies curriculum.

CREDIT: 1

TYPE: Open

GRADE: 9

Food and Nutrition

HFN20

This course focuses on guidelines for making nutritious food choices. Students will investigate factors that influence food choices, including beliefs, attitudes, current trends, traditional eating patterns, food marketing strategies, and individual needs. Students will also explore the environmental impact of a variety of food choices at the local and global level. The course provides students with opportunities to develop food preparation skills and introduces them to the use of social science research methods in the area of food and nutrition.

CREDIT: 1

TYPE: Open

GRADE: 10

Food and Culture

HFC3M

This course focuses on the flavours, aromas, cooking techniques, foods, and cultural traditions of world cuisines. Students will explore the origins of and developments in diverse food traditions. They will demonstrate the ability to cook with ingredients and equipment from a variety of cultures, compare food-related etiquette in many countries and cultures, and explain how Canadian food choices and traditions have been influenced by other cultures. Students will develop practical skills and apply social science research methods while investigating foods and food practices from around the world.

CREDIT: 1

TYPE: University/College

GRADE: 11

Understanding Fashion

HNC3C

This course introduces students to the world of fashion. Students will gain an understanding of theories related to fashion trends and of how culture, media, fashion cycles, retailing, and social and environmental factors influence fashion trends and consumer behaviour. Students will use various tools, technologies, and techniques safely and correctly to create fashion items. In addition, students will apply knowledge of fibres, fabrics, and the elements and principles of design when creating and assessing fashion-related products. Students will develop research skills as they investigate topics related to fashion. HNC3C will be offered in **2018-19** then in alternating years.

CREDIT: 1

TYPE: College

GRADE: 11

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

World Religions and Belief Traditions in Daily Life

HRF30

This course introduces students to the range and diversity of world religions, and examines how systems of belief affect individual lives and social relationships. Students will learn about a variety of religious beliefs, teachings, traditions, and practices. The course also helps students to develop skills used in researching and investigating topics related to world religions.

CREDIT: 1

TYPE: Open

GRADE: 11

Gender Studies

HSG3M

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

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

Nutrition and Health

HFA4C

This course focuses on the relationship between nutrition and health at different stages of life and on global issues related to food production. Students will investigate the role of nutrition in health and disease and assess strategies for promoting food security and environmental responsibility. Students will learn about healthy eating, expand their repertoire of food-preparation techniques, and refine their ability to use social science research and inquiry methods to investigate topics related to nutrition and health.

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.

The World of Fashion

HNB4M

This course gives students the opportunity to explore the world of fashion. Students will learn how to create a fashion product using various tools, techniques and technologies while developing their practical skills. Students will learn about various factors that affect the global fashion industry, the needs of specialized markets, and the impact of fibre and fabric production and care. In addition, they will learn about social and historical influences on fashion. Students will apply research skills when investigating aspects of the fashion world. HNB4M will be offered in **2017-18** then in alternating years.

CREDIT: 1

TYPE: University/College

GRADE: 12

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

Challenge and Change in Society

HSB4U

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

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.

World Cultures

HSC4M

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

CREDIT: 1

TYPE: University/College

GRADE: 12

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, and 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 Social Sciences and Humanities, English, or Canadian and World Studies.

TECHNOLOGICAL EDUCATION

**** COURSE NOTE: In some courses there may be additional costs to the student for upgrades or additional materials.**

Exploring Technologies

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

Communications Technology

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, 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

PREREQUISITE: None

RECOMMEND: TGJ20

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: TV, Video and Movie Production

TGV4M**

This course enables students to develop media knowledge and skills in the areas of sound and video. Students will work as part of a production team to produce media presentations in a project-driven environment. Practical projects will include digital images, animation, video, and sound. Students will also expand their awareness of environmental and societal issues to communications technology and explore postsecondary education, training, and career opportunities.

CREDIT: 1

TYPE: University/College

GRADE: 12

PREREQUISITE: TGJ3M

RECOMMEND: TGJ4M

Construction Technology

Construction Technology

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

Custom Woodworking

TWJ3E**

This course enables students to develop knowledge and skills related to cabinet and furniture making. Students will gain practical experience using a variety of materials, tools equipment, and joinery techniques. 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 explore post-secondary opportunities in this field of study.

CREDIT: 1

TYPE: Workplace

GRADE: 11

Carpentry

TCC4E**

This course enables students to further develop knowledge and skills related to the planning, design and construction of cabinets and furniture for residential and/or commercial projects. 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: TCJ3C or TWJ3E

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

Technological Design

TDJ3M**

This course examines how technological design is influenced by human, environmental, financial, and material requirements and resources. 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

Architectural Design

TDA4M**

This course provides students with opportunities to expand and improve their AutoCAD skills in both mechanical and architectural areas. Advanced AutoCAD software such as Revit will be used in this class to solve problems in design through the use of technical drawings, and model building. Students will research design and test solutions for residential or commercial architecture, industrial engineering, and manufacturing. They will also examine the educational requirement of a technical design related career in engineering, architecture or industrial design.

CREDIT: 1

TYPE: University/College

GRADE: 12

PREREQUISITE: TDJ3M

RECOMMEND: TGD4M

Technological Design

TDJ4M**

This course introduces students to the fundamentals of design advocacy and marketing, while building on their design skills and their knowledge of professional design practices. 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

Green Industries

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 postsecondary education programs and career opportunities.

CREDIT: 1

TYPE: University/College

GRADE: 11

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 or THJ3E

Hairstyling and Aesthetics

Hairstyling and Aesthetics

TXJ20**

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

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

Hairstyling and Aesthetics

TXJ3E**

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

CREDIT: 1

TYPE: Workplace

GRADE: 11

Advanced Aesthetics

TXA4E**

This course continues with advanced procedures in the aesthetics unit including spa manicures, relaxation massage, and reflexology. Emphasis also on theatre and special effects makeup.

CREDIT: 1

TYPE: Workplace

GRADE: 12

PREREQUISITE: TXJ3E

Hairstyling and Aesthetics

TXJ4E**

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

CREDIT: 1

TYPE: Workplace

GRADE: 12

PREREQUISITE: TXJ3E

Manufacturing Technology

Manufacturing Technology

TMJ20**

This course introduces students to the manufacturing industry by giving them an opportunity to design and fabricate products using a variety of processes, tools, and equipment. Students will learn about technical drawing, properties and preparation of materials, and manufacturing techniques. Student projects may include a robotic challenge, a design challenge, or a fabrication project involving processes such as machining, welding, vacuum forming, or injection moulding. Students will develop an awareness of environmental and societal issues related to manufacturing, and will learn about secondary and postsecondary pathways leading to careers in the industry.

CREDIT: 1

TYPE: Open

GRADE: 10

Welding

TMW3E**

This course will explore the broad range of career opportunities available within the manufacturing sector. Students will have the opportunity to learn the basic techniques of welding using a variety of equipment that is related to the welding industry. Students will gain knowledge in the theory and practical use of Oxy and Acetylene welding, cutting, shielded metal arc welding (SMAW) and gas metal arc welding (GMAW/MIG) Students will acquire design and fabrication skills using a variety of tools and processes, and will construct products that adhere to design specifications and meet quality control standards. In addition to developing employability and technical skills, students will develop an understanding of safety procedures within industry as well as the impact of the manufacturing sector on consumers, society, and the environment.

CREDIT: 1

TYPE: Workplace

GRADE: 11

PREREQUISITE: None

RECOMMEND: TMJ2O

Welding

TMW4E**

This course focuses on advanced welding and fabrication techniques, and provides students with an opportunity to develop specialized knowledge and skills used in production processes. Students will solve problems; make the decisions necessary to develop a product for manufacture; and examine production methods, quality control systems, and environmental and societal impacts. The course includes the practical and theoretical study of GMAW, Oxy-Acetylene welding, brazing, electrodes, plasma arc and oxy-acetylene cutting, NDE (Non Destructive Evaluation), metallurgy and metal identification. Students will explore techniques in sheet metal fabrication and layout, and will expand on their knowledge of welding, fitting and blueprint reading.

CREDIT: 1

TYPE: Workplace

GRADE: 12

PREREQUISITE: TMW3E

Welding Technician

TMY4C**

Students will have the opportunity to explore advanced welding techniques in GMAW welding, Oxy-Fuel welding, plasma arc processes, as well as increase their knowledge of welding symbols and blueprint reading. Students will be preparing for work experience or studies in post-secondary education within the welding field. Students will design, fabricate and weld projects which emphasize techniques covered in previous manufacturing courses.

CREDIT: 1

TYPE: College

GRADE: 12

PREREQUISITE: TMW3E

RECOMMEND: TMW4E

Transportation Technology

Transportation Technology

TTJ2O**

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 post-secondary 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

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.

CREDITS: 2

TYPE: College

GRADE: 12

PREREQUISITE: TTJ3C

Auto Service

TTA4C**

This course provides students with further study of the transportation sector. Students will develop effective communication and teamwork skills while learning to service powertrains, electronic management systems, suspension and steering systems. Students will acquire identification, troubleshooting, repairing, and testing skills that meet industry standards and government regulations. This course will provide a good preparation for an apprenticeship in the motive power trades.

CREDIT: 1

TYPE: College

GRADE: 12

PREREQUISITE: TTJ3C

RECOMMEND: TTJ4C

**** COURSE NOTE: In some courses there may be additional costs to the student for upgrades or additional materials.**