

Ecole Secondaire Ste. Anne

Catholic Secondary School

Grades 10-12



**2015 - 2016
Course Calendar**

COURSE DESCRIPTIONS AND PREREQUISITES

THE ARTS

DANCE

Dance, Grade 10, Open

ATC200

This course emphasizes the basic movements of one or more world dance forms, and the scientific and safety principals related to dance. Students will create movement vocabulary for dance compositions, express themselves through movement, and investigate the historical and cultural development of dance. They will also learn about creative influences on dancers and choreographers, and the role of criticism in the art of dance. **Prerequisite: None**

Dance, Grade 11, University/College Preparation

ATC3M1

This course emphasizes the development of technical, composition, and presentation skills in one or more world dance forms. Students will acquire and refine dance skills; compose and present increasingly complex dance works; interpret and evaluate a variety of dance presentations; and study the historical development of various dance forms and the function of dance specific cultures. **Prerequisite: Dance, Grade 9 or 10, Open**

Dance, Grade 12, University/College Preparation

ATC4M1

This course emphasizes the development of technical proficiency and the creation and presentation of complex compositions. Students will acquire increasingly difficult technical skills; assume leadership as dancers, choreographers, and production personnel; analyse and evaluate dance performances; and study historical and cultural aspects of dance, especially of dance in Canada. **Prerequisite: Dance, Grade 11, University/College Preparation or Open**

DRAMATIC ARTS

Drama, Grade 10, Open

ADA200

This course requires students to actively explore dramatic forms and techniques, using their own ideas and concerns as well as sources selected from a wide range of authors, genres, and cultures. Student learning will include identifying and using the principles of space, time, voice, and movement in creating, sustaining, and communicating authentic roles within a drama. Students will assume responsibility for decisions made in the creation and presentation of the drama, and will analyse and reflect on the experience. **Prerequisite: None**

Drama 11, University/College Preparation

ADA3M1

This course requires students to create and to present dramatic works. Students will do research on and study such types of contemporary theatre as docudrama and forum theatre. They will interpret and present works in a variety of dramatic forms; create and script original works; analyse and reflect on dramatic works; and develop their communication skills and other skills useful in a variety of careers. **Prerequisite: Dramatic Arts, Grade 9 or 10, Open**

Drama, Grade 12, University/College Preparation**ADA4M1**

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 analysing 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. **Prerequisite: Dramatic Arts, Grade 11, University/College Preparation or Open**

MUSIC**Music, Grade 10, Open****Instrumental AMI200****Keyboarding AMK200****Vocal AMV200****Guitar AMG200**

This course emphasizes performance of music at an intermediate level that strikes a balance between challenge and skill. Student learning will include participating in creative activities and listening perceptively. Students will also be required to develop a thorough understanding of the language of music, including the elements, terminology, and history. **Prerequisite: None (Guitar students must supply their own acoustic guitar). Recommended strongly: AMI100**

Music, Grade 11, University/College Preparation,**Instrumental AMI3M1****Keyboarding AMK3M1****Vocal AMV3M1****Guitar AMG3M1**

This course develops students' artistic knowledge and skills through the performance of music and the preparation of music productions. Students will perform appropriate works, particularly works in contemporary popular styles. Independently and in groups, they will also plan, market, and produce music productions, making use of appropriate technology, and will evaluate the results. **Prerequisite: Music, Grade 9 or 10, Open Recommended strongly: Music, Grade 10**

Music, Grade 12, University/College Preparation,**Instrumental AMI4M1****Keyboarding AMK4M1****Vocal AMV4M1****Guitar AMG4M1**

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. **Prerequisite: Music, Grade 11, University/College Preparation**

VISUAL ARTS

Visual Arts Grade 10, Open

AVI200

This course emphasizes learning through practice; building on what students know; and introducing them to new ideas, materials, and processes for artistic thinking and experimentation. Student learning will include the refined application of the elements and principles of design, incorporating the creative and design processes, and the relationship between form and content. Students will also learn about the connections between works of art and their historical contexts. Course objectives may be achieved either through a comprehensive program or through a program focused on a particular art form (e.g., drawing, painting). **Prerequisite: None**

Visual Arts, Grade 11, University/College Preparation

AVI3M1

This course provides students with opportunities to further develop their skills and knowledge in visual arts. Students will explore a range of subject matter through studio activities, and will consolidate their practical skills. Students will also analyse art works and study aspects of Western art history, as well as art forms from Canada and other parts of the world. **Prerequisite: Visual Arts, Grade 9 (if offered) or 10, Open**

Visual Arts, Grade 12, University/College Preparation

AVI4M1

This course focuses on the refinement of students' skills and knowledge in visual arts. Students will analyse 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. **Prerequisite: Visual Arts, Grade 11, University/College Preparation or Open**

BUSINESS

Information and Communication Technology in Business, Grade 10, Open

BTT200

This course introduces students to information and communication technology in a business environment. Students will develop word processing (Word Perfect), spreadsheet and data base (Quattro Pro), desktop publishing (MS Publisher), presentation software (MS Power Point), and website design skills (MS Explorer). They will also explore future occupations in information technology. 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. **Prerequisite: None**

Introduction to Business, Grade 10 Open

BBI200

This course will introduce students to the business challenges of the twenty-first century in relation to operating a sports franchise. Students will explore basic concepts and functions related to marketing, financing, and entrepreneurship, and the importance of business ethics and social responsibility all through the simulation of establishing and maintaining a sports franchise. **Prerequisite: None**

ACCOUNTING

Financial Accounting Fundamentals, Grade 11, University/College Preparation BAF3M0

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 current issues and ethics in accounting. **Prerequisite: None**

Financial Accounting Principles, Grade 12, University/College Preparation BAT4M1

This course introduces students to advanced accounting principles that will prepare them for postsecondary studies in business. Students will learn about financial statements for various forms of business ownership and how those statements are interpreted in making business decisions. This course further develops accounting methods for assets and introduces accounting for partnerships, corporations, and sources of financing. **Prerequisite: Financial Accounting Fundamentals, Grade 11, University/College Preparation**

ENTREPRENEURIAL STUDIES

Entrepreneurship: The Venture, Grade 11, College Preparation BDI3C0

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 student-run school-based or summer business. Through hands-on experiences, students will have opportunities to develop the values, traits, and skills most often associated with successful entrepreneurs. **Prerequisite: None**

Entrepreneurship: Venture Planning in an Electronic Age, Grade 12, College Preparation

BDV4C1

This course provides students with the opportunity to develop and apply entrepreneurial skills through the creation of a venture plan that capitalizes on the potential of e-commerce. Students will research and identify an opportunity for a venture. They will then complete the components of a venture plan that includes a website. **Prerequisite Entrepreneurship: The Venture, Grade 11, College**

INFORMATION TECHNOLOGY

Information and Communication Technology: The Digital Environment, Grade 11, Open BTA3O0

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 postsecondary studies. **Prerequisite: None**

MARKETING

Marketing: Goods, Services, Events, Grade 11, College Preparation BMI3C0

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. **Prerequisite: None**

Marketing Retail and Service, Grade 11, Workplace Preparation BMX3E0

This course focuses on marketing activities in the retail and service sectors. Students will examine trends and global influences on marketing decisions, and will learn about the importance of customer service in developing a customer base and maintaining customer loyalty. Through hands-on learning, students will develop personal selling and information technology skills that will prepare them for a variety of marketing-related positions in the workplace. **Prerequisite: None**

International Business Fundamentals Grade 12, University/College Preparation BBB4M1

This course provides an overview of the importance of international sports and entertainment business in the global economy and explores the factors that influence success. Students will learn about techniques and strategies associated with marketing, distribution, and managing international sports and entertainment businesses effectively. This course prepares students for post secondary programs in business, including international business, marketing and business. **Prerequisite: Any university, university/college, or college preparation course in Business Studies, English, or Canadian and World Studies**

Business Leadership: Management Fundamentals, Grade 12, University/College Preparation BOH4M1

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 will be emphasized throughout the course. **Prerequisite: Any university, university/college, or college preparation course in Business Studies, English, or Canadian and World Studies**

CANADIAN AND WORLD STUDIES

Civics, Grade 10, Open

CHV200

This course explores what it means to be an informed, participating citizen in a democratic society. Students will learn about the elements of democracy in local, national, and global contexts, about political reactions to social change, and about political decision-making processes in Canada. They will explore their own and others' ideas about civics questions and learn how to think critically about public issues and react responsibly to them. This credit is taught in conjunction with Career Education (GLC20) Prerequisite: **None. Available in French (CHV2OL)**

ECONOMICS

Analysing Current Economic Issues, Grade 12, University Preparation **CIA4U1**

This course investigates the nature of the competitive global economy and explores how individuals and societies can gain the information they need to make appropriate economic decisions. Students will learn about the principles of micro- and macroeconomics, apply economic models and concepts to interpret economic information, assess the validity of statistics, and investigate marketplace dynamics. Students will use economic inquiry and communication skills to analyse current economic issues, make informed judgments, and present their findings. **Prerequisite: Any university or university/college preparation course in Canadian and World Studies, English, or Social Sciences and Humanities**

GEOGRAPHY

Travel and Tourism: A Geographic Perspective Grade 11, Open **CGG301**

This course focuses on travel and tourism as a vehicle for the study of selected world regions. Using a variety of geotechnologies and inquiry and communication methods, students will conduct and present case studies that develop their understanding of the unique characteristics of selected world regions; the environmental, cultural, economic, and political factors that influence travel and tourism; and the impact of the travel industry on communities and environments around the world. **Prerequisite: Geography of Canada, Grade 9, Academic or Applied**

World Issues: A Geographic Analysis, Grade 12, University Preparation **CGW4U1**

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

HISTORY

Canadian History Since World War I Grade 10, Academic **CHC2D0**

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. **Prerequisite: None Available in French (CHC2DL)**

Canadian History Since World War I, Grade 10, Applied

CHC2P0

This course explores some of the events and experiences that have influenced the development of Canada's identity as a nation, from World War I to the present. By examining how the country has responded to economic, social, and technological changes and how individuals and groups have contributed to Canadian culture and society during this period, students will develop their ability to make connections between historical and current events. Students will have opportunities to formulate questions, locate information, develop informed opinions, and present ideas about the central issues and events of the period. **Prerequisite: None**

Canadian History Since World War I, Grade 10 Locally Developed Compulsory Credit Course

CHC2L0

This course focuses on the connections between the student and key people, events and themes in Canadian contemporary studies. (Students prepare for grade 11 Canadian and World Studies Workplace Preparation courses through the development and extension of historical literacy skills and critical thinking skills.) Students explore a variety of topics highlighting individuals and events that have contributed to the story of Canada. The major themes of Canadian identity, internal and external relationships and changes since 1914, are explored through guided investigation. Students have the opportunity to extend analytical skills with a focus on identifying and interpreting events and perspectives and making connections. Students practice reading, writing, visual, and oral literacy skills to identify and communicate ideas in a variety of media. **Prerequisite: Recommendation Required**

American History, Grade 11, University Preparation

CHA3U1

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. **Prerequisite: Canadian History in the Twentieth Century, Grade 10, Academic or Applied**

World History to the Sixteenth Century, Grade 11, University/College Preparation

CHW3M1

This course investigates the history of humanity from earliest times to the sixteenth century. Students will analyse diverse societies from around the world, with an emphasis on the political, cultural, and economic structures and historical forces that have shaped the modern world. They will apply historical inquiry, critical-thinking, and communication skills to evaluate the influence of selected individuals, groups, and innovations and present their conclusions. **Prerequisite: Canadian History in the Twentieth Century, Grade 10, Academic or Applied**

World History: The West and the World, Grade 12, University Preparation **CHY4U1**

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

LAW

Canadian Law, Grade 11, University/College Preparation **CLU3M1**

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. **Prerequisite: Canadian History in the Twentieth Century, Grade 10, Academic or Applied**

Canadian and International Law, Grade 12, University Preparation **CLN4U1**

This course examines elements of Canadian and international law in social, political, and global contexts. Students will study the historical and philosophical sources of law and the principles and practices of international law and will learn to relate them to issues in Canadian society and the wider world. Students will use critical-thinking and communication skills to analyse legal issues, conduct independent research, and present the results of their inquiries in a variety of ways. **Prerequisite: Any university or university/college preparation course in Canadian and World Studies, English, or Social Sciences and Humanities**

SOCIAL SCIENCES AND THE HUMANITIES

CATHOLIC STUDIES

Christ and Culture: Grade 10 Open **HRE 200**

This course examines the relationship between the person and message of Christ and the dominant attitudes of contemporary culture. Central to this course is the sacramental nature of

Jesus and through His incarnation, the sacramentality of the Catholic Church, persons, and all of creation. Beginning with students' own life experiences, seen in light of the Gospel narratives, students acquire a deeper and more systematic knowledge of Christ, his message, and his Church. Connections between the Church and contemporary culture are explored in terms of what it means to be a responsible adolescent developing as a member of a Catholic, Christian community while living within the context of a secular society. In the Family Life Education strand, students explore a variety of topics related to the themes of person-hood, interpersonal relationships, and sexuality. Students have the opportunity to experience first-hand the call and response to Christian Community Service. **Available in French (HRE2OL)**

WORLD RELIGIONS

World Religions and Belief Traditions: Perspectives, Issues and Challenges, Grade 11, University/College Preparation HRT 3M0

This course will fulfill the expectations of the Church in its desire that students in Catholic schools develop an objective and respectful understanding of other religious traditions from the perspective of the Catholic Church. To that end, student learning will include an understanding of the Church's teachings on world religious traditions and those principles which inform ecumenical and interreligious dialogue, together with an historical overview of the Church's relationship with various religions, particularly Judaism and Islam. For all students, this course will help break down prejudice about other religions, and for some they may lead to a deeper understanding and more authentic adherence to the teachings of the Church concerning spiritual and moral truth. Other religious traditions are encountered through the unique perspective of the Catholic Church. **(Available in French (HRT3ML))**

Prerequisite: None

World Religions and Belief Traditions in Daily Life, Grade 11, Open HRF 300

This course will fulfill the expectations of the Church in its desire that students in Catholic schools develop an objective and respectful understanding of other religious traditions from the perspective of the Catholic Church. Students will explore the universal themes within the world's major religious traditions. Within a contemporary cultural context, students will explore the encounter between Christianity and other religious traditions. For all students, this course will help break down prejudice about other religions, and for some they may lead to a deeper understanding and more authentic adherence to the teachings of the Church concerning spiritual and moral truth. Other religious traditions are encountered through the unique perspective of the Catholic Church.

Prerequisite: None

CATHOLIC SOCIAL TEACHINGS

Church and Culture, Grade 12 Open HRE400

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.

This course enables students to explore the moral principles of the Church and how these principles relate to them as individuals, and to contemporary culture as a whole. Students explore the role played by the Christian Scriptures, prayer, ritual, and the sacraments as they discern and live out their Christian vocation in their lives. This course also introduces students to skills used in researching and investigating contemporary moral issues and the guiding principles and teachings of the Roman Catholic Church. **Prerequisite: None**

Church and Culture, Grade 12 University/College Preparation

HRE4M0

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 an exploration of the principles that shape Christian life. In the Family Life Education strand, students explore a variety of topics related to the themes of personhood, 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. This course is intended to prepare the senior student for this lifelong task. **Prerequisite: None Available in French (HRE4ML)**

FAMILY STUDIES

Food and Nutrition, Grade 10 Open

HFN200

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.

Prerequisite: None

Raising Healthy Children, Grade 11 Open

HPC300

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. **Prerequisite: None**

Introduction to Anthropology, Psychology, and Sociology, Grade 11 College Preparation

HSP3C0

This course introduces students to theories, questions, and issues related to anthropology, psychology, and sociology. Students learn about approaches and research methods used by

social scientists. They will be given opportunities to apply theories from a variety of perspectives, to conduct social science research, and to become familiar with current issues within the three disciplines. **Prerequisite: None**

Introduction to Anthropology, Psychology, and Sociology, Grade 11 University Preparation

HSP3U1

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

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

Philosophy: Questions and Theories, Grade 12 University Preparation

HZT4U1

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

Families in Canada, Grade 12 University Preparation

HHS4U1

This course enables students to draw on sociological, psychological, and anthropological theories and research to analyze the development of individuals, intimate relationships, and family and parent-child relationships. Students will focus on issues and challenges facing individuals and families in Canada's diverse society. They will develop analytical tools that enable them to assess various factors affecting families and to consider policies and practices intended to support families in Canada. They will develop the investigative skills required to conduct and communicate the results of research on individuals, intimate relationships, and parent-child relationships.

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

Families in Canada, Grade 12 College Preparation

HHS4C1

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.

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

Nutrition and Health, Grade 12 College Preparation

HFA4C1

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.

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

Nutrition and Health, Grade 12 University Preparation

HFA4U1

This course examines the relationships between food, energy balance, and nutritional status; the nutritional needs of individuals at different stages of life; and the role of nutrition in health and disease. Students will evaluate nutrition-related trends and will determine how food choices can promote food security and environmental responsibility. Students will learn about healthy eating, expand their repertoire of food-preparation techniques, and develop their social science research skills by investigating issues related to nutrition and health.

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

Challenge and Change in Society, Grade 12 University Preparation

HSB4U1

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 analyze how and why cultural, social, and behavioral patterns change over time. They will explore the ideas of social theorists and use those ideas to analyze 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.

ENGLISH

English, Grade 10, Academic

ENG2D1

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. **Prerequisite: English, Grade 9, Academic or Applied**

English, Grade 10, Applied**ENG2P1**

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. **Prerequisite: English, Grade 9, Academic or Applied**

English, Grade 10, Essential**ENG 2L1**

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. 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 build on their strategies and engage in the processes involved in talking, listening, reading, viewing, writing, and thinking, and reflect regularly upon their growth in these areas. **Prerequisite: Recommendation required or ENG1L0**

Media Studies**EMS3O1**

This course emphasizes knowledge and skills that will enable students to understand media communication in the twenty-first century and to use media effectively and responsibly. Through analysing the forms and messages of a variety of media works and audience responses to them, and through creating their own media works, students will develop critical thinking skills, aesthetic and ethical judgement, and skills in viewing, representing, listening, speaking, reading, and writing. **Prerequisite: ENG2D1 or ENG2P1**

English, Grade 11, University Preparation**ENG3U1**

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. **Prerequisite: English, Grade 10, Academic**

English, Grade 11, College Preparation**ENG3C1**

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. **Prerequisite: English, Grade 10, Applied or ENG2L0 (with teacher recommendation)**

English, Grade 11, Workplace Preparation

ENG3E1

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. **Prerequisite: English, Grade 10, Applied or ENG2L0**

English: Contemporary Aboriginal Voices, Grade 11 University Preparation

NBE3U1

This course emphasizes the development of literacy, critical thinking, and communication skills through the study of works in English by aboriginal writers. Through the analysis of literary texts and media works, students will develop an appreciation of the wealth and complexity of Aboriginal writing. Students will also conduct research and analyze the information gathered; write persuasive and literary essays; and analyze the relationship between media forms and audiences. An important focus will be the further development of students' understanding of English-language usage and conventions. **Prerequisite: English, Grade 10, Academic**

English, Grade 12, University Preparation

ENG4U1

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. **Prerequisite: English, Grade 11, University Preparation**

English, Grade 12, College Preparation

ENG4C1

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. **Prerequisite: English, Grade 11, College Preparation**

English, Grade 12, Workplace Preparation

ENG4E1

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. **Prerequisite: English, Grade 11, Workplace Preparation**

Optional Courses in English

Literacy Skills: Reading and Writing, Grade 11, Open

ELS200

This course is designed to help students strengthen essential reading and writing skills, providing them with the extra literacy support they need in order to graduate. Students will read informational, graphic, and literary texts, with a focus on locating information, identifying main ideas and supporting details, building vocabulary, and consolidating skills in the application of key comprehension strategies. The course will also help students develop core-learning strategies. **Prerequisite: This course is recommended for students who have failed the Ontario Secondary School Literacy Test (OSSLT) or who need extra help to pass it. Students should only take this course on the recommendation of a teacher or their guidance counsellor.**

Ontario Secondary School Literacy Course

OLC400

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 provincial literacy requirement for graduation. Students will read a variety of informational, narrative, and graphic texts and will produce a variety of forms of writing, including summaries, information paragraphs, opinion pieces, and news reports. Students will also maintain and manage a portfolio containing a record of their reading experiences and samples of their writing. **Eligibility requirement: Students who have been unsuccessful in the OSSLT are eligible to take the course.**

The Writer's Craft Grade 12, University Preparation

EWC4U1

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. **Prerequisite: English, Grade 11, University Preparation. Only students who show interest and aptitude in creative writing should take this course**

Issues of Indigenous Peoples in a Global Context, Grade 12 University/College Preparation

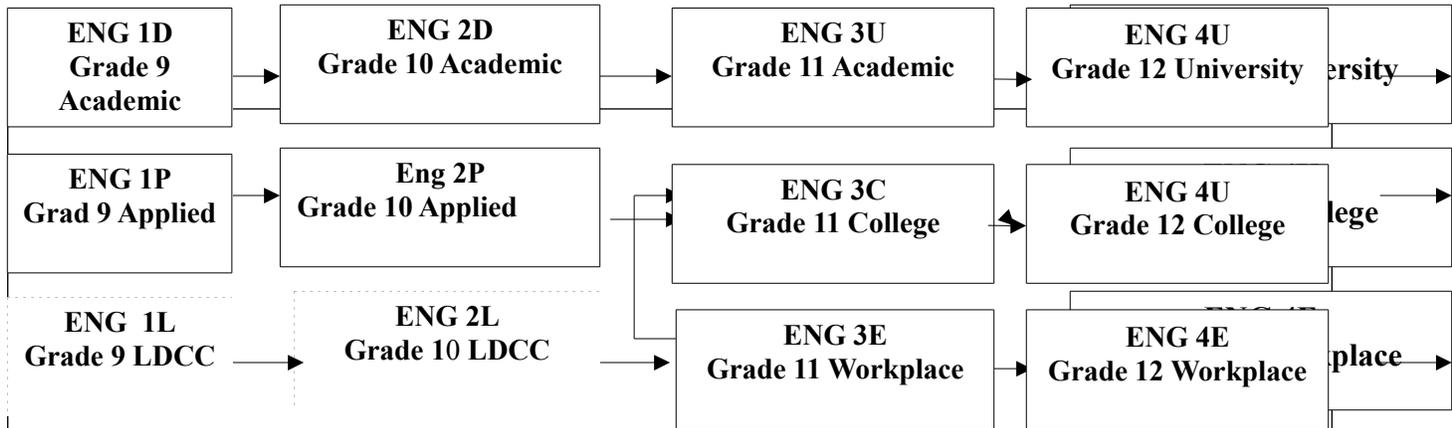
NDW4M1

This course provides students with an overview of the issues and challenges that confront indigenous peoples worldwide. Students will develop an understanding of the concerns and aspirations of the world's indigenous population, plan and conduct research on global issues that have an impact on indigenous peoples, and use information technology to consult materials related to the views of indigenous peoples throughout the world. **Prerequisite: Any Grade 11 University, University/College, or College preparation course in Native Studies.**

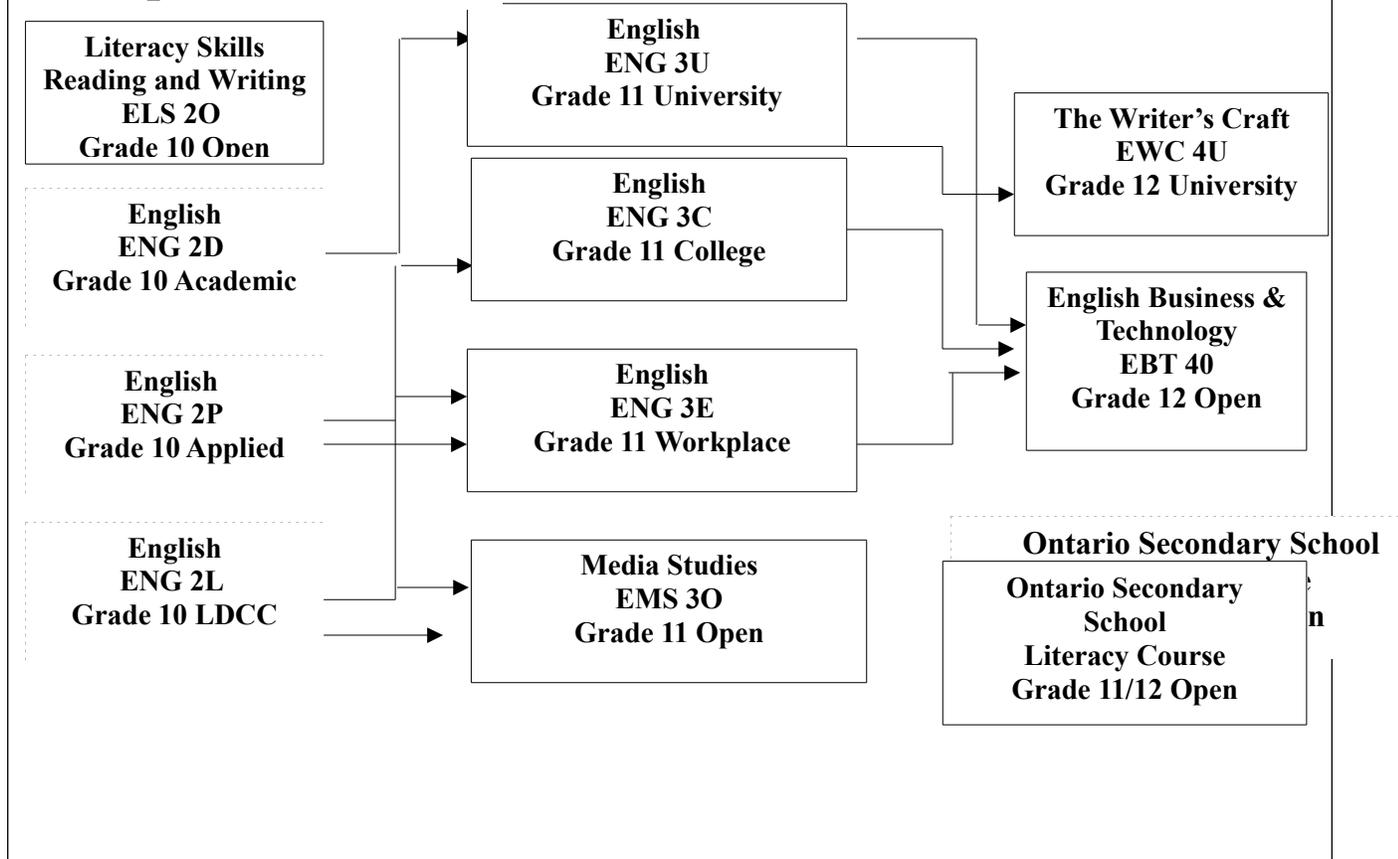
Charts for English - Grade 9 -12

These Charts map out all the courses in the discipline and show the link between courses and the possible prerequisites for them. They do not attempt to depict all possible movement from course to course.

Compulsory Courses



Optional Courses



GUIDANCE AND CAREER EDUCATION

Career Studies, Grade 10, Open

GLC200

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. **Prerequisite: None Available in French (GLC20L)**

Designing Your Future

GWL301

These courses prepare students to make successful transitions to postsecondary destinations as they investigate specific postsecondary options based on their skills, interests, and personal characteristics. Students will explore the realities and opportunities of the workplace and examine factors that affect success, while refining their job search and employability skills. Students will expand their portfolios with a focus on their targeted destination and develop an action plan for future success. Course can only be selected in consultation with Guidance Counsellor. **Prerequisite: Career Studies, Grade 10, Open**

Leadership and Peer Support, Grade 11 Open

GPP301

The focus of this course is to provide students with the knowledge and skills necessary for effective communication, leadership, and service to others in the school and community. It recognizes that the students must understand the concept of leadership and must be able to lead themselves before they can be effective leaders for others. It also recognizes the qualities of leaders and holds Jesus as our role model of a leader. The goal of the course is to bring self and others into a more personal relationship with Jesus through service in the school, parish and the global community. It will provide the student with a process for effective learning which the learner can use throughout his/her life. The student will identify and effectively use personal management skills and demonstrate an understanding of effective learning strategies and barriers to effective learning that will help him/her to be successful in leadership and peer support roles. Throughout this course students will develop attitudes and values founded on Catholic social teaching and act to promote social responsibility, solidarity, and the common good. Students will also develop skills in communication, interpersonal relations, coaching, leadership, teamwork, and conflict management. This course offers the student the opportunity to provide assistance to others and to address the needs of the community by utilizing their God-given talents and abilities and applying them to roles such as tutoring, mentoring, student council involvement, and other leadership positions within the greater community. **Prerequisite: Grade 10 Open Religion, Recommendation: 70% average in grade 10 courses and application form with two teacher references must be handed in.**

Navigating the Workplace, Grade 12, Open

GLN400

This course provides students with opportunities to develop the workplace skills and work habits required for success in all types of workplaces. Students will explore occupations and careers of interest through participation in real workplace experiences. They will make plans for continued learning and work, work with others to design learning experiences, and investigate the resources and support required to make a smooth transition to the workplace. Course can only be selected in consultation with Guidance Counsellor. **Prerequisite: None**

HEALTH AND PHYSICAL EDUCATION

Healthy Active Living Education, Grade 10, Open

Female PPL20F

Male PPL20M

This course emphasizes regular participation in a variety of enjoyable physical activities that promote lifelong healthy active living. Student learning will include the application of movement principles to refine skills; participation in a variety of activities that enhance personal competence, fitness, and health; examination of issues related to healthy sexuality, healthy eating, substance use and abuse; and the use of informed decision-making, conflict resolution, and social skills in making personal choices. **Prerequisite: None**

Personal Fitness, Grade 10, Open – Non Traditional Activities

Female PAF20F

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, social, and interpersonal skills. They will also study the components of healthy relationships, mental and personal health that will promote lifelong learning and healthy choices. **Prerequisite: None**

Soccer, Focus on a Minimum of 4 Individuals and Large Group Activities, Grade 10, Open

CO-ED Soccer PAL200

This course emphasizes regular participation in a variety of enjoyable physical activities that promote lifelong healthy active living. Student learning will centre around the sport of soccer. Students will be involved in an in-depth study of skills, drills, offensive and defensive strategies, along with coaching techniques and game strategies. Health related topics include proper nutrition, healthy sexuality, substance use and abuse, conflict resolution and social skills. Movement skills will be refined. **Prerequisite: None**

Healthy Active Living Education, Focus on a Minimum of 4 Individuals and Small Group Activities, Grade 10, , Open

PAI200

This course emphasizes regular participation in a variety of enjoyable physical activities that promote lifelong healthy living. Student learning will include application of movement principles to refine skills; participation in a variety of activities that enhance personal competence, fitness and health; examination of issues related to healthy sexuality, healthy eating, substance use and abuse; the use of informed decision making, conflict resolution and social skills in making person choices. This course is for hockey-minded students and will include 2 on-ice sessions per week. Students will focus on skating speed, agility, stick hankdling, shooting accuracy, passing skills and team work. **Prerequisite: None**

Healthy Active Living Education, Grade 11, Open

Female PPL30F

Male PPL30M

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, social, and interpersonal skills. Students will also study the components of healthy relationships, mental health, stress and risk taking behaviour. If inadequate numbers this may be combined into one course. **Prerequisite: None**

Leadership – Healthy Active Living Education, Grade 11 – CO-ED, Open PAD300

This course focuses on the participation and planning of a variety of enjoyable physical activities. Students will be encouraged to develop leadership skills through goal setting, decision making and interpersonal skills. Select students will participate in the Muskoka experience. This is a highly academic course.

Personal Fitness, Grade 11, Open Female PAF30F Male PAF30M

This focus of this course is on the 5 components of physical fitness. Through active participation, students will explore and improve personal fitness and gain an understanding of the most commonly used muscle groups. Students will be provided with opportunities need to maintain a healthy lifestyle through the investigation and creation of a personalized fitness program using basic physiological principles. Nutrition and mental health will also be key areas of study for the students.

Healthy Active Living Education, Grade 12, Open PPL400

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. **Prerequisite: None**

Personal Fitness Grade 12, Open CO-ED PAF400

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, social and interpersonal skills. Students will also study the components of physical fitness, nutrition, healthy weight management and body structure. This course will focus on personal fitness and will include participation in activities off school campus. **Prerequisite: None**

Recreation and Fitness Leadership, Grade 12 College Preparation PLF4C1

This course focuses on the development of leadership and coordination skills related to recreational activities. Students will acquire the knowledge and skills required to plan, organize, and implement recreational events. They will also learn how to promote the value of physical fitness, personal well-being, and personal safety to others through mentoring. The course will prepare students for college programs in recreational, leisure, and fitness leadership. **Prerequisite: Any Grade 11 or 12 Open course in Health and Physical Education**

Exercise Science, Grade 12, University Preparation PSE4U1

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

LANGUAGES

Core French, Grade 10, Academic

FSF2D1

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

Prerequisite: Core French, Grade 9, Academic or Applied

Core French, Grade 11, University Preparation

FSF3U1

This course draws on a variety of themes to promote extensive development of reading and writing skills and to reinforce oral communication skills. Students will gain a greater understanding of French-speaking cultures in Canada and around the world through their reading of a variety of materials, including a short novel or a play. Students will produce various written assignments, including a formal essay. The use of correct grammar and appropriate language conventions in both spoken and written French will be emphasized throughout the course. **Prerequisite: Core French, Grade 10, Academic**

Core French, Grade 12, University Preparation

FSF4U1

This course draws on a variety of themes to promote extensive development of French-language skills. Students will consolidate their oral skills as they discuss literature, culture, and current issues. They will read a variety of texts and will write a formal essay. The use of correct grammar and appropriate language conventions in both spoken and written French will be emphasized throughout the course. **Prerequisite: Core French, Grade 11, University Preparation**

FRENCH IMMERSION

A certificate indicating achievement in French Immersion will be awarded to students who have earned at least 10 credits in French Immersion Courses throughout Secondary School. **Note: These courses will only be offered if numbers permit.**

French Immersion, Grade 10, Academic

FIF2DL

This course enables students to increase their knowledge of the French language and to further develop their language skills through the study of twentieth-century European francophone literature and culture. Students will participate in oral communication, reading, and writing activities based on a variety of French literary and media works. They will study at least one novel and a selection of poems, short stories, films, plays, and newspaper and magazine articles. **Prerequisite: French Immersion, Grade 9, Academic**

French Immersion, Grade 11, University Preparation

FIF3UL

This course develops knowledge and language skills through the study of francophone literature and culture from around the world. Students will study novels, plays, poems, short stories, films, and non-fiction works and produce written assignments in a variety of forms, including critiques and précis. They will also write a formal research essay. The use of correct grammar and

appropriate language conventions in both spoken and written French will be emphasized throughout the course. **Prerequisite: French Immersion, Grade 10, Academic**

French Immersion, Grade 12, University Preparation

FIF4UL

This course provides for extensive study of French literature and culture from the Middle Ages to the present. Students will study novels, plays, poems, films, and non-fiction works produced in various historical periods, and will write a formal research paper. The use of correct grammar and appropriate language conventions in both spoken and written French will be emphasized throughout the course. **Prerequisite: French Immersion, Grade 11, University Preparation**

French Immersion Options

Civics, Grade 10 Open, French

CHV2OL

This course explores what it means to be an informed, participating citizen in a democratic society. Students will learn about the elements of democracy in local, national, and global contexts, about political reactions to social change, and about political decision-making processes in Canada. They will explore their own and others' ideas about civics questions and learn how to think critically about public issues and react responsibly to them. This credit is taught in conjunction with Career Education (GLC20) **Prerequisite: None**

Canadian History Since World War I, Grade 10 Academic, French

CHC2DL

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. **Prerequisite: None**

Religion: Christ and Culture, Grade 10 Open, French

HRE2OL

This course examines the relationship between the person and message of Christ and the dominant attitudes of contemporary culture. Central to this course is the sacramental nature of Jesus and through His incarnation, the sacramentality of the Catholic Church, persons, and all of creation. Beginning with students' own life experiences, seen in light of the Gospel narratives, students acquire a deeper and more systematic knowledge of Christ, his message, and his Church. Connections between the Church and contemporary culture are explored in terms of what it means to be a responsible adolescent developing as a member of a Catholic, Christian community while living within the context of a secular society. In the Family Life Education strand, students explore a variety of topics related to the themes of person-hood, interpersonal relationships, and sexuality. Students have the opportunity to experience first-hand the call and response to Christian Community Service. **Prerequisite: None**

World Religions and Belief Traditions in Daily Life, Grade 11, University/College Preparation, French

HRT3ML

This course enables students to discover what others believe and how they live, and to appreciate their own unique heritage. Students will learn about the teachings and traditions of a variety of religions: from the Catholic Christian perspectives, the connections between religion and the development of civilizations, the place and function of religion in human experience, and

the influence of a broad range of religions on contemporary society. This course also introduces students to skills used in researching and investigating world religions. **Prerequisite: None**

Religious Education: Church and Culture, Grade 12, University/College Preparation, French HRE4ML

This course concerns itself with religious and philosophical principals underlying the basic social documents of the Catholic intellectual tradition. The framework for assessing the Church's social role will be studied from economic, social, and political perspectives with special attention to issues that are of contemporary concern in Canada and globally, e.g., human rights, respect for human life in all stages, family life and Christian sexual ethics, discrimination and racism, economic justice, stewardship of God's creation, etc. Special attention will be given to the Social Encyclicals, Sacred Scripture, the Catechism of the Catholic Church, as well as, the writings and works of the Saints and men and women of good will who have contributed to the shaping of the Church's call to holiness and justice for all. **Prerequisite: None**

Career Studies, Grade 10 Open, French GLC2OL

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. **Prerequisite: None**

MATHEMATICS

Principles of Mathematics, Grade 10, Academic MPM2D1

This course enables students to broaden their understanding of relations, extend their skills in multi-step problem solving, and continue to develop their abilities in abstract reasoning. Students will pursue investigations of quadratic functions and their applications; solve and apply linear systems; solve multi-step problems in analytic geometry to verify properties of geometric figures; investigate the trigonometry of right and acute triangles; and develop supporting algebraic skills. **Prerequisite: Mathematics, Grade 9, Academic Recommend 65% minimum**

Foundations of Mathematics, Grade 10, Applied MFM2P1

This course enables students to consolidate their understanding of key mathematical concepts through hands-on activities and to extend their problem-solving experiences in a variety of applications. Students will solve problems involving proportional reasoning and the trigonometry of right triangles; graph equations of lines in analytic geometry; and solve problems involving quadratic functions. The effective use of technology in learning and in solving problems will be a focus of the course. **Prerequisite: Mathematics, Grade 9, Academic or Applied**

Mathematics, Grade 10, Essential MAT 2L1

This course emphasizes further development 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 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. **Prerequisite: Recommendation required or MAT 1L**

Functions, Grade 11, University Preparation

MCR3U1

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; and develop facility in determining equivalent algebraic expressions. Students will reason mathematically and communicate their thinking as they solve multi-step problems. **Prerequisite: Principles of Mathematics, Grade 10, Academic (65% minimum recommended)**

Functions and Applications, Grade 11, University/College Preparation

MCF3M1

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 modeling real-world situations. Students will represent functions numerically, graphically, and algebraically; simplify expressions; solve equations; and solve problems relating to financial and trigonometric applications. Students will reason mathematically and communicate their thinking as they solve multi-step problems. **Prerequisite: Principles of Mathematics, Grade 10, Academic, or Foundations of Mathematics, Grade 10, Applied (75% minimum recommended)**

Foundations for College Mathematics, Grade 11, College Preparation

MBF3C1

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, as well as of measurement and geometry; investigate situations involving exponential growth; solve problems involving compound interest; solve financial problems connected with vehicle ownership; and develop their ability to reason by collecting, analysing, and evaluating data involving one variable by connecting probability and statistics and solving problems in geometry and trigonometry. Students will consolidate their mathematical skills as they solve problems and communicate their thinking. **Prerequisite: Foundations of Mathematics, Grade 10, Applied**

Mathematics for Work and Everyday Life, Grade 11, Workplace Preparation

MEL3E1

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. **Prerequisite: Principles of Mathematics, Grade 9, Academic, or Foundations of Mathematics, Grade 9, Applied, or a ministry-approved locally developed Grade 10 mathematics course**

Calculus and Vectors, Grade 12, University Preparation**MCV4U1**

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, rational, exponential, and sinusoidal 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 plan to study mathematics in university and who may choose to pursue careers in fields such as physics and engineering. **Prerequisite/co requisite Advanced Functions, grade 12 MHF4U Note: The new Advanced Functions can be taken concurrently with or can precede Calculus and Vectors.**

Advanced Functions, Grade 12, University Preparation**MHF4U1**

This course extends students' experience with functions. Students will investigate the properties of polynomial, rational, logarithmic, and trigonometric 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 who plan to study mathematics in university and for those wishing to consolidate their understanding of mathematics before proceeding to any one of a variety of university programs. **Prerequisite: Functions, Grade 11, University Preparation, or Mathematics for College Technology, Grade 12, College Preparation**

Mathematics of Data Management, Grade 12, University Preparation**MDM4U1**

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. **Prerequisite: Functions and Applications, Grade 11, University/College Preparation, or Functions, Grade 11, University Preparation**

Mathematics for College Technology, Grade 12, College Preparation**MCT4C1**

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. **Prerequisite: Functions and Applications, Grade 11, University/College Preparation (65% minimum recommended)**

Foundations for College Mathematics, Grade 12, College Preparation

MAP 4C1

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. **Prerequisite: Foundations for College Mathematics, Grade 11, College Preparation (65% minimum recommended)**

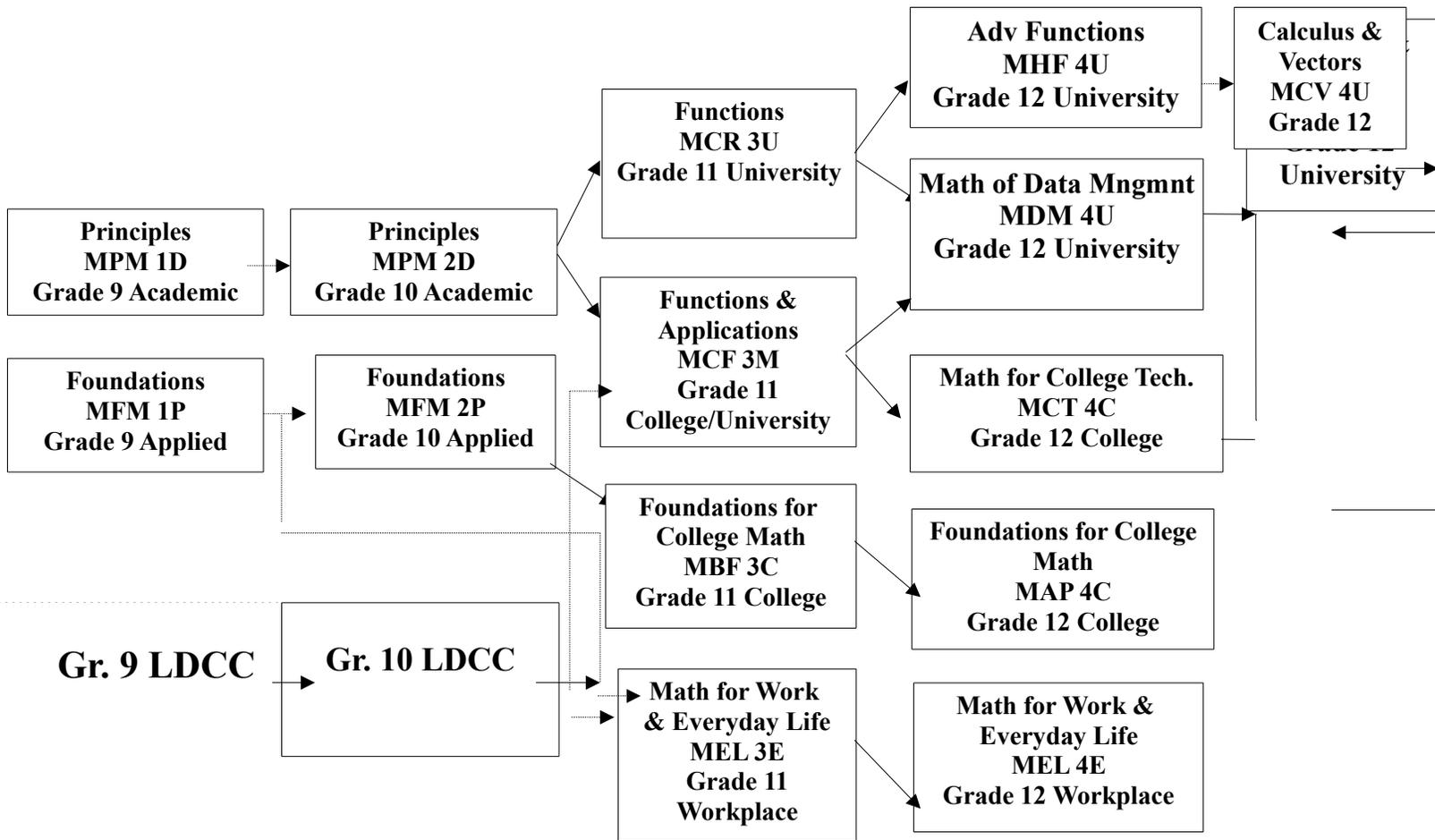
Mathematics for Work and Everyday Life, Grade 12, Workplace Preparation

MEL4E1

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 and create household budgets; 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. **Prerequisite: Mathematics for Work and Everyday Life, Grade 11, Workplace Preparation**

Prerequisite Chart for Mathematics, Grade 9-12

NOTE: The Advance Functions MHF 4U must be taken prior to or concurrently with Calculus & Vectors MCV 4U



This chart maps out all the courses in the discipline and shows the links between courses and the minimum requirements for them. It does not attempt to depict all possible movements from course to course.

LDCC – Locally Developed Compulsory Credit
Course . . . Possible with consultation

**LDCC-Locally Developed Compulsory Credit
Course....Possible with consultation**

SCIENCE

Science, Grade 10, Academic

SNC2D1

This course enables students to develop a deeper understanding of concepts in biology, chemistry, earth and space science, and physics; to further develop their skills in scientific inquiry; and to understand the interrelationships among science, technology, and the environment. Students will conduct investigations and understand scientific theories related to ecology and the maintenance of ecosystems; chemical reactions, with particular attention to acid-base reactions; factors that influence weather systems; and motion. **Prerequisite: Science, Grade 9, Academic (recommended 60%) or Applies (recommended 75%)**

Science, Grade 10, Applied

SNC2P1

This course enables students to develop a deeper understanding of concepts in biology, chemistry, earth and space science, and physics; to further develop their practical skills in scientific investigation; and to apply their knowledge of science to real-world situations. Students will design and conduct investigations into everyday problems and issues related to ecological sustainability, chemical reactions, weather systems, and motion. **Prerequisite: Science, Grade 9, Academic or Applied**

BIOLOGY

Biology, Grade 11, University Preparation

SBI3U1

This course furthers students' understanding of the processes involved in biological systems. Students will study cellular functions, genetic continuity, internal systems and regulation, the diversity of living things, and the anatomy, growth, and functions of plants. The course focuses on the theoretical aspects of the topics under study, and helps students refine skills related to scientific investigation. **Prerequisite: Science, Grade 10, Academic (recommended 60%)**

Biology, Grade 11, College Preparation

SBI3C1

This course focuses on the processes involved in biological systems. Students will learn concepts and theories as they conduct investigations in the areas of cellular biology, microbiology, animal anatomy and physiology, plant structure and physiology, and environmental science. 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. **Prerequisite: Science, Grade 10, Academic or Applied**

Biology, Grade 12, University Preparation**SBI4U1**

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. **Prerequisite: Biology, Grade 11, University Preparation (recommended 60%)**
Recommend chemistry grade 11, University Preparation

CHEMISTRY**Chemistry, Grade 11, University Preparation****SCH3U1**

This course focuses on the concepts and theories that form the basis of modern chemistry. Students will study the behaviours of solids, liquids, gases, and solutions; investigate changes and relationships in chemical systems; and explore how chemistry is used in developing new products and processes that affect our lives and our environment. Emphasis will also be placed on the importance of chemistry in other branches of science. **Prerequisite: Science, Grade 10, Academic (recommended 60%)**

Chemistry, Grade 12, University Preparation**SCH4U1**

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. **Prerequisite: Chemistry, Grade 11, University Preparation (recommended 60%)**

Chemistry, Grade 12, College Preparation**SCH4C1**

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. **Prerequisite: Science, Grade 10, Academic or Applied**

PHYSICS**Physics, Grade 11, University Preparation****SPH3U1**

This course develops students' understanding of the basic concepts of physics. Students will study the laws of dynamics and explore different kinds of forces, the quantification and forms of energy (mechanical, sound, light, thermal, and electrical), and the way energy is transformed

and transmitted. They will develop scientific inquiry skills as they verify accepted laws and solve both assigned problems and those emerging from their investigations. Students will also analyse the interrelationships between physics and technology, and consider the impact of technological applications of physics on society and the environment. **Prerequisite: Science, Grade 10, Academic (dept. Recommendation 60%) Math, Grade 10, Academic (dept. recommendation 60%)**

Physics, Grade 12, University Preparation

SPH4U1

This course enables students to deepen their understanding of the concepts and theories of physics. Students will further explore 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. **Prerequisite: Physics, Grade 11, University Preparation (recommended 60%)**

Physics, Grade 12, College Preparation

SPH4C1

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. **Prerequisite: Science, Grade 10, Academic or Applied (recommended 60%)**

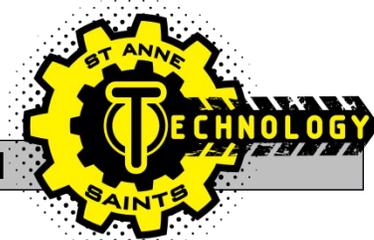
ENVIRONMENTAL SCIENCE

Environmental Science, Grade 11, Workplace Preparation

SVN3E1

This course provides students with the fundamental knowledge of and skills relating to environmental science that will help them succeed in work and life after secondary school. Students will explore a range of topics, including the impact of human activities on the environment; human health and the environment; energy conservation; resource science and management; and safety and environmental responsibility in the workplace. Emphasis is placed on relevant, practical applications and current topics in environmental science, with attention to the refinement of students' literacy and mathematical literacy skills as well as the development of their scientific and environmental literacy. **Prerequisite: Science, Grade 9, Academic or Applied, or a Grade 9 or 10 locally developed compulsory credit (LDCC) course in science**

TECHNOLOGICAL EDUCATION



PART A: COMPUTER STUDIES

Introduction to Computer Studies, Grade 10, Open

ICS200

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. **Prerequisite: None**

Introduction to Computer Programming, Grade 11, College Preparation ICS3C0

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.

Prerequisite: None

Computer Programming, Grade 12, College Preparation ICS4C1

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. **Prerequisite: Introduction to**

Computer Programming, Grade 11, College Preparation

Introduction to Computer Science, Grade 11, University Preparation ICS3UI

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. **Prerequisite: None**

Computer Science, Grade 12, University Preparation ICS4UI

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 analyze 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. **Prerequisite: Introduction to Computer**

Science, Grade 11, University Preparation

PART B: BROAD-BASED TECHNOLOGY

COMMUNICATIONS TECHNOLOGY

Communications Technology, Grade 10, Open

TGJ200

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 animation. Student projects may include computer-based activities such as creating videos, editing photos, working with audio, cartooning, developing animations, and designing web pages. Students will also develop an awareness of environmental and societal issues related to communications technology and explore secondary and postsecondary education and training pathways and career opportunities in the various communications technology fields. **Prerequisite: None**

Communications Technology, Grade 11, University/College Preparation

TGJ3M0

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 explore college and university programs and career opportunities in the various communications technology fields.

Prerequisite: None

Yearbook: Communications Technology: Print and Graphic Communication, Grade 11, University/College Preparation

TGG3M0

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 explore college and university programs and career opportunities in the various communications technology fields. Students will focus on digital photography, graphic illustration and journalism techniques culminating with

the production of the school yearbook. **Prerequisite: Application and interview prior to being accepted into course.**

Communications Technology: TV, Video and Movie Production, Grade 11, University/College Preparation TGV3M0

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 explore college and university programs and career opportunities in the various communications technology fields. Students will focus on Animation, Video and Video Journalism techniques in preparation for grade 12 TGV4M TV, Video and Movie Production. **Prerequisite: None.**

Yearbook: Communications Technology: Print and Graphic Communication, Grade 12, University/College Preparation TGG4M1

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 explore college and university programs and career opportunities in the various communications technology fields. Students will focus on digital photography, graphic illustration and journalism techniques culminating with the production of the school yearbook. **Prerequisite: Communications Technology: Print and Graphic Communication, Grade 11, University/College Preparation recommended and Application/Interview prior to being accepted into course**

Communications Technology: TV, Video and Movie Production, Grade 12, University/College Preparation Saints TV TGV4M1

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 explore college and university programs and career opportunities in the various communications technology fields. Students will focus on the morning video announcements and all the video, audio and multimedia required to broadcast a live show every morning. **Prerequisite: Communications Technology: TV, Video and Movie Production, Grade 11 University/College Preparation recommended and Application/Interview prior to being accepted into course.**

Communications Technology: Digital Imagery and Web Design, Grade 12, Open TGJ4O0

This course enables students to develop knowledge and skills in the areas of photography, digital imaging, animation, 3D modeling, and web design. Students will work both independently and as part of a production team to design and produce media products in a project-driven environment. Practical projects may include photo galleries, digital images, animations, 3D models, and websites. Students will also expand their awareness of environmental and societal

issues related to communications technology, and will explore postsecondary education, training, and career opportunities. **Prerequisite: None**

Communications Technology: Photography and Digital Imaging, Grade 11, University/College Preparation TGP3M0

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. This course will focus on digital images and the art and science of photography while assisting the yearbook and publishing classes. **Prerequisite: None**

Communications Technology: Photography and Digital Imaging, Grade 12, University/College Preparation TGP4M1

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. This course will further explore digital images and the art and science of photography while assisting the yearbook and publishing classes with editing and enhancing digital images. **Prerequisite: Communications Technology, Grade 11, University/College Preparation**

COMPUTER TECHNOLOGY

Computer Technology, Grade 10, Open TEJ2O0

This course introduces students to computer systems, networking, and interfacing, as well as electronics and robotics. Students will assemble, repair, and configure computers with various types of operating systems and application software. Students will build small electronic circuits and write computer programs to control simple peripheral devices or robots. Students will also develop an awareness of environmental and societal issues related to the use of computers, and learn about secondary and postsecondary pathways to careers in computer technology. **Prerequisite: None**

Computer Engineering Technology, Grade 11, University/College Preparation TEJ3M0

This course examines computer systems and control of external devices. Students will assemble computers and small networks by installing and configuring appropriate hardware and software. Students will develop knowledge and skills in electronics, robotics, programming, and networks, and will build systems that use computer programs and interfaces to control and/or respond to external devices. Students will develop an awareness of environmental and societal issues related to the use of computers, and will learn about college and university programs leading to careers in computer engineering. **Prerequisite: None**

Computer Engineering Technology, Grade 12, University/College Preparation TEJ4M1

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**

CONSTRUCTION TECHNOLOGY

Construction Technology, Grade 10, Open

TCJ200

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. **Prerequisite: None**

Construction Engineering Technology, Grade 11, College Preparation TCJ3C0 or TCJ3E0

This course focuses on the development of knowledge and skills related to residential construction. Students will gain hands on experience using a variety of construction materials, processes, tools, and equipment; learn about building design and planning construction projects; create and interpret working drawings and sections; and learn how the Ontario Building Code and other regulations and standards apply to construction projects. Students will also develop an awareness of environmental and societal issues related to construction technology, and explore career opportunities in the field.

Prerequisite: None

Construction Engineering Technology, Grade 12, College Preparation TCJ4C1 or TCJ4E1

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

HEALTH & PERSONAL SERVICES

Hairstyling and Aesthetics, Grade 10, Open

TXJ200

This course presents hairstyling, make-up, and nail care techniques from a salon/spa perspective. Through a variety of school and community-based activities, students learn fundamental skills in hairstyling, giving manicures and facials and providing hair/scalp analyses, and treatments. Students also consider related environmental and societal issues and explore secondary and postsecondary pathways leading to careers in the field of hairstyling and aesthetics. **Prerequisite:None**

Hairstyling and Aesthetics, Grade 11,Workplace Preparation

TXJ3E0

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 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 consider environmental and societal issues related to the industry and acquire a more detailed knowledge of apprenticeships and direct-entry work positions.

Prerequisite: None

Hairstyling and Aesthetics, Grade 12,Workplace Preparation

TXJ4E1

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 strengthen their fundamental cosmetology skills and develop an understanding of common business practices and strategies in the salon/spa industry. Students expand their understanding of environmental and societal issues and their knowledge of postsecondary destinations in the hairstyling and aesthetics industry. **Prerequisite: Hairstyling and Aesthetics, Grade 11, Workplace Preparation**

HOSPITALITY AND TOURISM

Hospitality and Tourism, Grade 10, Open

TFJ200

This course provides students with opportunities to explore different areas of hospitality and tourism, as reflected in the various sectors of the tourism industry, with an emphasis on food service. Students will study culinary techniques of food handling and preparation, health and safety standards, the use of tools and equipment, the origins of foods, and event planning, and will learn about tourism attractions across Ontario. Students will develop an awareness of related environmental and societal issues and will explore secondary and postsecondary pathways leading to careers in the tourism industry. **Prerequisite: None**

Hospitality and Tourism, Grade 11, College Preparation**TFJ3C0**

This course enables students to develop or expand knowledge and skills related to hospitality and tourism, as reflected in the various sectors of the tourism industry. Students will learn about preparing and presenting food, evaluating facilities, controlling inventory, and marketing and managing events and activities, and will investigate customer service principles and the cultural and economic forces that drive tourism trends. Students will develop an awareness of health and safety standards, environmental and societal issues, and career opportunities in the tourism industry. **Prerequisite: None**

Hospitality and Tourism, Grade 12, College Preparation**TFJ4C1**

This course enables students to further develop knowledge and skills related to the various sectors of the tourism industry. Students will demonstrate advanced food preparation and presentation skills; increase health and wellness knowledge; develop tourism 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 tourism industry. **Prerequisite: Hospitality and Tourism, Grade 11, College Preparation**

MANUFACTURING TECHNOLOGY**Manufacturing Technology, Grade 10, Open****TMJ2O0**

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. **Prerequisite: None**

Manufacturing Technology, Grade 11, College Preparation or Workplace**TMJ3C0 or TMJ3E0**

This course enables students to develop knowledge and skills through hands-on, project based learning. Students will acquire design, fabrication, and problem solving skills while using tools and equipment such as lathes, mills, welders, computer-aided machines, robots, and control systems. Students may have opportunities to obtain industry-standard certification and training. Students will develop an awareness of environmental and societal issues related to manufacturing and will learn about pathways leading to careers in the industry. **Prerequisite: None**

Manufacturing Technology, Grade 12, College Preparation**TMJ4C1**

This course enables students to further develop knowledge and skills related to machining, welding, print reading, computer numerical control (CNC), robotics, and design. Students will develop proficiency in using mechanical, pneumatic, electronic, and computer control systems in a project-based learning environment and may have opportunities to obtain industry-standard training and certification. Students will expand their awareness of environmental and societal issues and career opportunities in the manufacturing industry. **Prerequisite: Manufacturing Technology, Grade 11, College Preparation**

TECHNOLOGICAL DESIGN

Technological Design, Grade 10, Open**TDJ200**

This course provides students with opportunities to apply a design process to meet a variety of technological challenges. Students will research projects, create designs, build models and/or prototypes, and assess products and/or processes using appropriate tools, techniques, and strategies. Student projects may include designs for homes, vehicles, bridges, robotic arms, clothing, or other products. Students will develop an awareness of environmental and societal issues related to technological design, and learn about secondary and postsecondary education and training leading to careers in the field. **Prerequisite: None**

Technological Design and the Environment, Grade 11, Open**TDJ300**

This course enables students to apply a systematic process for researching, designing, building, and assessing solutions to address specific human and environmental challenges. Through their work on various projects, students will explore broad themes that may include aspects of industrial design, mechanical design, architectural design, control system design, and/or apparel design. Students will develop an awareness of environmental and societal issues related to technological design, and will learn about secondary and postsecondary pathways leading to careers in the field. **Prerequisite: None**

Technological Design: Architectural Design, Grade 11, University/College**TDA3M0**

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. Students will focus on residential and commercial design and model making.

Prerequisite: None**Technological Design: Architectural Design, Grade 12, University/College Preparation****TDA4M1**

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 post secondary education and training requirements for them.

Prerequisite: Technological Design, Grade 11, University/College Preparation**Technological Design in the Twenty-first Century, Grade 12, Open****TDJ400**

This course focuses on the relationship between society and technological development. Students will use appropriate tools, techniques, and strategies to research, design, build, and assess prototypes for products and/or processes that respond to society's changing needs. Students will describe how social factors, including culture, media, politics, religion, and environmental concerns, influence technological design. Students will also learn about professional practices in the field, and will research postsecondary pathways leading to careers related to technological design. **Prerequisite: None**

TRANSPORTATION TECHNOLOGY

Transportation Technology, Grade 10, Open

TTJ200

This course introduces students to the service and maintenance of vehicles, aircraft, and/or watercraft. Students will develop knowledge and skills related to the construction and operation of vehicle/craft systems and learn maintenance and repair techniques. Student projects may include the construction of a self-propelled vehicle or craft, engine service, tire/wheel service, electrical/battery service, and proper body care. Students will develop an awareness of related environmental and societal issues and will explore secondary and postsecondary pathways leading to careers in the transportation industry. **Prerequisite: None**

Transportation Technology: Auto Service, Grade 11, College Preparation

TTA3C0

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. **Prerequisite: None**

Transportation Technology: Auto Service, Grade 12, College Preparation

TTA4C1

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

ST. ANNE SECONDARY SCHOOL

COURSES, CODES, AND LEVELS

Course codes: Each course has a five-character identification code in which the first three characters refer to the subject, the fourth character refers to the grade or level, and the fifth character refers to the type of course. (Some schools may add a sixth character.) Course codes will be given in the school course calendar for all courses offered by the school.

Open Courses (O): In disciplines such as the arts, health and physical education, and business studies, all students will take the same type of course, called an open course. Example: HRE1O0 open Religion

Essential Courses (L): Essential courses are available in consultation with the parents, guidance counselor, and special education teacher. Example: ENG1L0 essential English.

Academic Courses (D) In an academic course, you will learn the essential concepts of a subject and explore related material as well. Although your knowledge and skills in the subject will be developed through both theory and practical applications, the emphasis will be on theory and abstract thinking as a basis for future learning and problem solving. Example: ENG1D0 academic English.

Applied Courses (P) An applied course covers the essential concepts of a subject. Knowledge and skills will be developed through both theory and practical applications, but the focus will be on practical applications. In applied courses, familiar, real-life situations will be used to illustrate ideas, and you will be given more opportunities to experience hands-on applications of the concepts you study. Example: ENG1P0 applied English.

Workplace (E) Workplace preparation courses prepare you to move directly into the workplace after high school or to be admitted into apprenticeship programs or other training programs in the community. Courses focus on employment skills and on practical workplace applications of the subject content. Many workplace preparation courses involve cooperative education and work experience placements, which allow students to get first-hand experience in a workplace. Example: MEL3E1 Workplace Mathematics.

University/College (M) University/college preparation courses are offered to prepare you to meet the entrance requirements of certain university and college programs. They focus on both theory and practical applications. Information about the programs for which these courses are designed to prepare you will be available from the guidance or student services staff at your high school. Example HHS4M1 Individuals and Families in Society

College (C) College preparation courses provide you with the knowledge and skills you need to meet the entrance requirements for most college programs. Courses focus on practical applications and also examine underlying theories. Example: MBF3C1 Personal Finance

University (U) University preparation courses provide you with the knowledge and skills you need to meet university entrance requirements. Courses emphasize theoretical aspects of the subject and also consider related applications.

Example: SBI4U1

Course Changes: Once students have selected their courses course changes will be allowed if space and scheduling are possible. Written parental permission is required for all course changes.

ONTARIO SECONDARY SCHOOL DIPLOMA

Students commencing a Secondary School program ON OR AFTER SEPTEMBER 1, 1999, must earn a minimum of 30 credits, distributed as follows:

COMPULSORY CREDITS (TOTAL OF 18)

- 4 English*

- 1 French-as-a-second language
- 3 Mathematics (at least 1 in Grade 11 or 12)
- 2 Science
- 1 Canadian History
- 1 Canadian Geography
- 1 Art
- 1 Health & Physical Education
- .5 Civics
- .5 Career Studies

Plus one credit from each of the following groups:

- 1 additional credit in English, or French as a second language, or a Native language, or a classical or an international language, or Social Sciences and the Humanities or Canadian and World Studies, or guidance and career education, or cooperative education** (Group 1)
- 1 additional credit in Health and Physical Education or the Arts or Business Studies, or cooperative education***, or French as a second language ** (Group 2)
- 1 additional credit in Science (Grade 11 or 12) or Technological Education, or cooperative education***, or French as a second language**, or computer studies (Group 3)
- *A maximum of 3 credits in English as a second language (ESL) or English literacy development (ELD) may be counted towards the compulsory credits in English, but the fourth must be a credit earned for a Grade 12 compulsory English course.
- Substitutions for compulsory courses are available when necessary.

OPTIONAL CREDITS (TOTAL OF 12)

- 12 optional credits from available courses
- 40 Hours Community Service to commence in September of grade 9 and to be completed prior to graduation. 40 Hour Community Involvement Information Manual is available upon request.
- The provincial literacy requirement

***May include up to four credits achieved through Dual Credit courses

A credit is granted in recognition of the successful completion of a course that has been scheduled for a minimum of 110 hours.

The grade nine core curriculum includes courses in: Catholic Studies, English, French, Mathematics, Science, Canadian Geography, Arts, and Physical Education.

RELIGION COURSES

It is the policy of the Windsor-Essex Catholic District School Board that students take a religion course for each year of High School.

ONTARIO SECONDARY SCHOOL CERTIFICATE: (OSSC)

The OSSC will be granted upon request to students who decide to leave before graduating if they have earned a minimum of 14 credits (7 compulsory and 7 optional).

Certificate of Accomplishment:

A certificate of accomplishment will be included with the student's OST. This certificate recognizes student achievement and may be granted to students who have not met either OSSD or OSSC requirements.

Secondary School Literacy Test (OSSLT):

This is a graduation requirement to be administered in Grade 10. It must be successfully completed to meet graduation requirements. The Board will provide remediation and accommodations, deferrals/exemptions where necessary. Support and sample activities can be found through the **Education Quality and Accountability Office (EQAO)** www.eqao.com

ONTARIO SECONDARY SCHOOL LITERACY COURSE**OLC400**

The Ontario Secondary School Literacy Course has been developed to provide students who have been unsuccessful on the test with intensive support in achieving the required reading and writing competencies, and with an alternative means of demonstrating their literacy skills. Students who successfully complete this course will have met the provincial literacy requirement for graduation, and will earn one credit. Eligibility requirement: Students who have been unsuccessful on the OSSLT are eligible to take the course.

Course outlines and Ontario Curriculum Policy documents are available on the Ontario Ministry of

Education website: www.edu.gov.on.ca/

COOPERATIVE EDUCATION

Cooperative Education is a partnership between the school and business/industry where senior students are provided with a learning experience outside the classroom in a community placement. Students usually spend a half-day at the placement and are involved in an experience that compliments in-school learning.

BENEFITS TO THE STUDENT:

- Explore tentative career choices. • Obtain employment references.
- Enhance skills learned in school. • Earn secondary school credits while gaining
- Improve qualifications for future employment. practical experience
- Use equipment not available in schools. • Hands-on learning experience.

COOPERATIVE EDUCATION PLACEMENTS ARE MOST SUITABLE FOR:

- All students who want to enhance their learning through an out-of-school experience.
- Motivated students who wish to enter employment upon graduation.
- Senior students who wish to explore a specific career.
- High-achieving students who want the enrichment of an experience in a work placement.
- Students who wish to explore an alternative method of earning credits.
- All students wishing to gain exposure to the workplace.

ENTRY REQUIREMENTS FOR COOPERATIVE EDUCATION:

- At least 16 years of age and have parent's signature.
- Proper school-related course.
- A suitable placement.
- A suitable timetable.
- Successful interview with Cooperative Education teacher.

- Recommended by teachers at the school.
- Approved or recommended by Vice-Principal as a reliable person who has a good record of attendance, punctuality and appropriate behaviour.

All courses in subject areas offered at the senior level may have Cooperative Education experience attached to them. Any senior level secondary school student is eligible for admission. Two co-operative education (coop) credits can now be used towards their 18 compulsory credits.

- A pathway for a student to earn a High School credit independently
- Available via the internet from anywhere in the world
- Taught by an accredited teacher assigned to the course to guide and support student progress throughout the course

Why try e-Learning?

- Access courses unavailable in your school
- Experience a new way to learn
- Get experience with a popular College / University course for
- Problem solve individual program situations

STEP ONE

Contact your Guidance Counselor for further information.

e-Learning students will:

- Develop skills needed for the 21st century
- Earn the same High School credit as in the face to face class only on the computer

Course offerings

(All courses are subject to student enrolment requirements)

CGW4UV	Canadian & World Issues: A Geographic Analysis, Gr. 12, University Prep
EMS3OV	English Media Studies, Gr.11, Open
ENG4UV	English, Gr. 12, University Prep
EWC4UV	Writer's Craft, Gr. 12, University Prep
HSB4MV	Challenge & Change in Society, Gr. 12, University/College Prep
SPH4UV	Physics, Gr. 12, University Prep

The sixth character (V) in each course code indicates that the course is an on-line, e-Learning course.

Your first step in registering for an on-line course is to consult your Guidance Counselor for further information.



English
ENG 2L
Grade 10 LDCC

Media St.
EMS 30
Grade 11 Open

Experiential Learning

Schools are offering more opportunities to customize your high school experience and build on your strengths and interests through a variety of new and enhance learning options including Experiential Learning. Experiential Learning programs enhance your academic background and provide you with opportunities to gain valuable experiences in our community. No matter your post secondary pathway, experiential learning can assist you in making career decisions and help you develop the knowledge, skills and habits required in the workplace. All forms of experiential learning are a valuable complement to your post secondary preparation and future employment.

Experience / Program	Length	Eligibility / Delivery	Credits	Description	Post Secondary Pathway
Job Shadowing	½ to 1 day	Any grade	N/A	<ul style="list-style-type: none"> • One-on-one observation of a worker at a place of employment • Take Our Kids to Work Day in Grade 9 is prototype of job shadowing • May be incorporated into any credit course • Counts towards the Experiential Learning component requirement for an SHSM 	Apprenticeship College University Work
Job Twinning	½ to 1 day	Any grade	N/A	<ul style="list-style-type: none"> • One-on-one observation of a cooperative education student at his or her placement • May be incorporated into any credit course • Counts towards the Experiential Learning component requirement for an SHSM 	Apprenticeship College University Work
Work Experience	1 – 4 weeks	Any grade	N/A	<ul style="list-style-type: none"> • A planned learning opportunity that provides students with a relatively short-term work experience • May be incorporated into any credit course • Counts towards the Experiential Learning component required for an SHSM 	Apprenticeship College University Work
Co-operative Education Program (Co-op)	1 semester or more usually 0.5 day 1, 2, 3 or 4 credit scheduling options Summer Co-op also available	Grade 11 Grade 12	2 or more	<ul style="list-style-type: none"> • A ministry-approved program that allows students to earn secondary school credits while completing a work placement in any career field • Students can apply 2 co-op credits towards their compulsory high school graduation requirements with not limit on earning potential co-op credits • “Test-drive” career options and gain valuable work experience for postsecondary programs and future employment • 2 credits in co-op are required for an SHSM 	Apprenticeship College University Work

<p align="center">Ontario Youth Apprenticeship Program (OYAP)</p>	<p>1 or 2 year program in senior years</p>	<p>Prerequisite 1 related Technology course Must be 16 years of age Must have 16 credits</p> <p>Grade 11 Grade 12</p>	<p align="center">2 or more</p>	<ul style="list-style-type: none"> • Gain on-the-job training and experience in an apprenticeship in a skilled trade while earning credits towards the Ontario Secondary School Diploma (OSSD) • Accumulate workplace hours that count towards both secondary school co-op credits and the requirements of an apprenticeship program • May have an opportunity to receive Level 1 apprenticeship in-school training or be eligible to write an exemption test for Level 1 • If enrolled in a ministry-approved dual credit program, may earn optional credits towards their OSSD for Level 1 apprenticeship in-school training • May involve the student's registration in an apprenticeship • Apprenticeship opportunities are determined by the demand of local employers in 4 sectors: industrial, motive power, service and construction • Sample occupations included Automotive Service Technician, Truck and Coach Technician, Cook, Hairstylist, Horticulturist, Carpenter, and General Machinist • A student may participate in OYAP as part of an SHSM program 	<p align="center">Apprenticeship College</p>
<p align="center">School-Work Co-op Program</p>	<p>1 or 2 year program in senior years</p>	<p>Grade 11 Grade 12</p>	<p align="center">2 or more</p>	<ul style="list-style-type: none"> • For students who are planning to enter the workplace after graduation • Any area of work NOT requiring formal post-secondary education • A student may participate in School-Work Co-op as part of an SHSM program 	<p align="center">Work</p>

For further information or to apply to any of these programs, contact your Guidance Counselor or school's Co-op teacher

Earn Two Credits For One Course With Dual Credit Offerings At St. Clair College

What is a dual credit program?

Dual credit programs allow senior students the opportunity to earn high school and college credits at the same time. Students attend one of St. Clair College's campuses for either a full or half day once a week for approximately a fifteen week period. This unique arrangement allows you, the student, the chance to experience life and learning in a college environment and allows you to fast track towards your post secondary goals.

Examples of dual credit offerings include: Radio Reporting, Photojournalism, Basic Carpentry Skills, Electrical Installation, Intro to Early Childhood Education, Baking & Pastry Arts, Pedicures, Basic Welding Process and Fabricating.

A maximum of 4 college-delivered dual credits can be counted as optional credits towards the Ontario Secondary School Diploma (OSSD). Dual Credits cannot be used as substitutions for compulsory credit requirements.

What does it cost?

You pay nothing. All books, transportation and tuition are paid for through grants from the School College Work Initiative (SCWI). SCWI is a collaborative partnership between the Ministry of Education and the Ministry of Training, Colleges and Universities.

What makes a student eligible?

Dual credit programs are intended to assist secondary school students in the completion of their OSSD and provide a successful transition to college and apprenticeship programs. As well, students in Specialist High Skills Major (SHSM) programs and the Ontario Youth Apprenticeship Programs (OYAP) are eligible to enroll. Enrolment in half or full day Co-op allows greater flexibility to participate.

How do I apply?

You must be referred to the program through your School Student Success Team. St. Clair College Will not accept applications directly.

If I am a student in Windsor, can I take a course at the Chatham Campus?

YES, transportation will be provided if you wish to enroll in Chatham courses.

To find out what dual credit offerings are available and to take advantage of this great opportunity, contact your Guidance counselor or Co-op teacher.

Specialist High Skills Major

Student Success is about meeting the individual learning needs of each and every student. Schools are providing students with more opportunities to customize their high school experience and build on their strengths and interests through a variety of new and enhanced learning options. One of those options is the new Specialist High Skills Major.

What is a Specialist High Skills Major (SHSM)?

- The SHSM is a ministry-approved specialized program that allows students to focus their learning on a specific economic sector while meeting the requirements for the Ontario Secondary School Diploma (OSSD) and assists in their transition from secondary school to apprenticeship training, college, university, or the workplace.
- An SHSM enables students to gain sector-specific skills and knowledge in the context of engaging, career-related learning environments and helps them focus on graduation and on pursuing their postsecondary goals.
- Every SHSM must include the following five components, which are outlined in detail in individual guides for each sector:
 1. A bundle of 8-10 Grade 11 and Grade 12 credits that includes:
 - i) 4 major credits that provide sector-specific knowledge and skills
 - ii) 2-4 other required credits from the Ontario curriculum, in which some expectations are met through learning activities contextualized to the sector
 - iii) 2 cooperative education credits that provide authentic learning experiences in a workplace setting, enabling students to refine, extend, and practice sector-specific knowledge and skills
 2. Sector-recognized certifications and/or training courses
 3. Experiential learning and career exploration activities within the sector
 4. "Reach ahead" experiences connected with the student's chosen postsecondary pathway
 5. Development of Essential Skills and work habits required in the sector, and the use of the Ontario Skills Passport (OSP) for purposes of documentation

If you have questions talk to your guidance councillor or the following lead teachers:

Energy
Environment

Mrs. VanBeek – Rm. 162
Mrs. VanBeek – Rm. 162

St Anne - Environment

Course Choices	Apprenticeship	College	University	Workplace
Grade 11 Majors		CGF3M	SBI3U	CGG3O
	CGG3O	SBI3C	SCH3U	SVN3E
	SBI3C	SVN3M	HRT3M	HRF3O
	SVN3E		CGF3M	TCJ3E
	HRF3O	HRT3M	TDJ3M	
	TCJ3E	TCJ3C		
	TCJ3C			PPL3O
	TDJ3O	TDJ3M		TDJ3O
Grade 12 Majors		CGR4M	CGR4M	PPL4O
	SCH4C	SCH4C	CGW4U	TCJ4E
	TCJ4E		CLN4U	
	TCJ4C	TCJ4C	SBI4U	
	TDJ4O	TDJ4M	SCH4U	TDJ4O
		THN4T *	SES4U	
	PPL4O	TDC4T *	PSE4U	
English	ENG3E	ENG3C	ENG3U	ENG3E
	ENG3C	ENG4C	ENG4U	ENG4E
	ENG4E			
	ENG4C			
Math	MBF3C	MBF3C	MCR3U	MEL3E
	MEL3E	MCF3M	MCF3M	
Co-operative Education	minimum of 2 periods (placement equivalent)		minimum of 2 periods (placement equivalent to 2 credits or half day) of co-op	minimum of 2 periods (placement equivalent to 2 credits or half day) of co-op

	<div style="text-align: center;">i v a l e n t</div> to 2 credits or half day) of c-op			
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THN4T Environmental Awareness, TDC4T Environmental Design, THC4T Horticulture Science are dual credit courses

ST. ANNE COMMUNICATION AND INFORMATION TECHNOLOGY

Courses	Apprenticeship	College	University	Workplace
Grade 11 Majors	TGP3M	TGJ3M	TGJ3M	
	TGJ3O	TGV3M	TGV3M	TGJ3O
	TDJ3O	TEJ3M	TEJ3M	TEJ3E
	TGV3M	TGG3M	TGG3M	TDJ3O
	TEJ3E	TDJ3M	TDJ3M	
	TDJ3M	ICS3C	ICS3U	
	TGI3M	TGP3M	TGP3M	
	ICS3C	TGI3M	TGI3M	
Grade 12 Majors	TGP4M	TGJ4M	TGJ4M	
	TGJ4O	TGV4M	TGV4M	TGJ4O
	TGV4M	TGG4M	TGG4M	TDJ4O
	TDJ4M	TDJ4M	TDJ4M	
	TEJ4E	TEJ4M	TEJ4M	TEJ4E
	TGI4M	TGP4M	TGP4M	
	ICS4C	ICS4C	ICS4U	
	TDJ4O	JGH4T *		
		IBD4T *		
	TGH4T *			
English	ENG4C	ENG4C	ENG4U	ENG4E
	ENG4E			
Math	MEL3E	MCF3M	MCF3M	MEL3E

	MBF3C	MBF3C	MCR3U	
Art, Business or Science		AVI3M	AVI3M	
		AVI4M	AVI4M	BTA3O
	BDI3C	BAF3M	BAF3M	SVN3E
	BTA3O	BDI3C	BAT4M	EMS3O
	SVN3E	SCH4C	BOH4M	
	SBI3C	SBI3C	BBB4M	
	EMS3O	BBB4M	SBI4U	
		BMI3C	SCH3U	
		ADA3M	SPH3U	
			SBI3U	
		ADA3M		
Co- operative Education	minimum of 2 periods of co-op.	minimum of 2 periods of co-op.	minimum of 2 periods of co-op	minimum of 2 periods of co-op

(*).JGH4T, IBD4T and TGH4T are Dual Credit courses offered at St. Clair College to senior students. Upon completion student will credit for high school and St. Clair College. The high school credit is good toward your OSSGD and SHSM gr. 12 major credit.

Course Choices	Apprenticeship	College	University	Workplace
Grade 11 Majors	TEJ3E	TEJ3M	TEJ3M	TEJ3E
	TCJ3C	TCJ3C	SPH3U	TCE3E
	TCJ3E			TCJ3E
	TCE3E		SCH3U	
	TDJ3O	TDJ3M	TDJ3M	TDJ3O
	TMJ3E	TMJ3M	TMJ3M	TMJ3E
	TMJ3C	TMJ3C		
Grade 12 Majors	TEJ4E	TEJ4M	TEJ4M	TEJ4E
	TEJ4M	TCJ4C	TDJ4M	TCE4E
	TCE4E	SPH4C	SPH4U	TCJ4E
	TCJ4C	SCH4C	SCH4U	
	TDJ4O	TDJ4M	SES4U	TDJ4O
	SPH4C	TMJ4C		
	TMJ4E	TMJ4M	TMJ4M	TMJ4E
	TMJ4C	TNK4T *		
	THN4T *			
English	ENG4C	ENG4C	ENG4U	ENG4E
	ENG4E			
Math	MEL3E	MCF3M	MCF3M	MEL3E
	MBF3C	MBF3C	MCR3U	
Science or Business or Cdn. Studies	SVN3E	SVN3M	SVN3M	SVN3E
	SCH4C	SCH4C	SES4U	BTA3O
	BMI3C	BAF3M	BBB4M	
	BTA3O	BDI3C	BAF3M	
	BDI3C	BAT4M	BAT4M	
	BOH4M	BOH4M		
Co-operative Education	minimum of 2 periods (placement equivalent to 2 credits or half day) of co-op.	minimum of 2 periods (placement equivalent to 2 credits or half day) of co-op.	minimum of 2 periods (placement equivalent to 2 credits or half day) of co-op	minimum of 2 periods (placement equivalent to 2 credits or half day) of co-op

ST. ANNE ENERGY

Requested TDA3M, TDA4M, TTA3C, TTA 4C as part of the pathway – pending approval
 *TNK4T Electrical Installation Practices 1 and THN4T Environmental Awareness are Dual Credit courses