#### **Dramatic Arts**

#### Grade 12 • ADA4M1 • University/College

This course requires students to experiment with forms and conventions in dramatic literature, and to create/adapt and present dramatic works. Students will do research on dramatic forms, conventions, themes, and theories of acting and directing from different historical periods, and apply their knowledge of these in analyzing and interpreting dramatic literature, including Canadian works and works from various cultures in the late twentieth century. Students will also examine the significance of dramatic arts in various cultures.

Prerequisites - ADA2O1 or ADA3M1

#### Music

#### Grade 12 • AMU4M1 • University/College

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.

**Prerequisites - AMU301** 

#### **Music Vocals**

#### Grade 12 • AMV4M1 • University/College

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. The focus of this course is to refine vocal skills and to develop solo techniques.

Prerequisites - AMV3O1

#### **Media Arts**

### Grade 12 • ASM4M1 • University/College

This course emphasizes the development of the knowledge and skills required for the production of interactive media art forms (e.g., interactive art installations, interactive videos, simulations, network art). Students will analyze and evaluate media art works, and will create their own works using a variety of technologies and processes (e.g., computer graphics, photo imaging, digital video production techniques, electro-acoustics). Students will develop and maintain a portfolio of their media art works. Prerequisites - ASM3M1, ASM3O1

### **Visual Arts-Comprehensive**

### Grade 12 • AVI4M1 • University/College

This course focuses on the refinement of students' skills and knowledge in visual arts. Students will analyze art forms; use theories of art in analyzing 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.

**Prerequisites - AVI3M1** 

### Visual Arts - Photography Grade 12 • AWQ4M1 • University/College

This course focuses on the refinement of students' skills and knowledge in visual arts. Students will analyze art forms; use theories of art in analyzing 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. The focus will be on digital photography.

Prerequisite: Photography AWQ 301, AWQ3M1

Visual Arts - Crafts
Grade 12 • AWA4O1 • Open

**Prerequisite: AWA40** 

## Financial Accounting Principles Grade 12 • BAT4M1 • University/College

This course emphasizes study of accounting principles related to financial statements. Students will learn about ways in which information in these statements is used in making business decisions, and about the effects on financial statements of using different methods of inventory valuation and adjusting and reversing entries. Students will also study various means of financing a business and ways in which the strength of a corporation can be determined through the reading of its annual report.

**Prerequisites - BAF3M1** 

## Entrepreneurship: Venture Planning Grade 12 • BDV4C1 • College

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

#### **International Business**

### Grade 12 • BBB4M • University/College

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.

Prerequisites - BAF3M, BMI3C, CHW3M, CLU3M, ENG3C, ENG3U

### Business Leadership Grade 12 • BOH4M1 • University/College

This course focuses on ways in which organizations deal with issues affecting their competitiveness in a changing technological and global business environment. Students will analyze various leadership techniques and study various issues such as ethics in business, social responsibility, management of group dynamics, uses of information technology, workplace stress and conflict, motivation of employees, and globalization. Students will also investigate the management of a diverse workforce within an organization and the importance of strategic planning.

Prerequisites - ENG3C1 or ENG3U1 or NBE3U1

## Analysing Current Economic Issues Grade 12 • CIA4U1 • University

This course examines current national and global economic trends and policies from diverse perspectives. Students will explore the impact of choices that individuals and institutions, including governments, make in responding to local, national, and global economic issues such as globalization and global economic inequalities, trade agreements, national debt, taxation, social spending, and consumer debt. Students will apply the concepts of economic thinking and the economic inquiry process, including economic models, to investigate, and develop informed opinions about, current economic issues and to help them make reasoned economic decisions. Prerequisite: Any university or university/college preparation course in Canadian and world studies, English, or social sciences and humanities

Prerequisites - CHW3M1 or CLU3M1 or ENG3U1 or HRT3M1 or HRT3MF or NBE3U1

## World History since the Fifteenth Century Grade 12 • CHY4U1 • University

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

Prerequisites - CHA3U or CHW3M or CLU3M or CIA4U or CGW4U or CGU4M or CGR4M or CGO4M or CHI4U or CHY4U or CLN4U or CPW4U or ENG3U or ENG4U or HNB4M or HFC3M or HFA4U or HHS4U or HHG4M or HSP3U or HSB4U or HZB3M or HZT4U or HRT3M or HSE4M or HSG3M or HSC4M

### **Legal Studies**

### Grade 12 • CLN4C1 • College

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

### Canadian and International Law Grade 12 • CLN4U1 • University

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

Prerequisites - CHW3M1 or CLU3M1 or ENG3U1 or HRT3M1 or NBE3U1

### Canadian and World Issues Grade 12 • CGW4U • University

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

Prerequisites - CHW3M1, CLU3M1, ENG3U1, ENG4U, HRT3M1, CIE3M, CHA3U, CIA4U, CHY4U, HHS4U, HSB4U, HSE4M

# Introduction to Computer Studies Grade 12 • ICS4C1 • College

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

**Prerequisites - ICS3C1** 

### **Computer Science**

### **Grade 12 • ICS4U1 • University**

This course enables students to further develop knowledge and skills in computer science. Students will use modular design principles to create complex and fully documented programs. Student teams will manage a large software development project, from planning through to project review. Students will also analyze algorithms for effectiveness.

**Prerequisites - ICS3U1** 

### Cooperative Education Grade 12 • NGC4OC • Open

Co-operative Education. This is a 2 credit course.

#### **English**

#### **Grade 12 • ENG4C1 • College**

This course emphasizes the consolidation of literacy, communication, and critical and creative thinking skills necessary for success in academic and daily life Students will analyse a variety of informational and graphic texts, as well as literary texts from various countries and cultures, and create oral, written, and media texts in a variety of forms for practical and academic purposes. An important focus will be on using language with precision and clarity and developing greater control in writing. The course is intended to prepare students for college or the workplace. Students considering moving from one destination to another (e.g., college to university; workplace to college) must successfully complete a transfer course. Students who have successfully completed ENG3U may also select this course.

Prerequisites - ENG3C1 or ENG3U1 or NBE3U1

### **English**

#### **Grade 12 • ENG4E1 • Workplace**

Grade 12 Workplace English. This course emphasizes the consolidation of literacy, communication, and critical and creative thinking skills necessary for success in the workplace and in daily life. Students will analyse informational, graphic, and literary texts and create oral, written, and media texts in a variety of forms for workplace-related and practical purposes. An important focus will be on using language accurately and organizing ideas and information coherently. The course is intended to prepare students for the workplace and active citizenship.

Prerequisites - ENG3E or ESLDO or NBE3E

#### **English**

#### Grade 12 • ENG4U1 • University

This course emphasizes the consolidation of the literacy, communication, and critical and creative thinking skills necessary for success in academic and daily life. Students will analyse a range of challenging literary texts from various periods, countries, and cultures; interpret and evaluate informational and graphic texts; and create oral, written, and media texts in a variety of forms. An important focus will be on using academic language coherently and confidently, selecting the reading strategies best suited to particular texts and particular purposes for reading, and developing greater control in writing. The course is intended to prepare students for university, college, or the workplace. Students considering moving from one destination to another (e.g., college to university; workplace to college) must successfully complete a transfer course.

Prerequisites - ENG3U1 or NBE3U1

## Ontario Literacy Course Grade 12 • OLC4O1 • Open

This course is designed to help students acquire and demonstrate the cross-curricular literacy skills that are evaluated by the Ontario Secondary School Literacy Test (OSSLT). Students who complete the course successfully will meet the provincial literacy requirement for graduation. Students will read a variety of informational, narrative, and graphic texts and will produce a variety of forms of writing, including summaries, information paragraphs, opinion pieces, and news reports. Students will also maintain and manager a portfolio containing a record of their reading experiences and samples of their writing. The Principal has the discretion to allow a student to enrol in the OSSLC before he or she has had a second opportunity to take the OSSLT, if the principal determines that it is in the best educational interests of the student.

# Extended French Grade 12 • FEF4U1 • University

This course further emphasizes the consolidation of communication skills required to interact in French for various purposes about concrete and abstract topics. Students will independently apply language-learning strategies in a variety of real-life and personally relevant contexts, and will broaden their creative and critical thinking skills through responding to and analysing oral and written texts. Students will increase their knowledge of the language through the study of Canadian and international French literature. They will also continue to enrich their understanding and appreciation of diverse French-speaking communities and to develop the skills necessary to become life-long language learners. Prerequisite: Extended French, Grade 11, University Preparation. Prerequisites - FEF3U1

#### **Core French**

#### Grade 12 • FSF4U1 • University

This course provides extensive opportunities for students to speak and interact in French independently. Students will apply language-learning strategies in a wide variety of real-life situations, and will continue to develop their creative and critical thinking skills through responding to and interacting with a variety of oral and written texts. Students will also continue to enrich their understanding and appreciation of diverse French-speaking communities and to develop the skills necessary for life-long language learning. Prerequisite: Core French, Grade 11, University Preparation

**Prerequisites - FSF3U** 

## Advanced Learning Strategies Grade 12 • GLE4O1 • Open

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

### Sport & Entertainment Marketing Grade 12 • IDC4UM • University

### Universities will accept one IDC course for admission purposes.

This course explores the important role that sports and entertainment play in our modern economy. Students will acquire knowledge in the area of ethics, consumer behaviour, consumer research, product development, pricing strategies, advertising, sports media, public relations, publicity, event marketing, endorsement, promotional licensing, sponsorship, product distribution, stadium design, risk management, legal issues and career opportunities in Sports and Entertainment Marketing.

Prerequisite -any grade 11 or 12u or c preparation course in Canadian or Business Studies. Eng3U is strongly recommended.

# Foundations for College Math Grade 12 • MAP4C1 • College

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

Prerequisites - MBF3C1 or MCF3M1 or MCR3U1

### Math for College Technology Grade 12 • MCT4C1 • College

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

Prerequisites - MCF3M1 or MCR3U1

## Mathematics of Data Management Grade 12 • MDM4U1 • University

This course broadens students' understanding of mathematics as it relates to managing data. Students will apply methods for organizing large amounts of information; solve problems involving probability and statistics; and carry out a culminating project that integrates statistical concepts and skills. Students will also refine their use of the mathematical processes necessary for success in senior mathematics. Students planning to enter university programs in business, the social sciences, and the humanities will find this course of particular interest.

Prerequisites - MCF3M1 or MCR3U1

## Advanced Functions Grade 12 • MHF4U1 • University

The Grade 12 university preparation course Advanced Functions satisfies the mathematical prerequisite for some universities in areas that include business, social science, and health science programs. The strands in this course help students deepen their understanding of functions by revisiting the exponential and trigonometric functions introduced in Grade 11 to address related concepts such as radian measure and logarithmic functions and by extending prior knowledge of quadratic functions to explore polynomial and rational functions. The Characteristics of Functions strand addresses some of the general features of functions through the examination of rates of change and methods of combining functions. MCR3U1 is the prerequisite.

Prerequisites - MCR3U1 or MCT4C1

## Calculus and Vectors Grade 12 • MCV4U1 • University

The Grade 12 university preparation course Calculus and Vectors is designed to prepare students for university programs, such as science, engineering, and economics, that include a calculus or linear algebra course in the first year. Calculus is introduced in the Rate of Change strand by extending the numeric and graphical representation of rates of change introduced in the Advanced Functions course to include more abstract algebraic representations. The Derivatives and Their Applications strand provides students with the opportunity to develop the algebraic and problem-solving skills needed to solve problems associated with rates of change. Prior knowledge of geometry and trigonometry is used in the Geometry and Algebra of Vectors strand to develop vector concepts that can be used to solve interesting problems, including those arising from real-world applications.

**Prerequisites - MHF4U1** 

## Personal and Fitness Activities Grade 12 • PAF4OB • Open

This course focuses on the development of a personalized approach to healthy active living for male students through participation in a variety of sports and recreational activities that have the potential to engage students' interest throughout their lives. Students will develop and implement personal physical fitness plans. In addition, they will be given opportunities to refine their decision-making, conflict-resolution, and interpersonal skills, with a view to enhancing their mental health and their relationships with others. (Weight Training for males)

# Personal and Fitness Activities Grade 12 • PAI4OF • Open

Grade 12 Female Fun Fit emphasizes regular participation in a variety of enjoyable physical activities that promote lifelong healthy active living. Student learning will include the application of movement principles to refine skills; participation in a variety of activities that enhance personal competence, fitness, and health. In addition, they will be given opportunities to refine their decision making, conflict-resolution, and interpersonal skills, with a view to enhancing their mental health and their relationships with others.

### Personal and Fitness Activities Grade 12 • PAF4OG • Open

This course helps female students develop a personalized approach to healthy living. Students will examine the factors that affect their own health and the health of individuals as members of the community. They will learn about the components of the Vitality approach to healthy living — an initiative that promotes healthy eating, an active lifestyle and a positive self-image. Throughout this course, female students will develop the skills necessary to take charge of and improve their own health as well as to encourage others to lead healthy lives. The focus of this course is to promote a healthy lifestyle for females through personal fitness planning and activities. (Weight Training for females)

## Healthy Active Living Male Grade 12 • PPL4OM • Open

This course focuses on the development of a personalized approach to healthy active living through participation in a variety of sports and recreational activities that have the potential to engage students' interest throughout their lives. Students will develop and implement personal physical fitness plans. In addition, they will be given opportunities to refine their decision making, conflict-resolution, and interpersonal skills, with a view to enhancing their mental health and their relationships with others.

## Recreation and Healthy Active Living Grade 12 • PLF4M • University/College

This course enables students to explore the benefits of lifelong participation in active recreation and healthy leisure and to develop 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 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.

Prerequisites - PAD3O, PAL2O, PAF3OB, PAF4OG, PPL2O, PPL1OF, PPL1OM, PAF3OG, PPL3OM

#### Kinesiology

### **Grade 12 • PSK4U1 • University**

This course focuses on the study of human movement and of systems, factors, and the 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.

prerequisite:any grade 11 university or university/college preparation course in science, or any grade 11 or 12 course in health and physical education

### **Biology**

#### Grade 12 • SBI4U1 • University

This course provides students with the opportunity for in-depth study of the concepts and processes associated with biological systems. Students will study theory and conduct investigations in the areas of metabolic processes, molecular genetics, homeostasis, evolution, and population dynamics. Emphasis will be placed on achievement of the detailed knowledge and refined skills needed for further study in various branches of the life sciences and related fields.

Prerequisites - SBI3U1

#### Chemistry

#### **Grade 12 • SCH4C1 • College**

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

Prerequisites - SNC2D1 or SNC2P1

### Chemistry

### Grade 12 • SCH4U1 • University

This course enables students to deepen their understanding of chemistry through the study of organic chemistry, energy changes and rates of reaction, chemical systems and equilibrium, electrochemistry, and atomic and molecular structure. Students will further develop problem solving and laboratory skills as they investigate chemical processes, at the same time refining their ability to communicate scientific information. Emphasis will be placed on the importance of chemistry in daily life, and on evaluating the impact of chemical technology on the environment.

### Prerequisites - SCH3U1

#### **Physics**

### Grade 12 • SPH4C1 • College

This course develops students' understanding of the basic concepts of physics. Students will explore these concepts as they relate to mechanical, electrical, fluid (hydraulic and pneumatic), and communications systems, as well as to the operation of commonly used tools and equipment. They will develop scientific-inquiry skills as they verify accepted laws of physics and solve both assigned problems and those emerging from their investigations. Students will also consider the impact of technological applications of physics on society and the environment.

Prerequisites - SNC2D1 or SNC2P1

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#### **Physics**

#### **Grade 12 • SPH4U1 • University**

This course enables students to deepen their understanding of the concepts and theories of physics. Students will explore further the laws of dynamics and energy transformations, and will investigate electrical, gravitational, and magnetic fields; electromagnetic radiation; and the interface between energy and matter. They will further develop inquiry skills, learning, for example, how the interpretation of experimental data can provide indirect evidence to support the development of a scientific model. Students will also consider the impact on society and the environment of technological applications of physics.

**Prerequisites - SPH3U1** 

## Challenge and Change in Society Grade 12 • HSB4U1 • University

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

Prerequisites - ENG3C1 or ENG3U1 or NBE3U1

### Families in Canada Grade 12 • HHS4C • College

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

Prerequisites - ENG3C1, ENG3U1, CIE3M, CHA3U, CHW3M, CLU3M, CIA4U, CGW4U, HHG4M, CHY4U, CLN4U, ENG4C, ENG4U, HHS4U, HSB4U, HRT3M, HSE4M, HSP3C

## Equity, Diversity, and Social Justice Grade 12 • HSE4M1 • University/College

The aim of this course is to assist students in understanding themselves as moral persons living the way of Christ through an examination of the revelation of sacred Scripture, and the experience and teaching of the Catholic Church. This course enables students to develop an understanding of the theoretical, social, and historical underpinnings of various equity and social justice issues, and to analyse strategies for bringing about positive social change, through a Catholic perspective. Through the process of inquiry, students will learn about historical and contemporary equity and social justice issues in Canada and globally. They will also explore power relations and the impact of a variety of factors on equity and social justice through the inquiry process. Students will engage in critical reflection on these issues in light of Scripture, Church teaching, and important thinkers. Students will develop and apply research skills and will design and implement a social action initiative.

Prerequisites - ENG3U1, or HRT3M1 or HRT3MF or NBE3U1

#### Religion

#### **Grade 12 • HRE4M1 • University/College**

This course is directed toward the clear identification of Catholic moral principles and the concrete application of these principles in the lives of students. The course proceeds from foundational beliefs rooted in Sacred Scripture concerning justice and peace to anexploration of the principles that shape Christian life. In the family Life Education strand, students explore a variety of topics related to the themes of person-hood, interpersonal relationships and sexuality. Special attention is given to the interaction between the Church and culture. The modern world is characterized by a multiplicity of values, philosophies and ideologies. In a democratic, pluralistic society, these concepts may creatively reinforce one another or they may compete with and contradict one another. The Christian moral life is a call to follow Jesus Christ, to believe in the redemptive love of God for humankind and to proclaim and incarnate the reign of God as inaugurated by Jesus Christ.

Prerequisites - ENG3U1, ENG3C, HRT3M1, HRT3MF, NBE3U1

#### Religion

#### Grade 12 • HRE4O • Open

This course assists students in their development of the skills and knowledge necessary to live lives of full maturity. Within the Catholic faith tradition, it is believed that this growth towards human maturity is best served when students are able to define themselves authentically in relation to their God, to other people and to their world. In the Family Life Education strand, students explore a variety of topics related to the themes of personhood, interpersonal relationships and sexuality. Students will demonstrate knowledge of the prophetic tradition in Scripture, become familiar with the social teachings of the Catholic Church, explore contemporary notions of spirituality and prayer, and recognize the importance, power and potential of the human person in relation to morality and personal choices concerning future life paths.

Prerequisites - ENG3C1, ENG3U, ENG3E, HRF3O, HRT3M

### **Construction Engineering Tech Grade 12 • TCJ4C1 • College**

This course enables students to further develop knowledge and skills related to residential construction and to explore light commercial construction. Students will gain hands on experience using a variety of materials, processes, tools, and equipment and will learn more about building design and project planning. They will continue to create and interpret construction drawings and will extend their knowledge of construction terminology and of relevant building codes and regulations, as well as health and safety standards and practices. Students will also focus on environmental and societal issues related to construction engineering technology, and explore career opportunities in the field. Prerequisite: Construction Engineering Technology, Grade 11, College Preparation

**Prerequisites - TCJ3C1** 

## Construction Technology Grade 12 • TCJ4EY • Workplace

This course enables students to further develop technical knowledge and skills related to residential construction and to explore light commercial construction. Students will continue to gain hands-on experience using a variety of materials, processes, tools, and equipment; create and interpret construction drawings; and learn more about building design and project planning. They will expand their knowledge of terminology, codes and regulations, and health and safety standards related to residential and light commercial construction. Students will also expand their awareness of environmental and societal issues related to construction technology, and will explore entrepreneurship and career opportunities in the industry that may be pursued directly after graduation. Select this course only if enrolled in the Construction OYAP. Prerequisites – ENG3C, ENG3U, NBE3U

# Computer Engineering Tech Grade 12 • TEJ4M1 • University/College

This course extends students' understanding of computer systems and computer interfacing with external devices. Students will assemble computer systems by installing and configuring appropriate hardware and software, and will learn more about fundamental concepts of electronics, robotics, programming, and networks. Students will examine environmental and societal issues related to the use of computers, and explore postsecondary pathways leading to careers in computer engineering and related fields. Prerequisite: Computer Engineering Technology, Grade 11, University/College Preparation

**Prerequisites - TEJ3M1** 

# Hospitality and Tourism: Culinary Arts Grade 12 • TFR4C1 • College

This course enables students to further develop knowledge and skills related to the various sectors of the food industry. Students will demonstrate advanced food preparation and presentation skills; increase health and wellness knowledge; develop culinary administration and management skills; design and implement a variety of events or activities; and investigate principles and procedures that contribute to high-quality customer service. Students will expand their awareness of health and safety issues, environmental and societal issues, and career opportunities in the culinary industry. Prerequisite: Hospitality and Tourism: Culinary Grade 11, College Preparation

**Prerequisites -TFR3C1** 

### **Exploring Green Industries**

#### Grade 12 • THJ4M1 • University/College

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. Prerequisite: Green Industries, Grade 11, University/College Preparation

**Prerequisites - THJ3M1** 

# Manufacturing Engineering Technology Grade 12 • TMJ4M1 • University/College

This course enables students to further develop knowledge and skills related to design, process planning, control systems, project management, quality assurance, and business operations. Students will use a broad range of tools and equipment, enhance their skills in computer-aided design, and collaborate in managing a project. Students will critically analyse and solve complex problems involved in manufacturing products. Students will expand their awareness of environmental and societal issues and of career opportunities in the manufacturing industry. Prerequisite: Manufacturing Engineering Technology, Grade 11, University/College Preparation

**Prerequisites - TMJ3M1** 

## Transportation Technology Grade 12 • TTJ4C1 • College

This course enables students to further develop technical knowledge and skills as they study, test, service, and repair engine management systems; power trains; steering/control, suspension, brake, and body systems on vehicles, aircraft, and/or watercraft; and/or small engine products. Students will refine communication and teamwork skills through practical tasks, using a variety of tools and equipment. Students will expand their awareness of environmental and societal issues related to transportation and their knowledge of apprenticeship and college programs leading to careers in the transportation industry. Prerequisite: Transportation Technology, College Preparation, Grade 11

**Prerequisites - TTJ3C1**