



## St. Theresa's iPlan 2017-2018

### ***Courses at a Glance***

#### **Grade 9**

HRE10: Religious Education: "Be With Me", Grade 9, Open  
ADA10: Dramatic Arts, Grade 9, Open  
AMU10: Music, Grade 9, Open  
AVI10: Visual Arts, Grade 9, Open  
CGC1D: Geography of Canada, Grade 9, Academic  
CGC1P: Geography of Canada, Grade 9, Applied  
HFN10: Food and Nutrition, Grade 9 Open  
ENG1D: English Grade 9 Academic  
ENG1P: English Grade 9 Applied  
ENG1L: English Grade 9, Locally Developed, Compulsory Credit Course  
FSF1D: Core French, Grade 9, Academic  
FSF1P: Core French Grade 9, Applied  
GLE1OG: Learning Strategies 1: Skills for Success in Secondary School, Grade 9 Open  
GLS1O: I CAN Learning Strategies for Math, Grade 9, Open  
PPL1O (F/M): Healthy Active Living Education, Grade 9, Open, Female or Male  
PAI1O/PAF1O: Hockey Canada Skills Academy, Grade 9 Open  
MPM1D: Principles of Mathematics, Grade 9, Academic  
MFM1P: Foundations of Mathematics, Grade 9, Applied  
MAT1L: Mathematics, Grade 9, Locally Developed, Compulsory Credit Course  
SNC1D: Science, Grade 9, Academic  
SNC1P: Science, Grade 9, Applied  
SNC1L: Science, Grade 9, Locally Developed, Compulsory Credit Course  
TIJ1OC: Exploring Computer and Communication Technology, Grade 9, Open  
TIJ1OS: Exploring Transportation and Manufacturing Technology, Grade 9, Open  
TIJ1OH: Exploring Personal Health and Wellness, Grade 9, Open

#### **Grade 10**

HRE20: Religious Education: "Christ and Culture", Grade 10, Open  
ATC20: Dance, Grade 10, Open  
ADA20 (ADA2O1): Dramatic Arts, Grade 10, Open  
AMG20: Guitar Music, Grade 10, Open  
AVI20 (AVI2O1): Visual Arts, Grade 10, Open  
BBI20: Introduction to Business, Grade 9 or 10, Open  
CHC2D: Canadian History Since World War I, Grade 10, Academic  
CHC2P: Canadian History Since World War I, Grade 10, Applied  
CHC2L: Credit Course, Canadian History, Grade 10, Locally Developed Compulsory  
CHV20: Civics, Grade 10, Open  
ENG2P: English, Grade 10, Applied  
ENG2D: English Grade 10, Academic  
ENG2L: English, Grade 10, Locally Developed Compulsory Credit Course  
FSF2D: Core French, Grade 10, Academic

GLC2O: Career Studies, Grade 10, Open  
PAF2O: Personal Fitness, Grade 10 Open  
PPL2O/M: Healthy Active Living Education, Grade 10, Open (Male Only)  
PAI2OF: Live Fit, Grade 10 Open, Female Only  
MPM2D: Principles of Mathematics, Grade 10, Academic  
MFM2P: Foundations of Mathematics, Grade 10, Applied  
MAT2L: Mathematics, Grade 10, Locally Developed Compulsory Credit Course  
NAC2O: Aboriginal Peoples in Canada, Grade 10, Open  
SNC2D: Science Grade 10, Academic  
SNC2P: Science, Grade 10, Applied  
SNC2L: Science, Grade 10, Locally Developed Compulsory Credit Course  
TEJ2O: Computer Engineering, Grade 10, Open  
TGJ2O: Communication Technology, Grade 10, Open  
TCJ2O: Construction Technology, Grade 10, Open  
TFJ2O: Hospitality and Tourism Technology, Grade 10, Open  
TMJ2O: Manufacturing, Grade 10, Open  
TXJ2O: Hairstyling and Aesthetics, Grade 10, Open  
TTJ2O: Transportation Technology, Grade 10, Open

## **Grade 11**

HRT3M: Religious Education: "Faith and Culture: World Religions", Grade 11, University/College  
HRF3O: Religious Education: "Faith and Culture: World Religions", Grade 11, Open  
ATC3M: Dance, Grade 11, University/College Preparation  
ADA3M: Dramatic Arts, Grade 11, University/College Preparation  
AMU3M: Music, Grade 11, University/College  
AMG3O: Guitar Music, Grade 11, Open  
AMM3M: Music and Computers, Grade 11, University/College Preparation  
AMV3M: Vocal Music, Grade 11, University/College Preparation  
AVI3M: Visual Arts, Grade 11, University/College  
AVI3O: Visual Arts, Grade 11, Open  
AWQ3O (AWQ3M): Visual Arts Photography, Grade 11, Open or University/College  
AWD3M (AWD4M): Visual Arts Applied Design, Grade 11/12, University/College  
BAF3M: Financial Accounting Fundamentals, Grade 11, University/College  
BDP3O: Entrepreneurship: The Enterprising Person, Grade 11, Open  
CGG3O: Travel and Tourism: A Regional Geographic Perspective, Grade 11, Open  
CHA3U: American History, Grade 11, University  
CLU3M: Understanding Canadian Law, Grade 11, University/College  
HPC3O: Raising Healthy Children, Grade 11, Open  
HSP3U: Introduction to Anthropology, Psychology, and Sociology, Grade 11, University/College  
IDC3OA: History of Popular Music, Grade 11, Open  
EMS3O: Journalism, Grade 11, Open  
ENG3U: English, Grade 11, University  
ENG3C: English, Grade 11, College  
ENG3E: English, Grade 11, Workplace  
FSF3U: Core French, Grade 11, University  
GPP3OG: Leadership and Peer Support  
GWL3OX2: Designing Your Future, Grade 11 or 12, Open

PPL3O: Healthy Active Living Education, Grade 11, Open, Co-Ed  
PAD3O: Lifestyle, Fitness and Leisure Activities, Grade 11, Co-Ed  
PAI3OF: Live Fit, Grade 11, Open (Female Only)  
IDP3O: Aquatics and Leadership, Grade 11, Open (Two Credit, Night School)  
MCR3U: Functions, Grade 11, University  
MCF3M: Function and Applications, Grade 11, University/College  
MBF3C: Foundations for College Mathematics, Grade 11, College  
MEL3E: Mathematics for Work and Everyday Life, Grade 11, Workplace  
SBI3U: Biology, Grade 11, University  
SBI3C: Biology, Grade 11, College  
SCH3U: Chemistry, Grade 11, University  
SPH3U: Physics, Grade 11, University  
TGJ3M: Communications Technology, Grade 11, University/College  
IDC3OT: Interdisciplinary Studies – Design Technology, Grade 11, Open  
ICS3U: Introduction to Computer Science, Grade 11, University  
ICS3C: Introduction to Computer Programming, Grade 11, College  
TEJ3E: Computer Technology, Grade 11, Workplace  
TEJ3M: Computer Engineering Technology, Grade 11, University/College  
TCJ3E: Construction Technology, Grade 11, Workplace  
TWJ3E: Custom Woodworking, Grade 11, Workplace  
TFJ3C: Hospitality and Tourism, Grade 11, College  
TFB3E: Hospitality and Tourism – Baking Focus, Grade 11, Workplace  
TMJ3E: Manufacturing Technology, Grade 11, Workplace  
TTJ3C: Transportation Technology, Grade 11, College  
TXJ3E: Hairstyling and Aesthetics, Grade 11, Workplace Preparation

## **Grade 12**

HRE4M: Religious Education: “Church and Culture”, Grade 12, University/College  
HRE4O: Religious Education: “Church and Culture”, Grade 12, Open  
ATC4M: Dance, Grade 12, University/College  
ADD4M: Dramatic Arts – Play Production, Grade 12, University/College  
AMU4M: Music, Grade 12, University/College  
AMV4M: Vocal Music, Grade 12, University/College  
AMD4M: Music and Computers, Grade 12, University/College Preparation  
AVI4M: Visual Arts, Grade 12, University/College  
AWQ4M: Visual Arts Photography, Grade 12, University/College  
AWD4M: Visual Arts – Applied Design, Grade 11/12, University/College  
BAT4M: Financial Accounting Principles, Grade 12, University/College  
BBB4M: International Business Fundamentals, Grade 12, University/College  
BOH4M: Business Leadership: Management Fundamentals, Grade 12, University/College  
CGW4U: Canadian and World Issues: A Geographic Analysis, Grade 12, University  
CHY4U: World History: The West and the World, Grade 12, University **NOT OFFERED Until 2018-2019**  
CLN4U: Canadian and International Law, Grade 12, University  
LVV4U: Classical Civilization, Grade 12, University  
HIP4O: Personal Life Management  
HSB4U: Challenge and Change in Society, Grade 12, University Preparation  
HHS4U: Individuals and Families in Diverse Society, Grade 12, University

HZT4U: Philosophy: Questions and Theories, Grade 12, University  
ENG4U: English, Grade 12, University  
ENG4C: English, Grade 12, College  
ENG4E: English Grade 12, Workplace  
EWC4U: The Writer's Craft, Grade 12, University  
OLC4O: Ontario Secondary School Literacy Course, Grade 12  
FSF4U: Core French, Grade 12, University  
IDC4UP: Interdisciplinary Studies, Peer Tutoring, Grade 12, University  
IDC4UL: Interdisciplinary Studies, Athletic Leadership, Grade 12, University  
PPL4O: Healthy and Active Living Education, Grade 12, Open, Co-Ed  
PSE4U: Exercise Science, Grade 12, University  
PAF4O: Personal Fitness and Weight Training, Grade 12, Open (Co-Ed)  
PAD4O: Lifestyle, Fitness and Leisure Activities, Grade 12, Open (Co-Ed)  
PAI4OF: Live Fit, Grade 12, Open (Female Only)  
MFH4U: Advanced Functions, Grade 12, University  
MCV4U: Calculus and Vectors, Grade 12, University  
MDM4U: Mathematics of Data Management, Grade 12, University  
MCT4C: Mathematics for College Technology, Grade 12, College  
MAP4C: Foundations for College Mathematics, Grade 12, College  
MEL4E: Mathematics for Work and Everyday Life, Grade 12, Workplace  
SBI4U: Biology, Grade 12, University  
SCH4U: Chemistry, Grade 12, University  
SCH4C: Chemistry, Grade 12, College  
SPH4U: Physics, Grade 12, University  
SPH4C: Physics, Grade 12, College  
TGJ4M: Communications Technology, Grade 12, University/College  
ICS4U: Computer Programming, Grade 12, College  
TCJ4E: Construction Technology, Grade 12, Workplace  
TWJ4E: Custom Woodworking, Grade 12, Workplace  
TFJ4C: Hospitality and Tourism, Grade 12, College  
TTJ4C: Transportation Technology, Grade 12, College  
TTJ4E: Transportation Technology, Grade 12, Workplace  
TXJ4E: Hairstyling and Aesthetics, Grade 12, Workplace Preparation

# Course Descriptions

## RELIGIOUS EDUCATION

### **HRE10**

Religious Education: "Be With Me"

Grade 9 Open

This course invites students to a deeper understanding of both the joy and the demands of following in the way of Christ and living out the call to discipleship as it is described in the Scriptures. Using the Beatitudes as a touchstone, students examine the attitudes and actions that characterize the Christian life. Students will explore a variety of topics related to the themes of personhood, interpersonal relationships and sexuality. They are encouraged to understand and nurture within themselves the virtues which will enable them to deepen their relationship with God in and through Christ in the context of a Spirit filled community.

Prerequisite: None

### **HRE20**

Religious Education: "Christ and Culture"

Grade 10 Open

This course both invites and challenges the adolescent to personalize the principles that guide Catholics in understanding their role in shaping culture through our discipleship. The exploration of these principles starts with the Scriptural foundations to the questions of what it means to be human and how God has and continues to shape our humanity through culture. The principles are then developed through the Gospel themes that reveal how Jesus' Kingdom of God is expressed in all of our relationships: to ourselves, to others, to our civil society, to our Church, and to our Global community. Prerequisite: None

### **HRT3M**

Religious Education: "Faith and Culture: World Religions"

Grade 11 University/College

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 inter-religious 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.

Prerequisite: Grade 10 Open Religion or Grade 10 Academic English

**HRF30**

Religious Education: "Faith and Culture: World Religions"

Grade 11 Open

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 how they are expressed through ecumenical and inter-religious dialogue. Within a historic and 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

**HRE4M**

Religious Education: "Church and Culture"

Grade 12 University/College

This course has the aim of assisting students in understanding themselves as moral persons living the way of Christ through an examination of ethical theories, the revelation of sacred Scripture, and the experience and teaching of the Catholic Church. While grounded in Revelation, the course also examines the contributions of Philosophy and the sciences to a Catholic understanding of ethics and moral living. Students will explore their own ethical and moral stance through an examination of various arenas of life such as issue of justice and peace, freedom, reconciliation, family, marriage and political life. This course is intended to prepare the senior student for the lifelong task of discerning what is good and of God while growing in their ability to live accordingly as moral persons and active, life giving members of a global society.

Prerequisite: Grade 11 University Religion or Grade 11 University English

**HRE4O**

Religious Education: "Church and Culture"

Grade 12 Open

This course has the aim of assisting students in understanding themselves as moral persons living the way of Christ through an examination of ethical theories, the revelation of sacred Scripture, and the experience and teaching of the Catholic Church. It engages students in critical reflection on significant contemporary moral and ethical issues in light of Scripture, Church teaching, and important thinkers. Social and ecological justice issues are explored along with a study of topics that focus on Christian mercy and forgiveness. The graces and challenges of relationships, marriage, and family life are explored from a Catholic perspective. Students are challenged to articulate and adopt the Christian stance in the political world.

Prerequisite: None

## **THE ARTS**

### **ATC20**

Dance

Grade 10, Open

This course emphasizes the development of students' technique and creative skills relating to the elements of dance and the tools of composition in a variety of performance situations. Students will identify responsible personal and interpersonal practices related to dance processes and production, and will apply technologies and techniques throughout the process of creation to develop artistic scope in the dance arts.

Prerequisite: None

### **ATC3M**

Dance

Grade 11, College/University

This course emphasizes the development of students' artistry, improvisational and compositional skills, and technical proficiency in dance genres from around the world. Students will apply dance elements, techniques, and tools in a variety of ways, including performance situations; describe and model responsible practices related to the dance environment; and reflect on how the study of dance affects personal and artistic development.

Prerequisite: Dance, Grade 10, Open

### **ATC4M**

Dance

Grade 12, University/College Preparation

This course emphasizes the development of students' technical proficiency, fluency in the language of movement in dance genres from around the world, and understanding of dance science. Students will explain the social, cultural, and historical contexts of dance; apply the creative process through the art of dance in a variety of ways; and exhibit an understanding of the purpose and possibilities of continuing engagement in the arts as a lifelong learner.

Prerequisite: Dance, Grade 11, University/College Preparation

### **ADA10**

Dramatic Arts

Grade 9, Open

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

Prerequisite: None

**ADA20/ADA201**

Dramatic Arts

Grade 10, Open

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

Prerequisite: ADA10 for ADA20, None for ADA201

**ADA3M**

Dramatic Arts

Grade 11, University/College

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

Prerequisite: Drama, Grade 9 or 10, Open

**ADD4M**

Dramatic Arts Play Production

Grade 12, University/College

This course requires students to experiment individually and collaboratively with forms and conventions of both drama and theatre from various cultures and time periods. Students will interpret dramatic literature and other texts and media sources while learning about various theories of directing and acting. Students will examine the significance of dramatic arts in various cultures, and will analyse how the knowledge and skills developed in drama are related to their personal skills, social awareness, and goals beyond secondary school. Students will focus their work on the various aspects of performance and presentation of dramatic material; including playwriting, acting, directing, set design, lighting, costumes, stage and technical management, and marketing.

Prerequisite: Drama, Grade 11, University/College Preparation

**AMU10**

Music

Grade 9, Open

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

Prerequisite: None



**AMU20/AMU201**

Music

Grade 10, Open

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

Prerequisite: AMU10 for AMU20, None for AMU201

**AMU3M**

Music

Grade 11, University/College

This course provides students with opportunities to develop their musical literacy through the creation, appreciation, analysis, and performance of music, including traditional, commercial, and art music. Students will apply the creative process when performing appropriate technical exercises and repertoire and will employ the critical analysis processes when reflecting on, responding to, and analysing live and recorded performances. Students will consider the function of music in society and the impact of music on individuals and communities. They will explore how to apply skills developed in music to their life and careers.

Prerequisite: Music, Grade 9 or 10, Open

**AMU4M**

Music

Grade 12, University/College Preparation

This course enables students to enhance their musical literacy through the creation, appreciation, analysis, and performance of music. Students will perform traditional, commercial, and art music, and will respond with insight to live and recorded performances. Students will enhance their understanding of the function of music in society and the impact of music on themselves and various communities and cultures. Students will analyse how to apply skills developed in music to their life and careers.

Prerequisite: Music, Grade 11, University/College Preparation

**AMG20**

Guitar Music

Grade 10, Open

Come and learn how to play the guitar! This course emphasizes the performance of music at an intermediate level (simple chords, bar chords, Tab, notation & picking) that will strike a balance between challenge and skill. Student learning will include participating in the learning of classic rock, blues, country & pop music. Through the utilization of individual computer work stations, students will also be given the opportunity to record and produce their own music! Students will be required to develop a thorough understanding of the language of music, including the elements, basic theory, terminology, and history.

Prerequisite: None

Note: Students will need their own guitar to register in this course.

**AMG30**

Music: Guitar

Grade 11, Open

As a continuation of the grade 10 guitar program, this course emphasizes the performance of music at an intermediate level with an emphasis on complex chord structures (open & Bar chords). Students will investigate popular chord progressions, blues patterns & scales as well as more complex strumming and picking patterns for various styles of music (classic rock, blues, country & pop music). Student learning will include participating in creative activities, listening perceptively, developing a thorough understanding of the language of music, including elements, terminology and history. Students will also be given the opportunity to record and produce their own music! Through the medium of music, students will come to know the harmonious relationship between the secular and the sacred.

Prerequisite: AMG20 or permission of the instructor

Note: Students will need their own guitar to register in this course.

**AMV3M**

Vocal Music

Grade 11, University/College Preparation

This course provides students with opportunities to develop their musical literacy through the creation, appreciation, analysis, and performance of music, including traditional, commercial, and art music. Students will apply the creative process when performing appropriate technical exercises and repertoire and will employ the critical analysis processes when reflecting on, responding to, and analysing live and recorded performances. Students will consider the function of music in society and the impact of music on individuals and communities. They will explore how to apply skills developed in music to their life and careers. This course focuses on the practices and creation of vocal music.

Prerequisite: Music, Grade 9 or 10, Open

**AMV4M**

Vocal Music

Grade 12, University/College Preparation

This course enables students to enhance their musical literacy through the creation, appreciation, analysis, and performance of music. Students will perform traditional, commercial, and art music, and will respond with insight to live and recorded performances. Students will enhance their understanding of the function of music in society and the impact of music on themselves and various communities and cultures. Students will analyse how to apply skills developed in music to their life and careers. This course focuses specifically on vocal music.

Prerequisite: Vocal Music, Grade 11, University/ College Preparation

**AMM3M**

Music and Computers

Grade 11, University/College

This course provides students with opportunities to develop their musical literacy through the creation, appreciation, analysis, and performance of music, including traditional, commercial, and art music. Students will apply the creative process when performing appropriate technical exercises and repertoire and will employ the critical analysis processes when reflecting on, responding to, and analysing live and recorded performances. Students will consider the function of music in society and the impact of music on individuals and communities. They will explore how to apply skills developed in music to their life and careers. This course develops students' artistic knowledge and skills through the performance of music and the preparation of music productions.

Prerequisite: Music, Grade 9 or 10, Open

**AMD4M**

Music and Computers

Grade 12, University/College Preparation

This course enables students to enhance their musical literacy through the creation, appreciation, analysis, and performance of music. Students will perform traditional, commercial, and art music, and will respond with insight to live and recorded performances. Students will enhance their understanding of the function of music in society and the impact of music on themselves and various communities and cultures. Students will analyse how to apply skills developed in music to their life and careers. This course will provide students with the opportunity to explore and express themselves through the medium of music; and they will plan, market and produce music productions, making use of appropriate technology and evaluating the results.

Prerequisite: Any Senior University/College Music Course

**AVI10**

Visual Arts

Grade 9, Open

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

Prerequisite: None

**AVI20/AVI201**

Visual Arts

Grade 10, Open

This course enables students to develop their skills in producing and presenting art by introducing them to new ideas, materials, and processes for artistic exploration and experimentation. Students will apply the elements and principles of design when exploring the creative process. Students will use the critical analysis process to reflect on and interpret art within a personal, contemporary, and historical context.

Prerequisite: AVI10 for AVI20, None for AVI201

**AVI3M**

Visual Arts

Grade 11, University/College Preparation

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

Prerequisite: Visual Arts, Grade 9 or 10, Open

**AVI30**

Visual Arts

Grade 11, Open

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

Prerequisite: None

**AVI4M**

Visual Arts

Grade 12, University/College Preparation

This course focuses on enabling students to refine their use of the creative process when creating and presenting two- and three-dimensional art works using a variety of traditional and emerging media and technologies. Students will use the critical analysis process to deconstruct art works and explore connections between art and society. The studio program enables students to explore a range of materials, processes, and techniques that can be applied in their own art production. Students will also make connections between various works of art in personal, contemporary, historical, and cultural contexts.

Prerequisite: Visual Arts, Grade 11, University/College Preparation

**AWQ30/3M**

Visual Arts Photography

Grade 11, Open

This course focuses on studio activities in one or more of the visual arts, including drawing, painting, sculpture, photography, printmaking, collage, and/or multimedia art. Students will use the creative process to create art works that reflect a wide range of subjects and will evaluate works using the critical analysis process. Students will also explore works of art within a personal, contemporary, historical, and cultural context. The focus of this course is the introduction to the field of photography and will allow students to improve technical skills while pursuing their own creative interests.

Prerequisite: None

**IDC30A**

History of Popular Music

Grade 11, Open

This course explores the history and different types of popular music in Western culture, from the rise of rock n' roll in the 1950's to the start of alternative music in the 1990's. By learning about different types of music including rock n' roll, hip hop/rap, heavy metal, punk, disco, and folk, students will gain a greater knowledge of history, as it affects and is affected by popular music. From Elvis to The Beatles, from Iron Maiden to Run DMC, and from The Ramones to Nirvana, students will learn to understand the history of popular music in terms of changes in both musical techniques and social values. Students will be expected to listen closely to music selections, view live concert and video footage on a daily basis, complete research and hands-on creative assignments, and contribute to class discussions.

Prerequisite: None

Note: No previous background in music is required.

**AWQ4M**

Visual Arts Photography

Grade 12, University/College

This course focuses on enabling students to refine their use of the creative process when creating and presenting two- and three-dimensional art works using a variety of traditional and emerging media and technologies. Students will use the critical analysis process to deconstruct art works and explore connections between art and society. The studio program enables students to explore a range of materials, processes, and techniques that can be applied in their own art production. Students will also make connections between various works of art in personal, contemporary, historical, and cultural contexts. The focus of this course is to build on the basic skills developed in AWQ30/3M with the culminating creation of a professional portfolio for post-secondary education or a career in photography.

Prerequisite: Any Senior University/College Visual Art Course

**AWD3M or AWD4M**

Visual Arts Applied Design

Grade 11/12, University/College

This course focuses on enabling students to refine their use of the creative process when creating and presenting two- and three-dimensional art works using a variety of traditional and emerging media and technologies. Students will use the critical analysis process to deconstruct art works and explore connections between art and society. The studio program enables students to explore a range of materials, processes, and techniques that can be applied in their own art production. Students will also make connections between various works of art in personal, contemporary, historical, and cultural contexts. Students enrolled in AWD3M plan and format the current yearbook; AWD4M students will finish the current yearbook and produce material for the following year.

Prerequisite: None for AWD3M, AWD3M for AWD4M. Note: This course can also be used to fulfill a technology requirement.

**BUSINESS STUDIES****BB120**

Introduction to Business

Grade 9 or 10, Open

This course introduces students to the world of business. Students will develop an understanding of the functions of business, including accounting, marketing, information and communication technology, human resources, and production, and of the importance of ethics and social responsibility. This course builds a foundation for further studies in business and helps students develop the business knowledge and skills they will need in their everyday lives.

Prerequisite: None

**BAF3M**

Financial Accounting Fundamentals

Grade 11, University/College Preparation

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

Prerequisite: None

**BAT4M**

Financial Accounting Principles

Grade 12, University/College Preparation

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 expands students' knowledge of sources of financing, further develops accounting methods for assets, and introduces accounting for partnerships and corporations.

Prerequisite: BAF3M

**BDP3O**

Entrepreneurship: The Enterprising Person

Grade 11, Open

This course examines the importance of enterprising employees in today's changing business environment. Students will learn about the skills and attributes of enterprising employees, the distinguishing features of their work environments, and the challenges and rewards of becoming an enterprising person. Students will also have an opportunity to demonstrate and develop enterprising skills by planning and organizing a school or community event.

Prerequisite: None

**BBB4M**

International Business Fundamentals

Grade 12, University/College Preparation

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

Prerequisite: None

**BOH4M**

Business Leadership: Management Fundamentals

Grade 12, University/College Preparation

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

Prerequisite: None

**CANADIAN AND WORLD STUDIES****CGC1D**

Geography of Canada

Grade 9, Academic

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

Prerequisite: None

**CGC1P**

Geography of Canada

Grade 9, Applied

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

Prerequisite: None

**CHC2D**

Canadian History Since World War I

Grade 10, Academic

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



**CHC2P**

Canadian History Since World War I

Grade 10, Applied

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

Prerequisite: None

**CHC2L**

Canadian History

Grade 10, Locally Developed Compulsory Credit Course

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

Prerequisite: None

Note: Entry into this course requires recommendation from the Special Education Resource Teacher.

**CHV2O**

Civics

Grade 10, Open

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.

Prerequisite: None

### **CGG30**

Travel and Tourism: A Regional Geographic Perspective

Grade 11, Open

This course focuses on travel and tourism as the vehicle for studying 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: CGC1D or CGC1P

### **CGW4U**

Canadian and World Issues: A Geographic Analysis

Grade 12, University Preparation

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

### **CHA3U**

American History

Grade 11, University

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: CHC2D or CHC2P

### **CHY4U**

World History: The West and the World **(ONLY OFFERED IN 2018-2019)**

Grade 12, University Preparation

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.

### **CLU3M**

Understanding Canadian Law

Grade 11, University/College Preparation

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: CHC2D or CHC2P

### **CLN4U**

Canadian and International Law

Grade 12, University Preparation

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: CLU3M

### **LVV4U**

Classical Civilization

Grade 12, University Preparation

This course allows students to explore the beliefs and achievements of the classical world, which have shaped Western thought and civilization. Students will investigate such aspects of classical culture as its mythology, art, literature, and philosophy, as well as elements of ancient Greek and Latin, through a variety of activities such as dramatizations, audio-visual presentations, and discussions. By reading classical authors in English and examining archaeological evidence, students will enhance both their communication skills and their ability to think critically and creatively.

Prerequisite: ENG2D or ENG2P

Note: This course will not be offered in the 2016-2017 school year.

## **NATIVE STUDIES**

### **NAC2O**

Aboriginal Peoples in Canada

Grade 10, Open

This course emphasizes historical and contemporary issues that affect the relationship between Aboriginal peoples and Canadian governments. Students will examine legal, political, social, and economic issues; key aspects of the Indian Act and its revisions that have an impact on the daily lives of Aboriginal persons; the different types of relationships that Aboriginal peoples have established with other nations throughout history; and the methodology of historical inquiry.

Prerequisite: None

## **SOCIAL STUDIES AND HUMANITIES**

### **HFN10**

Food and Nutrition

Grade 9, Open

This course explores the factors that affect attitudes and decisions about food, examines current issues of body image and food marketing, and is grounded in the scientific study of nutrition. Students will learn how to make informed food choices and how to prepare foods, and will investigate our Canadian food heritage and food industries, as well as global food issues. The course also introduces students to research skills related to food and nutrition.

Prerequisite: None

### **HPC30**

Raising Healthy Children

Grade 11, Open

This course focuses on the skills and knowledge needed to promote the positive and healthy nurturing of children, with particular emphasis on the critical importance of the early years to human development. Students will learn how to meet the developmental needs of young children, communicate and discipline effectively, and guide early behaviour. They will have practical experiences with infants, toddlers, and preschoolers, and will learn skills in researching and investigating questions relating to parenting.

Prerequisite: None

### **HIP40**

Personal Life Management

Grade 12, Open

This course focuses on preparing students for living independently and working successfully with others. Students will learn to manage their personal resources to meet their basic needs for food, clothing, and housing. They will also learn about their personal, legal, and financial responsibilities and develop and apply interpersonal skills in order to make wise and responsible personal and occupation choices. Students will apply research and inquiry skills while investigating topics related to personal life management. The course emphasizes the achievement of expectations through practical experiences.

Prerequisite: None

### **HHS4U**

Individuals and Families in a Diverse Society

Grade 12, University

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

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

**HSB4U**

Challenge and Change in Society

Grade 12, University

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

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

**HSP3U**

Introduction to Anthropology, Psychology, and Sociology

Grade 11, University

This course introduces the theories, questions, and issues that are the major concerns of anthropology, psychology, and sociology. Students will develop an understanding of the way social scientists approach the topics they study and the research methods they employ. Students will be given opportunities to explore theories from a variety of perspectives and to become familiar with current thinking on a range of issues that have captured the interest of classical and contemporary social scientists in the three disciplines.

Prerequisite: None

**HZT4U**

Philosophy: Questions and Theories

Grade 12, University Preparation

This course addresses three or more of the main areas of philosophy: metaphysics, logic, epistemology, ethics, social and political philosophy, and aesthetics. Students will learn critical thinking skills, the main ideas expressed by philosophers from a variety of the world's traditions, how to develop and explain their own philosophical ideas, and how to apply those ideas to contemporary social issues and personal experiences. The course will also help students refine skills used in researching and investigating topics in philosophy.

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

## **ENGLISH**

### **ENG1D**

English

Grade 9 Academic

This course is designed to develop the oral communication, reading, writing, and media literacy skills that students need for success in their secondary school academic programs and in their daily lives. Students will analyse literary texts from contemporary and historical periods, interpret informational and graphic texts, and create oral, written, and media texts in a variety of forms. An important focus will be on the use of strategies that contribute to effective communication. The course is intended to prepare students for the Grade 10 academic English course, which leads to university or college preparation courses in Grades 11 and 12.

Prerequisite: None

### **ENG1P**

English

Grade 9 Applied

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

Prerequisite: None

### **ENG1L**

English

Grade 9, Locally Developed Compulsory Credit Course

This course provides foundational literacy and communication skills to prepare students for success in their daily lives, in the workplace, and in the Grade 10 LDCC Course. The course is organized into strands that develop listening and talking skills, reading and viewing skills, and writing skills. In all strands, the focus is on developing foundational literacy skills and on using language clearly and accurately in a variety of authentic contexts. Students develop strategies and put into practice the processes involved in talking, listening, reading, viewing, writing, and thinking, and reflect regularly upon their growth in these areas.

Prerequisite: None

Note: Entry into this course requires recommendation from both elementary and secondary Special Education Resource Teachers.

**ENG2D**

English

Grade 10 Academic

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: ENG1D

**ENG2P**

English

Grade 10 Applied

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: ENG1D or ENG1P

**ENG2L**

English

Grade 10, Locally Developed Compulsory Credit Course

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, or in the English: Contemporary Aboriginal Voices, Grade 11 Workplace Preparation course. The course is organized into strands that extend listening and talking skills, reading and viewing skills, and writing skills. In all strands, the focus is on refining foundational literacy skills and on using language clearly and accurately in a variety of authentic contexts. Students build on their strategies and engage in the processes involved in talking, listening, reading, viewing, writing, and thinking, and reflect regularly upon their growth in these areas.

Prerequisite: A Grade 9 English credit

Note: Entry into this course requires recommendation from the Special Education Resource Teacher.

**EMS30**

Grade Eleven Open Level Journalism

This course provides an introduction to Journalism. It will help you to develop the writing skills, creativity, and journalism sensibility required to report general news and feature stories in print and on the web. Units of study will include effective researching, interview techniques, media ethics/analysis, reporting, feature writing, blogging, advertising and using images electronically. Students who are considering a career in journalism, advertising, mass communications or electronic media/web developing at the College or University level are encouraged to take this course.

Prerequisite: None

**ENG3U**

English

Grade 11 University Preparation

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: ENG2D

**ENG3C**

English

Grade 11 College Preparation

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: ENG2D or ENG2P

**ENG3E**

English

Grade 11 Workplace Preparation

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: ENG2P or ENG2L



**IDCOA**

History of Popular Music

Grade 12, Open

This course explores the history and different types of popular music in Western culture, from the rise of rock n' roll in the 1950's to the start of alternative music in the 1990's. By learning about different types of music including rock n' roll, hip hop/rap, heavy metal, punk, disco, and folk, students will gain a greater knowledge of history, as it affects and is affected by popular music. From Elvis to The Beatles, from Iron Maiden to Run DMC, and from The Ramones to Nirvana, students will learn to understand the history of popular music in terms of changes in both musical techniques and social values. Students will be expected to listen closely to music selections, view live concert and video footage on a daily basis, complete research and hands-on creative assignments, and contribute to class discussions.

Prerequisite: None

Note: No previous background in music is required.

**ENG4U**

English

Grade 12 University Preparation

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: ENG3U

**ENG4C**

English

Grade 12 College Preparation

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: ENG3U or ENG3C

**ENG4E**

English

Grade 12 Workplace Preparation

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: ENG 3C or ENG3E

**EWC4U**

The Writer's Craft

Grade 12 University Preparation

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: ENG3U

**OLC4O**

Ontario Secondary School Literacy Course

Grade 12, Open

This course is designed to help students acquire and demonstrate the cross-curricular literacy skills that are evaluated by the Ontario Secondary School Literacy Test OSSLT. Students who complete the course successfully will meet the provincial literacy requirement for graduation. Students will read a variety of informational, narrative, and graphic texts and will produce a variety of forms of writing, including summaries, information paragraphs, opinion pieces, and news reports. Students will also maintain and manage a portfolio containing a record of their reading experiences and samples of their writing.

Eligibility requirement: Students who have been eligible to write the OSSLT at least twice and who have been unsuccessful at least once are eligible to take the course. Students who have already met the literacy requirement for graduation may be eligible to take the course under special circumstances, at the discretion of the principal.

## **FRENCH**

### **FSF1D**

Core French

Grade 9, Academic

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

Prerequisite: None

### **FSF1P**

Core French

Grade 9, Applied

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

Prerequisite: None

### **FSF2D**

Core French

Grade 10, Academic

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: FSF1D

### **FSF3U**

Core French

Grade 11, University Preparation

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: FSF2D

**FSF4U**

Core French

Grade 12, University Preparation

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: FSF3U

**GUIDANCE AND CAREER EDUCATION****GLE10G**

Learning Strategies 1: Skills for Success

Grade 9, Open

This course focuses on learning strategies to help students become better, more independent learners. Students will learn how to develop and apply literacy and numeracy skills, personal management skills, and interpersonal and teamwork skills to improve their learning and achievement in school, the workplace, and the community. The course helps students build confidence and motivation to pursue opportunities for success in secondary school and beyond.

Prerequisite: Recommendation of principal and Special Education Resource Teacher.

**GLC20**

Career Studies

Grade 10, Open

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

**IDC4UP**

Interdisciplinary Studies, Peer Tutoring

Grade 12 University Preparation

This course explores human relations, communications and behaviour; learning strategies and barriers; and personality and leadership styles that affect individuals in educational and social settings as well as the world of work. This course will help students develop and consolidate the skills required for and knowledge of different subjects and disciplines to solve problems, make decisions, create personal meaning and present findings beyond the scope of a single subject or discipline. Students will apply the principles and processes of inquiry and research to effectively use a wide range of mass media resources; to analyse historical innovations and exemplary research and to investigate life situations and career opportunities in interdisciplinary endeavours. Through their efforts, students will achieve excellence; originality and integrity in one's own work and support these qualities in the work of others. They will assess their own cognitive affective strategies, apply general skills in both familiar and new contexts, create innovative products and communicate new knowledge.

Note: Students who have completed or are taking HHS4M cannot also receive a credit in IDC4U.

**GPP30G**

Peer Tutoring

Grade 11, Open

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

Prerequisite: None, however an interview may be required.

**CO-OPERATIVE EDUCATION****GWL30X2**

Cooperative Education

Grade 11/12, Open, 2 credits

This course is a planned learning experience for which credits are earned. This course integrates classroom theory and learning experiences at a workplace to enable students to apply and refine knowledge and skills acquired in the related curriculum course.

Prerequisite: Any successfully completed Grade 11 course or Career Studies and Civics, Grade 10, Open

NOTE: All students must go through an interview process for confirmed entry into the co-op program

## **HEALTH AND PHYSICAL EDUCATION**

### **PPL10F/M Female or Male**

Healthy Active Living Education

Grade 9, Open

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, substance use and abuse, and the use of informed decision-making, CPR and breathing emergencies, conflict resolution, and social skills in making personal choices.

Prerequisite: None

### **PA110/PAF10**

Hockey Academy Program

The HCSA program will emphasize individual and technical hockey skills development as well as fitness and nutrition. This is a two credit course and student will receive two physical education credits upon successful completion. There are on-ice and off-ice components to the program. Students will also be expected to complete traditional classroom assignments and a final exam. **There is a fee for this program.**

Prerequisite: None (need to have good skating skills)

### **PPL20M**

Healthy Active Living Education

Grade 10, Open (Male Only)

This course emphasizes regular participation in a wide variety of enjoyable physical activities that promote lifelong healthy active living. Student will apply movement principles and sport/games strategies to refine skills; actively participate in a variety of activities that enhance their personal competence and fitness. They will investigate and examine issues related to healthy sexuality, healthy eating, substance use and abuse, and will participate in activities designed to apply informed decision-making, conflict resolution and social skills in making personal choices.

Prerequisite: None

**PAF20 (Co-ed)**

Personal Fitness and Weight Training Focus Course

Grade 10 Open

This course introduces students to the benefits of weight training, while addressing all components of personal fitness. Students will learn the basic principles of weight training as well as the importance of cardio exercise in the a fitness regime. The weight room is the location of most classes, with fitness days and field trips to neighbouring health clubs included. This course is specially designed for students interesting in training specifically for a sport or variety of activities that enhance personal fitness and health. Basic anatomy and muscle physiology will be taught to enhance the overall understanding of the students. Other health topics will include healthy eating, substance use and abuse; and the use of informed decision making, conflict resolution and social skills in making personal choices.

Prerequisite: None

**PAI20F**

Live Fit, (Female Only)

Grade 10, Open

This course is designed for girls who enjoy physical activities resulting in increased fitness, weight management and positive self image. The course helps students develop a personalized approach to healthy living. They will learn about the components of the vitality approach to healthy living - an initiative that promotes healthy eating, an active lifestyle, and a positive self-image. Throughout this course, students will develop the skills necessary to take charge of and improve their own healthy. Physical activities may include: hi/low impact, step, yoga, pilates, interval training, circuit and weight training which will be held mostly in the school weight room and fitness centre. The theory part of the course focuses on topics related to basic anatomy and muscle physiology, healthy lifestyles, the improvement of self image, nutrition, and mental attitude.

Prerequisite: None

**PAD30 (Co-ed)**

Lifestyle, Fitness and Leisure Activities

Grade 11, Open

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 the students' interest throughout their lives. Students will be exposed to a variety physical activities both in the school facility as well as in the local community (E.g., YMCA, Curling Club, Bowling Alley, Sports and Recreation Facility). Through active participation in a well-balanced enjoyable program (i.e., individual, dual, team, fitness, interactive games), students will explore and continue to improve their movement skills, personal fitness, and personal competence. Students will gain the knowledge, skills, and attitudes needed to maintain a healthy lifestyle through the investigation of personal safety/injury prevention, healthy sexuality, and mental health. Students will develop a commitment to lifelong participation in enjoyable physical activity.

Prerequisite: None

**PAI30F**

Live Fit, (Female Only)

Grade 11, Open

Live Fit Program (PAI20F) is designed for girls who enjoy physical activities resulting in increased fitness, weight management and positive self-image. The course helps females develop a personalized approach to healthy living. They will apply the components of the vitality approach to healthy living to their personal lives - an initiative that promotes healthy eating, an active lifestyle, and a positive self- image. Throughout this course, students will develop the skills necessary to take charge of and improve their own healthy. Physical activities may include: hi/low impact, step, yoga, zumba, crossfit, BOSU training, stability ball interval training, kettlebell training, circuit and weight training which will be held mostly in the school weight room and fitness centre. The theory part of the course focuses on topics related to basic anatomy and muscle physiology, healthy lifestyles, the improvement of self-image, nutrition, and mental attitude.

Prerequisite: None

**PPL30**

Healthy Active Living Education

Grade 11 (Co-ed), Open

The focus of this course is on physical activity. Through active participation in a well-balanced enjoyable program (i.e., individual, dual, team, fitness, interactive games), students will explore and continue to improve their movement skills, personal fitness, and personal competence. Students will gain the knowledge, skills, and attitudes needed to maintain a healthy lifestyle through the investigation of personal safety/injury prevention, healthy sexuality, and mental health. Students will develop a commitment to lifelong participation in enjoyable physical activity.

Prerequisite: None

**PAF40**

Personal Fitness and Weight Training

Grade 11, Open

This course introduces students to the benefit of weight training, while addressing all components of physical fitness. This course is designed for students interested in sport specific training (weights, aerobic) or improving their overall fitness. Students will develop personal fitness programs to gain strength, tone muscles and improve cardiovascular abilities. Activities may include a ski day, training at community facilities, ESP training, sports injury taping, first aid training.

Prerequisite: None



**IDP30/PPZ30**

Aquatics and Leadership (**Night School, 2 Credit**)

Grade 11, Open

This is a two credit interdisciplinary package that is delivered in partnership with the Midland YMCA Pool. The course runs from October-May and is held one night a week for 4 hours. Students will receive a PPZ30 credit (Health for Life Physical Education Credit), and a IDP30 (Interdisciplinary Studies Leadership Credit). This course focuses on the development of a healthy lifestyle and participation in an aquatics concentration. Students may receive certification through the Royal Lifesaving Society in Bronze Medallion, Bronze Cross, National Lifeguard Service and Standard First Aid with CPR C & AED. Students will develop skills in communication, coaching, leadership and teamwork as it relates to water safety. They will acquire an appreciation of the importance of contributing to their communities and helping others. Students will practice goal setting, decision making, social and interpersonal skills. Registration for this program is done directly through the YMCA

Prerequisite: None

Course Fee: \$350.00 plus cost of course manuals

**PPL40 (Co-ed)**

Healthy Active Living Education

Grade 12, Open

This co-ed course is an extension of PPL 30 with a direct emphasis on lifelong activities. This course focuses on the development of a personalized approach to healthy active living through participation in a variety of sports and recreation activities that have the potential to engage the students' interest throughout their lives. Students will be encouraged to develop personal competence in a variety of physical activities. While the majority of this program is delivered in the school facility, some opportunities will be provided for students to explore recreational activities in the local community. (Bowling Alley, Curling Club, Sports and Recreation Facility). Students will develop and implement personal physical fitness plans and investigate health topics including mental health and relationships with others.

Prerequisite: None

**PAD40 (Co-ed)**

Lifestyle, Fitness and Leisure Activities

Grade 12, Open

This course is an extension of the Grade 11 PAD30 course and focuses on the development of a healthy lifestyle and participation in a variety of enjoyable physical activities that have the potential to engage the students' interest throughout their lives.

Students will be exposed to a variety of physical activities both in the school facility as well as in the local community (E.g., YMCA, Curling Club, Bowling Alley, Sports and Recreation Facility).

Through active participation in a well-balanced enjoyable program (i.e., individual, dual, team, fitness, interactive games), students will explore and continue to improve their movement skills, personal fitness, and personal competence. Students will gain the knowledge, skills, and attitudes needed to maintain a healthy lifestyle through the development and implementation of personal physical fitness plans and through the investigation of health topics including mental health and relationships with others.

Prerequisite: None

**PAI40F**

Live Fit

Grade 11, Open (Female Only)

This course is an extension or continuation of the Grade 11 Live Fit Program (PAI#O). This program is designed for girls who enjoy physical activities resulting in increased fitness, weight management and positive self-image. The course helps students to further develop a personalized approach to healthy living. They will apply the components of the vitality approach to healthy living to their personal lives- an initiative that promotes healthy eating, an active lifestyle, and a positive self-image. Throughout this course, students will be provided with opportunities to demonstrate the skills necessary to take charge of and improve their own health. Physical activities may include: hi/low impact, step, yoga, zumba, crossfit, BOSU training, stability ball, High Intensity Interval training (H.I.T.T), kettlebell training, circuit and weight training which will be held mostly in the school weight room and fitness centre. The theory part of the course focuses on topics related to healthy lifestyles, the improvement of self- image, nutrition, determinants of health, consumer health and health promotion.

Prerequisite: None

**PSE4U**

Exercise Science

Grade 12, University Preparation

This course focuses on the study of human movement and of systems, factors, and principles involved in human movement. 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 and college programs in physical education, kinesiology, recreation, nursing, pharmacy, health care, massage therapy, physiotherapy, and sports administration.

Prerequisite: Any Grade 11 University/College preparation course in science , or any Grade 11 or 12 open course in health and physical education.

**IDC4UL**

Interdisciplinary Studies, Athletic Leadership

Grade 12, University Preparation

This course focuses on the planning, organization, and implementation of athletic and recreational activities within the school community, resulting in the development of leadership and coordination skills. Emphasis will be placed on inquiry and research, communication, human relations and networking, as well as the development of problem solving and critical thinking skills. This course helps students to meet Ontario Catholic Graduate Expectations by enabling each person to become a self-directed, life long learner who exercises Christian leadership to achieve individual and group goals. Students taking this course will be better prepared for University programs in Physical and Health Education, Recreation, and Leadership related fields.

Prerequisite: Each applicant will be required to go through an interview process to determine his/her suitability for this program.

## **MATHEMATICS**

### **MPM1D**

Principles of Mathematics

Grade 9, Academic

This course enables students to develop an understanding of mathematical concepts related to algebra, analytic geometry, and measurement and geometry through investigation, the effective use of technology, and abstract reasoning. Students will investigate relationships, which they will then generalize as equations of lines, and will determine the connections between different representations of a linear relation. They will also explore relationships that emerge from the measurement of three-dimensional figures and two-dimensional shapes. Students will reason mathematically and communicate their thinking as they solve multi-step problems.

Prerequisite: None

### **MFM1P**

Foundations of Mathematics

Grade 9, Applied

This course enables students to develop an understanding of mathematical concepts related to introductory algebra, proportional reasoning, and measurement and geometry through investigation, the effective use of technology, and hands-on activities. Students will investigate real-life examples to develop various representations of linear relations, and will determine the connections between the representations. They will also explore certain relationships that emerge from the measurement of three-dimensional figures and two-dimensional shapes. Students will consolidate their mathematical skills as they solve problems and communicate their thinking.

Prerequisite: None

### **MAT1L**

Mathematics

Grade 9, Locally Developed Compulsory Credit Course

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 Grade 10 LDCC course.

The course is organized in 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: None

Note: Entry into this course requires recommendation from both elementary and secondary Special Education Resource Teachers.

**MPM2D**

Principles of Mathematics

Grade 10, Academic

This course enables students to broaden their understanding of relationships and extend their problem-solving and algebraic skills through investigation, the effective use of technology, and abstract reasoning. Students will explore quadratic relations and their applications; solve and apply linear systems; verify properties of geometric figures using analytic geometry; and investigate the trigonometry of right and acute triangles. Students will reason mathematically and communicate their thinking as they solve multi-step problems.

Prerequisite: MPM1D

Note: Recommended high level of achievement in MPM1D.

**MFM2P**

Foundations of Mathematics

Grade 10, Applied

This course enables students to consolidate their understanding of linear relations and extend their problem-solving and algebraic skills through investigation, the effective use of technology, and hands-on activities. Students will develop and graph equations in analytic geometry; solve and apply linear systems, using real-life examples; and explore and interpret graphs of quadratic relations. Students will investigate similar triangles, the trigonometry of right triangles, and the measurement of three-dimensional figures. Students will consolidate their mathematical skills as they solve problems and communicate their thinking.

Prerequisite: MPM1D or MFM1P

**MAT2L**

Mathematics

Grade 10, Locally Developed Compulsory Credit Course

This course emphasizes the extension of mathematical knowledge and skills to prepare students for success in their everyday lives, in the workplace, and in the Grade 11 Mathematics Workplace Preparation course. The course is organized in three strands related to money sense, measurement, and proportional reasoning. In all strands, the focus is on strengthening and extending key foundational mathematical concepts and skills by solving authentic, everyday problems. Students have opportunities to extend their mathematical literacy and problem-solving skills and to continue developing their skills in reading, writing, and oral language through relevant and practical math activities.

Prerequisite: A Grade 9 Mathematics credit Note: Entry into this course requires recommendation from the Special Education Resource Teacher.

**MCR3U**

Functions

Grade 11 University Preparation

This course introduces the mathematical concept of the function by extending students' experiences with linear and quadratic relations. Students will investigate properties of discrete and continuous functions, including trigonometric and exponential functions; represent functions numerically, algebraically, and graphically; solve problems involving applications of functions; investigate inverse functions; and develop facility in determining equivalent algebraic expressions. Students will reason mathematically and communicate their thinking as they solve multi-step problems.

Prerequisite: Principles of Mathematics, Grade 10, Academic.

Note: Recommended high level of achievement in MPM2D

**MCF3M**

Functions and Applications

Grade 11 University/College Preparation

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 applications. Students will reason mathematically and communicate their thinking as they solve multi-step problems.

Prerequisite: MPM2D or MFM2P

Note: Recommended high level of achievement in MFM2P for this course.

**MBF3C**

Foundations for College Mathematics

Grade 11 College Preparation

This course enables students to broaden their understanding of mathematics as a problem solving tool in the real world. Students will extend their understanding of quadratic relations; investigate situations involving exponential growth; solve problems involving compound interest; solve financial problems connected with vehicle ownership; develop their ability to reason by collecting, analysing, and evaluating data involving one variable; connect probability and statistics; and solve problems in geometry and trigonometry. Students will consolidate their mathematical skills as they solve problems and communicate their thinking.

Prerequisite: MFM2P

**MEL3E**

Mathematics for Work and Everyday Life Grade 11 Workplace Preparation

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: MPM2D, MFM2P or MAT2L

**MHF4U**

Advanced Functions

Grade 12 University Preparation

This course extends students' experience with functions. Students will investigate the properties of polynomial, rational, logarithmic, and trigonometric functions; develop techniques for combining functions; broaden their understanding of rates of change; and develop facility in applying these concepts and skills. Students will also refine their use of the mathematical processes necessary for success in senior mathematics. This course is intended both for students taking the Calculus and Vectors course as a prerequisite for a university program and for those wishing to consolidate their understanding of mathematics before proceeding to any one of a variety of university programs.

Prerequisite: MCU3U or MCT4C

**MCV4U**

Calculus and Vectors

Grade 12 University Preparation

This course builds on students' previous experience with functions and their developing understanding of rates of change. Students will solve problems involving geometric and algebraic representations of vectors and representations of lines and planes in three dimensional space; broaden their understanding of rates of change to include the derivatives of polynomial, sinusoidal, exponential, rational, and radical functions; and apply these concepts and skills to the modeling of real-world relationships. Students will also refine their use of the mathematical processes necessary for success in senior mathematics. This course is intended for students who choose to pursue careers in fields such as science, engineering, economics, and some areas of business, including those students who will be required to take a university-level calculus, linear algebra, or physics course.

Prerequisite: MCR3U

Note: The new Advanced Functions course MHF4U must be taken prior to or concurrently with Calculus and Vectors MCV4U.

**MDM4U**

Mathematics of Data Management

Grade 12 University Preparation

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

Prerequisite: MCR3U or MCF3M

**MAP4C**

Foundations for College Mathematics

Grade 12 College Preparation

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

Prerequisite: MCF3M or MBF3C

**MEL4E**

Mathematics for Work and Everyday Life

Grade 12 Workplace Preparation

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

Prerequisite: MEL3E

**SCIENCE****SNC1D**

Science

Grade 9, Academic

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

Prerequisite: None

**SNC1P**

Science

Grade 9, Applied

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

Prerequisite: None

**SNC1L**

Science

Grade 9 , Locally Developed Compulsory Credit Course

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

Prerequisite: None

Note: Entry into this course requires recommendation from both elementary and secondary Special Education Resource Teachers.

**SNC2D**

Science

Grade 10, Academic

This course enables students to enhance their understanding of concepts in biology, chemistry, earth and space science, and physics, and of the interrelationships between science, technology, society, and the environment. Students are also given opportunities to further develop their scientific investigation skills. Students will plan and conduct investigations and develop their understanding of scientific theories related to the connections between cells and systems in animals and plants; chemical reactions, with a particular focus on acid– base reactions; forces that affect climate and climate change; and the interaction of light and matter.

Prerequisite: SNC1D



**SNC2P**

Science

Grade 10, Applied

This course enables students to develop a deeper understanding of concepts in biology, chemistry, earth and space science, and physics, and to apply their knowledge of science in real-world situations. Students are given opportunities to develop further practical skills in scientific investigation. Students will plan and conduct investigations into everyday problems and issues related to human cells and body systems; chemical reactions; factors affecting climate change; and the interaction of light and matter.

Prerequisite: SNC1D or SNC1P

**SNC2L**

Science

Grade 10 , Locally Developed Compulsory Credit Course

This course emphasizes reinforcing and strengthening science-related knowledge and skills, including scientific inquiry, critical thinking, and the environmental impact of science and technology, to prepare students for success in everyday life, in the workplace, and in the Science Grade 11 Workplace Preparation course. Students explore a range of topics, including science in the media, interactions of common materials, interdependence of organisms in communities, and using electrical energy. Students have the opportunity to extend mathematical and scientific process skills and to continue developing their skills in reading, writing, and oral language through relevant and practical science activities.

Prerequisite: None

Note: Entry into this course requires recommendation from the Special Education Resource Teacher.

**SBI3U**

Biology

Grade 11, University Preparation

This course furthers students' understanding of the processes that occur in biological systems. Students will study theory and conduct investigations in the areas of biodiversity; evolution; genetic processes; the structure and function of animals; and the anatomy, growth, and function of plants. The course focuses on the theoretical aspects of the topics under study, and helps students refine skills related to scientific investigation.

Prerequisite: SNC2D

**SBI3C**

Biology

Grade 11, College Preparation

This course focuses on the processes that occur in biological systems. Students will learn concepts and theories as they conduct investigations in the areas of cellular biology, microbiology, genetics, the anatomy of mammals, and the structure of plants and their role in the natural environment. Emphasis will be placed on the practical application of concepts, and on the skills needed for further study in various branches of the life sciences and related fields.

Prerequisite: SNC2D or SNC2P

**SBI4U**

Biology

Grade 12, University Preparation

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

Prerequisite: SBI3U

**SCH3U**

Chemistry

Grade 11, University Preparation

This course enables students to deepen their understanding of chemistry through the study of the properties of chemicals and chemical bonds; chemical reactions and quantitative relationships in those reactions; solutions and solubility; and atmospheric chemistry and the behaviour of gases. Students will further develop their analytical skills and investigate the qualitative and quantitative properties of matter, as well as the impact of some common chemical reactions on society and the environment.

Prerequisite: SNC2D

**SCH4U**

Chemistry

Grade 12, University Preparation

This course enables students to deepen their understanding of chemistry through the study of organic chemistry, the structure and properties of matter, energy changes and rates of reaction, equilibrium in chemical systems, and electrochemistry. Students will further develop their problem-solving and investigation skills as they investigate chemical processes, and will refine their ability to communicate scientific information. Emphasis will be placed on the importance of chemistry in everyday life and on evaluating the impact of chemical technology on the environment.

Prerequisite: SCH3U Chemistry

**SCH4C**

Grade 12, College Preparation

This course enables students to develop an understanding of chemistry through the study of matter and qualitative analysis, organic chemistry, electrochemistry, chemical calculations, and chemistry as it relates to the quality of the environment. Students will use a variety of laboratory techniques, develop skills in data collection and scientific analysis, and communicate scientific information using appropriate terminology. Emphasis will be placed on the role of chemistry in daily life and the effects of technological applications and processes on society and the environment.

Prerequisite: SNC2D or SNC2P

**SPH3U**

Physics

Grade 11, University Preparation

This course develops students' understanding of the basic concepts of physics. Students will explore kinematics, with an emphasis on linear motion; different kinds of forces; energy transformations; the properties of mechanical waves and sound; and electricity and magnetism. They will enhance their scientific investigation skills as they test laws of physics. In addition, they will analyze the interrelationships between physics and technology, and consider the impact of technological applications of physics on society and the environment.

Prerequisite: SNC2D

**SPH4U**

Physics

Grade 12 University Preparation

This course enables students to deepen their understanding of physics concepts and theories. Students will continue their exploration of energy transformations and the forces that affect motion, and will investigate electrical, gravitational, and magnetic fields and electromagnetic radiation. Students will also explore the wave nature of light, quantum mechanics, and special relativity. They will further develop their scientific investigation skills, learning, for example, how to analyse, qualitatively and quantitatively, data relating to a variety of physics concepts and principles. Students will also consider the impact of technological applications of physics on society and the environment.

Prerequisite: SPH3U

**SPH4C**

Physics

Grade 12, College Preparation

This course develops students' understanding of the basic concepts of physics. Students will explore these concepts with respect to motion; mechanical, electrical, electromagnetic, energy transformation, hydraulic, and pneumatic systems; and the operation of commonly used tools and machines. They will develop their scientific investigation skills as they test laws of physics and solve both assigned problems and those emerging from their investigations. Students will also consider the impact of technological applications of physics on society and the environment.

Prerequisite: SNC2D or SNC2P

## **TECHNOLOGY**

### *Communications Technology*

#### **TGJ20**

Communications Technology

Grade 10, Open

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

#### **TGJ3M**

Communications Technology

Grade 11, University/College Preparation

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

#### **TGJ4M**

Communications Technology

Grade 12, University/College Preparation

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.

Prerequisite: TGJ3M

**IDC3OT**

Interdisciplinary Studies – Design Technology Grade 11 Open

In this course, students will combine skills and knowledge in design, fabrication, business and mathematics. Advanced 3D design software will be used to create solutions to real Mechanical and/or Architectural design problems. Computer animation will be used to help visualize designs. Through individual and collaborative inquiry and research, students will analyse the creative processes involved in problem solving and invention. They will also investigate current issues and careers in design, manufacturing, marketing and business.

Prerequisite: None

*Computer Studies*

**ICS3U**

Introduction to Computer Science

Grade 11, University Preparation

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

**ICS3C**

Introduction to Computer Programming

Grade 11, College Preparation

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

**ICS4U**

Computer Science

Grade 12, University Preparation

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: ICS3U

**ICS4C**

Computer Programming

Grade 12 College Preparation

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: ICS3C

*Computer Technology***TEJ10**

Exploring Computer Technology

Grade 9, Open

This exploratory course introduces students to concepts and skills in computer technology, which encompasses computer systems, networking, interfacing, and programming, as well as electronics and robotics. Students will develop an awareness of related environmental and societal issues and will begin to explore secondary and postsecondary pathways leading to careers in the field.

Prerequisite: None

**TEJ20**

Exploring Computer Technology

Grade 10, Open

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

**TEJ3E**

Computer Engineering Technology

Grade 11, Workplace Preparation

This course enables students to develop knowledge and skills related to computer hardware, networks, operating systems, and other software. Students will use utility and application software and learn proper procedures for installing, maintaining, and troubleshooting computer systems and networks. Students will develop an awareness of environmental and societal issues related to the use of computers, and will learn about apprenticeships and other employment opportunities in the field of computer technology that they may choose to pursue after graduation.

Prerequisite: None

**TEJ3M**

Computer Engineering Technology

Grade 11, University/College Preparation

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

*Construction Technology***TIJ1OC**

Exploring Computer & Communication Technology

Grade 9, Open

This course will introduce students to the fundamentals of Computer Technology and Communication Technology. Students will explore Computer Programming, Robotics, Electronics and 3D Design. Students will also be introduced to Graphic Design and Video Production. Students will have the opportunity to design and create products using a variety of industry standard tools, equipment and software.

Prerequisite: None

**TIJ1OS**

Exploring Transportation and Manufacturing Technologies

Grade 9, Open

This course will introduce students to the fundamentals of transportation technology and of manufacturing technology. This course will cover health and safety and use hands on techniques. Students will explore careers in these areas and the local industries.

Prerequisite: None

**TIJ1OH**

Exploring Personal Health & Wellness

Grade 9, Open

This course will introduce students to a lifestyle of personal health and wellness. Students will discuss body image, fashion, hair care, personal hygiene, nail and skin care. Students will also have the opportunity to work on hands-on projects in this course.

Prerequisite: None

**TCJ20**

Construction Technology

Grade 10, Open

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

**TCJ3E**

Construction Technology

Grade 11, Workplace Preparation

This course enables students to develop technical knowledge and skills related to carpentry, masonry, electrical systems, heating and cooling, and plumbing for residential construction. Students will gain hands on experience using a variety of materials, processes, tools, and equipment to design, layout, and build projects. They will create and read technical drawings, learn construction terminology, interpret building codes and regulations, and apply mathematical skills as they develop construction projects. Students will also develop an awareness of environmental and societal issues related to construction technology, and explore postsecondary and career opportunities in the field.

Prerequisite: None

Note: This course can be taken as a double credit. If you are interested in taking it as a double credit, please indicate it twice on your option form.

**TCJ4E**

Construction Technology

Grade 12, Workplace Preparation

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

Prerequisite: TCJ3E

Note: This course can be taken as a double credit. If you are interested in taking it as a double credit, please indicate it twice on your option form.



**TWJ3E**

Custom Woodworking

Grade 11, Workplace Preparation

This course enables students to develop knowledge and skills related to cabinet making and furniture making. Students will gain practical experience using a variety of the materials, tools, equipment, and joinery techniques associated with custom woodworking. Students will learn to create and interpret technical drawings and will plan, design, and fabricate projects. They will also develop an awareness of environmental and societal issues related to the woodworking industry, and explore apprenticeships, postsecondary training, and career opportunities in the field that may be pursued directly after graduation.

Prerequisite: None

Note: This course can be taken as a double credit. If you are interested in taking it as a double credit, please indicate it twice on your option form.

**TWJ4E**

Custom Woodworking

Grade 12, Workplace Preparation

This course enables students to further develop knowledge and skills related to the planning, design, and construction of cabinets and furniture for residential and/or commercial projects. Students will gain further experience in the safe use of common woodworking materials, tools, equipment, finishes, and hardware, and will learn about the entrepreneurial skills needed to establish and operate a custom woodworking business. Students will also expand their awareness of health and safety issues and environmental and societal issues related to woodworking, and will explore career opportunities that may be pursued directly after graduation.

Prerequisite: TWJ3E

Note: This course can be taken as a double credit. If you are interested in taking it as a double credit, please indicate it twice on your option form.

*Manufacturing***TMJ20**

Grade 10, Open

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 drawings, properties and preparation of materials used in manufacturing. Student projects may include welding basics and sheet metal work. 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

**TMJ3E**

Manufacturing Technology

Grade 11, Workplace preparation

This hands-on, project based course is designed for students planning to enter an occupation, apprenticeship or just knowledge in Manufacturing. Students will work on a variety of projects, developing knowledge and skills in design, fabrication, and problem solving. The focus will be based on Welding and Sheet Metal, using tools and machines as such. In addition students will have the opportunity to acquire industry standard certification and training. Students will develop an awareness of environmental and societal issues related to manufacturing and will learn about secondary school pathways that lead to careers in the industry.

Prerequisite: none

**TMJ4E**

Manufacturing Technology

Grade 12, Workplace preparation

This project driven hands on course builds on students' experiences in manufacturing technology. Students will further develop knowledge and skills related to the use of Welding and Sheet Metal tools and machines. Students will have the opportunities to design, fabricate projects based around a variety of technological challenges. Students may have the opportunities to acquire industry-standard training and certification. Students will expand their awareness of environmental and societal issues and of career opportunities in the manufacturing industry.

Prerequisite: TMJ3E

*Hospitality and Tourism***TFJ2O**

Hospitality and Tourism Technology

Grade 10, Open

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

**TFJ3C**

Hospitality and Tourism

Grade 11, College Preparation

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

**TFB3E**

Hospitality and Tourism – Baking Focus

This course will provide students with a theoretical and practical foundation in baking practices, including selection of ingredients, proper mixing and baking techniques, careful assembly, decoration, and presentation. Students will also develop an understanding of a working bake shop through the use of recipes, equipment, and utensils, all while working in a safe, sanitary, and professional manner.

Prerequisite: None

**TFJ4C**

Hospitality and Tourism

Grade 12, College Preparation

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: TFJ3C

Note: This course can be taken as a double credit. If you are interested in taking it as a double credit, please indicate it twice on your option form.

## *Hairstyling and Aesthetics*

### **TXJ2O**

Hairstyling and Aesthetics

Grade 10, Open

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

Prerequisite: None

### **TXJ3E**

Hairstyling and Aesthetics

Grade 11, Workplace Preparation

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

Prerequisite: None

Note: This course can be taken as a double credit. If you are interested in taking it as a double credit, please indicate it twice on your option form.

### **TXJ4E**

Hairstyling and Aesthetics

Grade 12, Workplace Preparation

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

Prerequisite: Hairstyling and Aesthetics, Grade 11, Workplace Preparation

Note: This course can be taken as a double credit. If you are interested in taking it as a double credit, please indicate it twice on your option form.

## *Transportation Technology*

### **TTJ2O**

Transportation Technology

Grade 10, Open

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

### **TTJ3C**

Transportation Technology

Grade 11, College Preparation

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

Note: This course can be taken as a double credit. If you are interested in taking it as a double credit, please indicate it twice on your option form.

### **TTJ4C**

Transportation Technology

Grade 12, College Preparation

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: TTJ3C

Note: This course can be taken as a double credit. If you are interested in taking it as a double credit, please indicate it twice on your option form.