

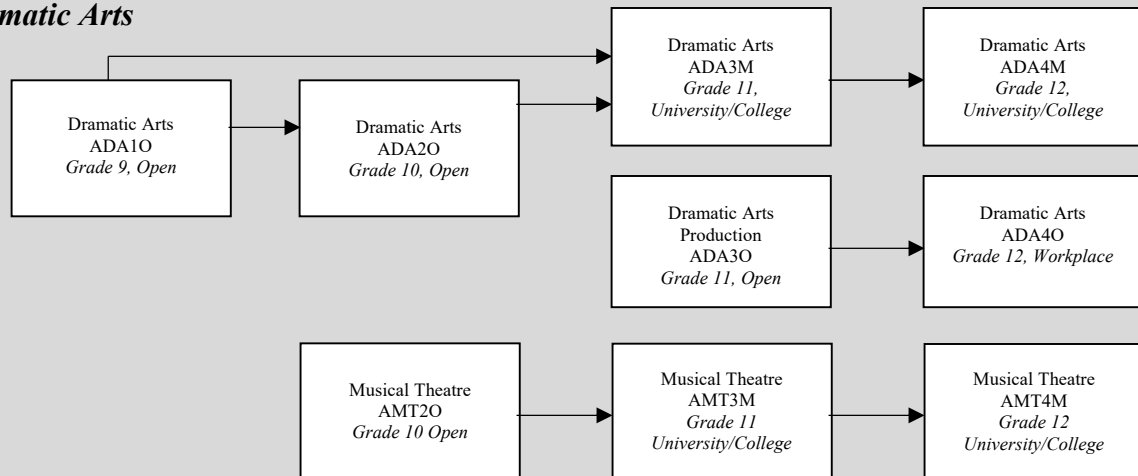


COURSE OFFERINGS
@Bayridge
2020-2021

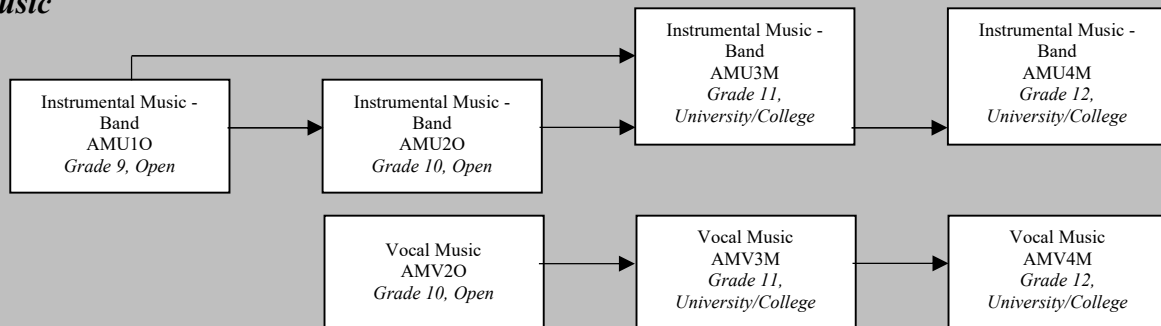
Prerequisite Charts for the Arts, Grades 9 - 12

These charts show the links between courses and the possible prerequisites for them. They do not attempt to depict all possible movements from course to course.

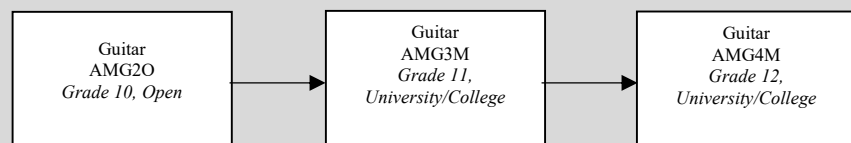
Dramatic Arts



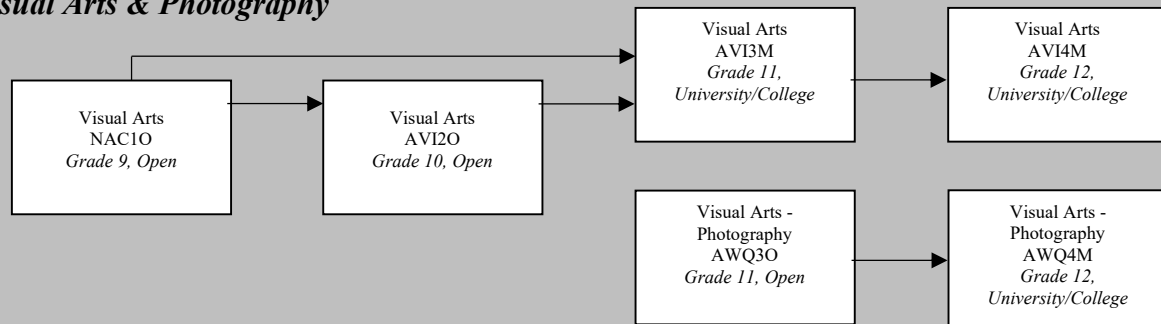
Music



Guitar



Visual Arts & Photography



Arts: Drama, Musical Theatre

ADA100, 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 analyze drama, and then reflect on the experiences to develop an understanding of themselves, the art form, and the world around them.

Prerequisite: None

ADA200, 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: None

ADA300, Dramatic Arts, Grade 11, Open

This course requires students to engage in dramatic processes and the presentation of dramatic works, and emphasizes the application of drama skills in other contexts and opportunities. Students will interpret and present works in a variety of dramatic forms, create and script original works, and critically analyse the processes involved in producing dramatic works. Students will develop a variety of skills related to collaboration and the presentation of dramatic works.

Prerequisite: None

ADA3M0, 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: ADA100 or ADA200

ADA4M0, Dramatic Arts, Grade 12, University/College

Dramatic Arts

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 text 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.

Prerequisite: ADA3M0

AMT200, Musical Theatre, Grade 10, Open

This course explores the many components of Musical Theatre with the goal of staging a major production, and emphasizes the performance of theatre at a level that strikes a balance between challenge and skill. Students will have an opportunity to explore many of the facets of Musical Theatre including the Dramatic Arts, Music, stage management, choreography, lighting, and set design and construction. This course is open to actors, musicians, and students with technical backgrounds.

Prerequisite: None

AMT3M0, Musical Theatre, Grade 11, University/College

This course explores the many components of Musical Theatre with the goal of staging a major production, and emphasizes the performance of theatre at a level that strikes a balance between challenge and skill. Students will have an opportunity to explore many of the facets of Musical Theatre including the Dramatic Arts, Music, stage management, choreography, lighting, and set design and construction. This course is open to actors, musicians, and students with technical backgrounds.

Prerequisite: None

AMT4M0, Musical Theatre, Grade 12, University/College

This course explores the many components of Musical Theatre with the goal of staging a major production, and emphasizes the performance of theatre at a level that strikes a balance between challenge and skill. Students will have an opportunity to explore many of the facets of Musical Theatre including the Dramatic Arts, Music, stage management, choreography, lighting, and set design and construction. This course is open to actors, musicians, and students with technical backgrounds.

Prerequisite: None

Arts: Instrumental Music, Guitar, Vocal Music

AMU1O0, Instrumental 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

AMU2O0, Instrumental 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: None

AMU3M0, Instrumental Music, Grade 11, Open

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: AMU1O0 or AMU2O0

AMU4M0, Instrumental Music, Grade 12, University/College

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: AMU3M0

AMG2O0, Music, Guitar, Grade 10, Open

This course emphasizes performance of music at an intermediate level that strikes a balance between challenge and skill. Student learning will include participating in creative activities and listening perceptively. Students will also be required to develop a thorough understanding of the language of music, including the elements, terminology, and history. Students will play the guitar in this course. Guitars are provided.

Prerequisite: None

AMG3M0, Music, Guitar, Grade 11, University/College

This course develops students' artistic knowledge and skills through the performance of music and the preparation of music productions. Students will perform appropriate works, particularly works in contemporary popular styles. Independently and in groups, they will also plan, market, and produce music productions, making use of appropriate technology. They will also evaluate the results.

Prerequisite: AMG1O0 or AMG2O0

AMG4M0, Music, Guitar, Grade 12, University/College

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

Prerequisite: AMG3M0

AMV200, Vocal Music, Open

This course emphasizes the creation and performance of vocal 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: None

AMV3M0, Vocal Music, University/College

This course provides students with opportunities to develop their voice and musical literacy through the creation, appreciation, analysis, and performance of vocal music, including traditional, commercial, and art music. Students will apply the creative process when singing 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

AMV4M0, Vocal Music, University/College

This course enables students to enhance their voice and musical literacy through the creation, appreciation, analysis, and performance of vocal music. Students will sing 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

Arts: Visual**NAC100, 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 explore First Nations, Métis, and Inuit perspectives and cultures. Students will examine the interconnected relationships between art forms and individual and cultural identities, histories, values, protocols, and ways of knowing and being. They will demonstrate innovation as they learn and apply art-related concepts, methods, and conventions, and acquire skills that are transferable beyond the classroom. Students will use the creative process and responsible practices to explore solutions to creative arts challenges.

Prerequisite: None

AVI200, 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: None

AVI3M0, Visual Arts, Grade 11, University/College

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 emergent 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.

Prerequisite: AVI100 or AVI200

AWQ300, Visual Arts, Photography, Grade 11, Open

This course is an introduction to photographic techniques. Students will create works of art and explore a wide range of subject matter. Students will study the elements and principles of design. They will examine the history of photography and photography careers. The course will focus on digital photography. Students will also learn to use computer software programs to enhance and manipulate photographs. Digital cameras are provided for student use. There is a studio fee of \$30.

Prerequisite: None

AVI4M0, Visual Arts, 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.

Prerequisite: AVI3M0

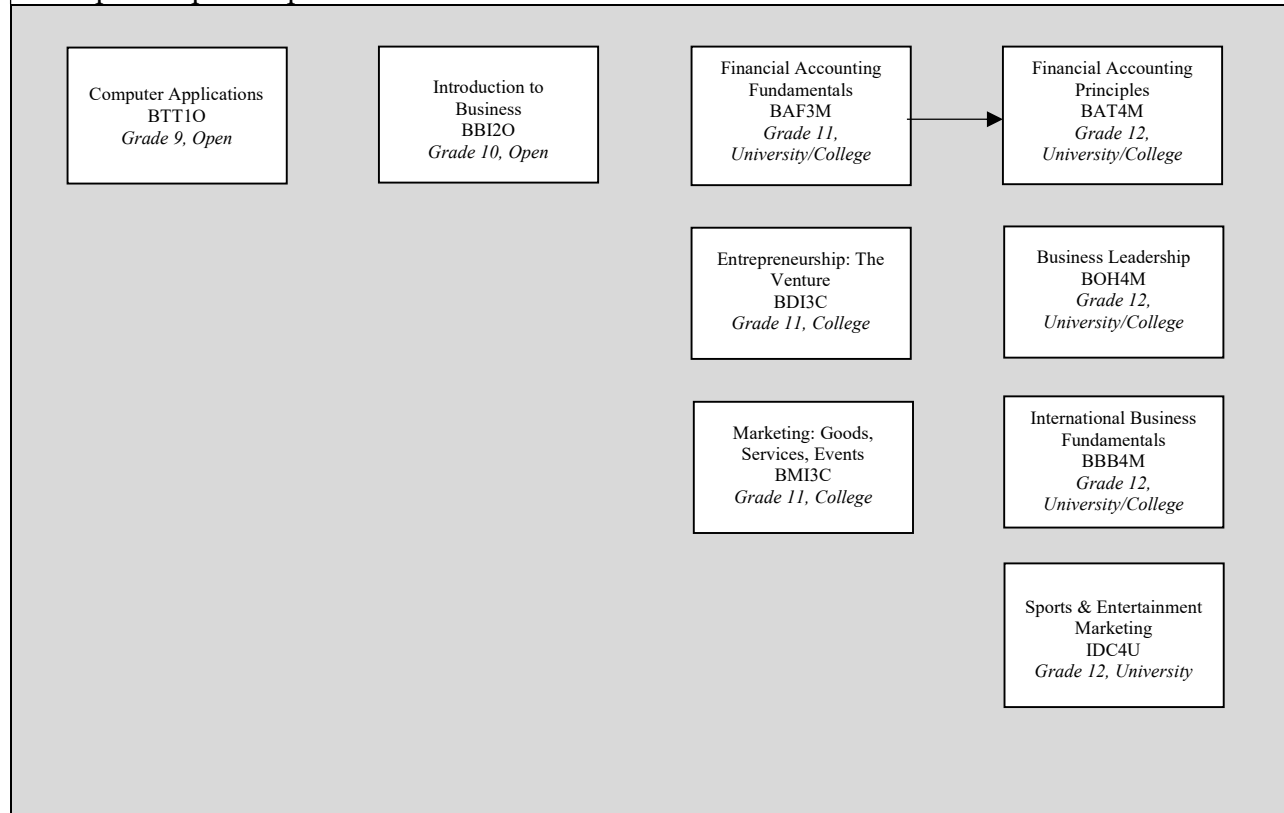
AWQ4M0, Visual Arts, Photography, Grade 12, University/College

This course is an introduction to photographic techniques. Students will create works of art and explore a wide range of subject matter. Students will study elements and principles of design. They will examine the history of photography and photography careers. The course will focus on digital photography. Students will learn to use computer software programs to enhance and manipulate photographs. Digital cameras are provided for student use. There is a studio fee of \$30.

Prerequisite: AWQ3O0 or permission of the teacher.

Prerequisite Charts for Business Studies, Grades 9 - 12

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Business Studies

BTT100, Information and Communication Technology in Business, Grade 9 Open

This course introduces students to information and communication technology in a business environment and builds a foundation of digital literacy skills necessary for success in a technologically driven society. Students will develop word processing, spreadsheet, database, desktop publishing, presentation software, and website design skills. Throughout the course, there is an emphasis on digital literacy, effective electronic research and communication skills, and current issues related to the impact of information and communication technology.

Prerequisite: None

BBI200, Introduction to Business, Grade 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 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

BAF3M0, 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 current issues and ethics and current issues in accounting.

Prerequisite: None

BDI3C0, Entrepreneurship: The Venture, Grade 11 College Preparation

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

Prerequisite: None

BMI3C0, Marketing: Goods, Services, Events, Grade 11 College Preparation (offered every other year)

This course introduces the fundamental concepts of product marketing, which includes the marketing of goods, services, and events. Students will examine how trends, issues, global economic changes, and information technology influence consumer buying habits. Students will engage in marketing research, develop marketing strategies, and produce a marketing plan for a product of their choice.

Prerequisite: None

BAT4M0, Financial Accounting Principles, Grade 12 University/College Preparation (offered every other year)

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

Prerequisite: BAF3M0

BBB4M0, International Business Fundamentals, Grade 12 University/College Preparation (offered every other year)

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 post secondary programs in business, including international business, marketing, and management.

Prerequisite: None

BOH4M0, Business Leadership: Management Fundamentals, Grade 12 University/College Preparation (offered every other year)

This course focuses on the development of leadership skills used in managing a successful business. Students will analyze 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 throughout the course.

Prerequisite: None

CIA4U0, Analysing Current Economic Issues, Grade 12, University Preparation (offered every other year)

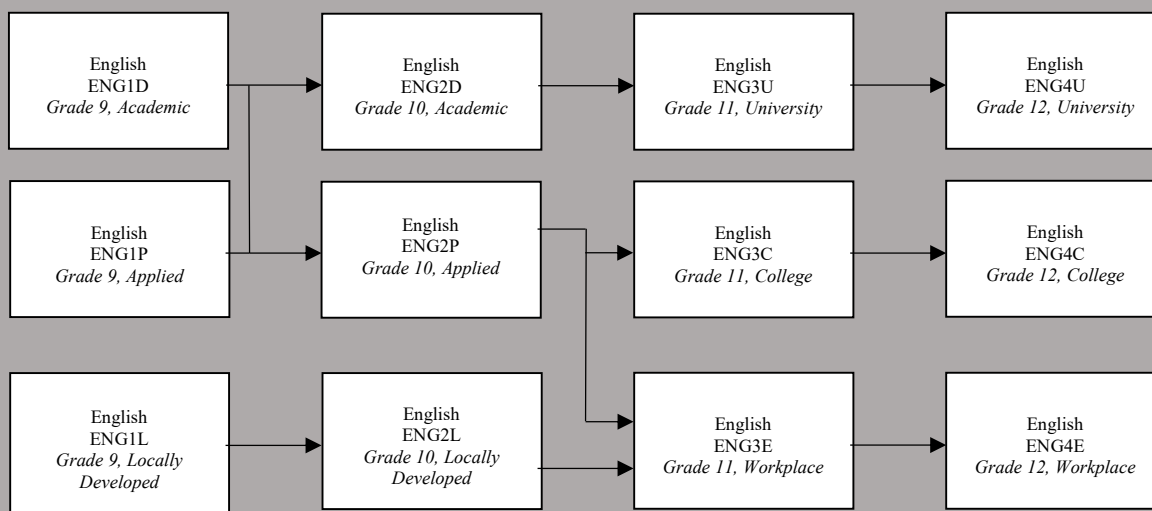
This course examines current national and global economic trends and policies from diverse perspectives. Students will explore the impact of choices that individuals and institutions, including governments, make in responding to local, national, and global economic issues such as globalization and global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

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

Prerequisite Charts for English, Grades 9 - 12

These charts show the links between courses and the possible prerequisites for them. They do not attempt to depict all possible movements from course to course.

English – Compulsory Courses



English – Optional Courses



*ELS20 is a grade 10 course that students may take in their grade 9 or 10 year as part of a plan to support literacy development. Speak to Student Services to learn more.

English

ENG1D0, 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

ENG1P0, 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

ENG1L0, English, Grade 9 Locally Developed

This course provides foundational literacy and communication skills to prepare students for success in their daily lives, in the workplace, and in the ENG2L course prior to the Grade 11 Workplace Preparation 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

ENG2D0, 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: ENG1D0 or ENG1P + transfer course

ENG2P0, 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: ENG1P0

ENG2L0, English, Grade 10 Locally Developed

In this course, students focus on extending their literacy and communication skills to prepare for success in their daily lives, in the workplace and in the English 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: ENG1D0, ENG1P0, or ENG1LL

ELS2O0, Literacy Skills: Reading and Writing, Grade 10 Open

This course is designed to help students strengthen essential reading and writing skills, providing them with the extra literacy support they need in order to graduate. Students will take advantage of current resources in the classroom library to read informational, graphic, and literary texts, with a focus on locating information, identifying main ideas and supporting details, building vocabulary, and consolidating skills in the application of key comprehension strategies. The course will also help students develop core learning strategies through an explicit and sustained focus on learning skills and work habits instruction and assessment. Particular focus will also be paid to differentiation based on pathway, reading fluency, and indigenous education. Students may take this course in their grade 9 year based on a plan developed with the support of Student Services.

Prerequisite: None

NBE3U0, 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: ENG2D0

NBE3C0, 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: ENG2P0

NBE3E0, 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: ENG2P0 or ENG2L0

ENG4U0, 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: ENG3U0

ENG4C0, 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: ENG3C0

ENG4E0, 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: ENG3E0

EW4U0, The Writer's Craft, University Preparation

This course emphasizes knowledge and skills related to the craft of writing. Students will analyze 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: ENG 3U0

EWC4C0, The Writer's Craft, College Preparation

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

Prerequisite: ENG3C0

OLC4O0, English, Ontario Secondary School Literacy Course, Open

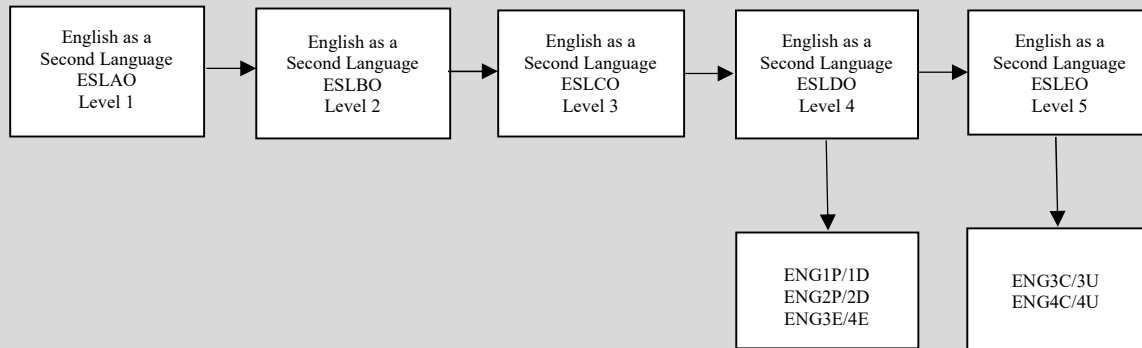
This course is designed to help students acquire and demonstrate the cross-curricular literacy skills that are evaluated by the Ontario Secondary School Literacy Test (OSSLT). Students who complete the course successfully will meet the provincial literacy requirement for graduation. Students will read 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 literacy portfolio containing a record of their reading experiences and samples of their writing.

Prerequisite: Only those students who have been eligible to write the OSSLT at least twice and who have been unsuccessful at least once are eligible to take this course.

Prerequisite Charts for English as a Second Language, Grades 9 - 12

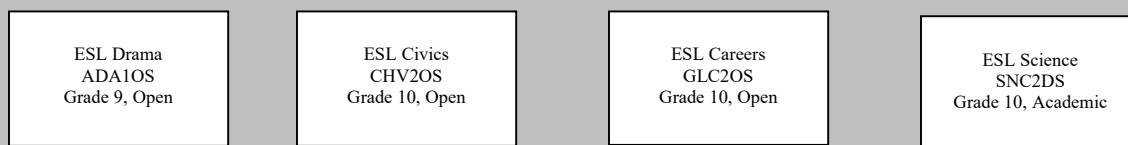
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English as a Second Language



***Students will be assessed to be placed in an appropriate level*

ESL Subjects from Other Areas



English as a Second Language

ESLAO0, English as a Second Language, Level 1, Open

This course builds on students' previous education and language knowledge to introduce them to the English language and help them adjust to the diversity in their new environment. Students will use beginning English language skills in listening, speaking, reading, and writing for everyday and essential academic purposes. They will engage in short conversations using basic English language structures and simple sentence patterns; read short adapted texts; and write phrases and short sentences. The course also provides students with the knowledge and skills they need to begin to adapt to their new lives in Canada.

Prerequisite: None

ESLBO0, English as a Second Language, Level 2, Open

This course extends students' listening, speaking, reading, and writing skills in English for everyday and academic purposes. Students will participate in conversations in structured situations on a variety of familiar and new topics; read a variety of texts designed or adapted for English language learners; expand their knowledge of English grammatical structures and sentence patterns; and link English sentences to compose paragraphs. The course also supports students' continuing adaptation to the Ontario school system by expanding their knowledge of diversity in their new province and country.

Prerequisite: English as a Second Language, Level 1, or equivalent

ESLCO0, English as a Second Language, Level 3, Open

This course further extends students' skills in listening, speaking, reading, and writing in English for a variety of everyday and academic purposes. Students will make short classroom oral presentations; read a variety of adapted and original texts in English; and write using a variety of text forms. As well, students will expand their academic vocabulary and their study skills to facilitate their transition to the mainstream school program. This course also introduces students to the rights and responsibilities inherent in Canadian citizenship, and to a variety of current Canadian issues.

Prerequisite: English as a Second Language, Level 2, or equivalent

ESLDO0, English as a Second Language, Level 4, Open

This course prepares students to use English with increasing fluency and accuracy in classroom and social situations and to participate in Canadian society as informed citizens. Students will develop the oral-presentation, reading, and writing skills required for success in all school subjects. They will extend listening and speaking skills through participation in discussions and seminars; study and interpret a variety of grade-level texts; write narratives, articles, and summaries in English; and respond critically to a variety of print and media texts.

Prerequisite: English as a Second Language, Level 3, or equivalent

ESLEO0, English as a Second Language, Level 5, Open

This course provides students with the skills and strategies they need to make the transition to college and university preparation courses in English and other secondary school disciplines. Students will be encouraged to develop independence in a range of academic tasks. They will participate in debates and lead classroom workshops; read and interpret literary works and academic texts; write essays, narratives, and reports; and apply a range of learning strategies and research skills effectively. Students will further develop their ability to respond critically to print and media texts.

Prerequisite: English as a Second Language, Level 4, or equivalent

Other Courses for English Language Learners**SNC2DS, Science, ESL, Grade 10, Academic**

This course enables students to develop a deeper understanding of concepts in biology, chemistry, earth and space science, and physics; to develop further their skills in scientific inquiry; and to understand the interrelationships among science, technology, and the environment. Students will conduct investigations and understand scientific theories related to ecology and the maintenance of ecosystems; chemical reactions, with particular attention to acid-base reactions; factors that influence weather. English vocabulary and skills are taught in addition to the curriculum.

Prerequisite: None

GLC2OS, Career Studies, ESL, Grade 10, Open (0.5 Credit)

This course teaches students how to develop and achieve personal goals in education and work and contribute to their communities. Student learning will include assessing their own knowledge, skills, and characteristics and investigating economic trends, workplace organization, work opportunities, and ways to search for work. The course explores postsecondary learning options, prepares students for community-based learning, and helps them build the capabilities needed for managing work and life transitions. Students will design action plans for pursuing their goals. English vocabulary and skills are taught in addition to the curriculum.

Prerequisite: None

CHV2OS, Civics, ESL, Grade 10, Open (0.5 Credit)

This course explores what it means to be an informed, participating citizen in a democratic society. Students will learn about the elements of democracy and the meaning of democratic citizenship in local, national, and global contexts. In addition, students will learn about social change, examine decision-making processes in Canada, explore their own and others' beliefs and perspectives on civics questions, and learn how to think and act critically and creatively about public issues. English vocabulary and skills are taught in addition to the curriculum.

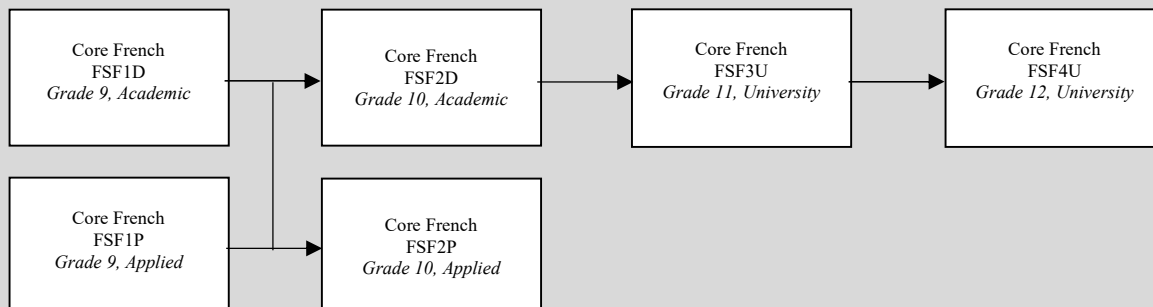
Prerequisite: None

International Languages

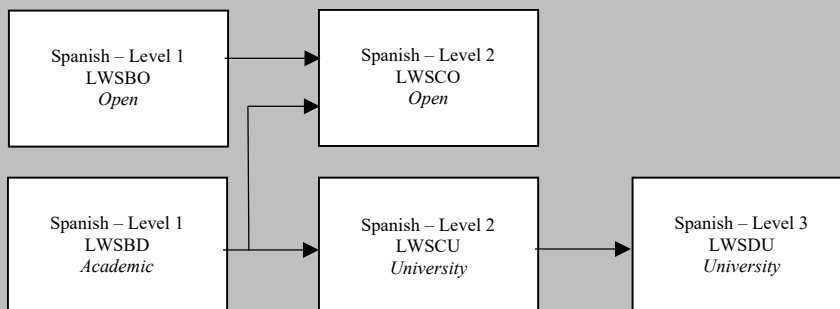
Prerequisite Charts for International Languages, Grades 9 - 12

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French as a Second Language



Spanish



FSF1D0, Core French, Grade 9, Academic

This course provides opportunities for students to communicate and interact in French with increasing independence, with a focus on familiar topics related to their daily lives. Students will develop their skills in listening, speaking, reading, and writing by using language learning strategies introduced in the elementary Core French program, and will apply creative and critical thinking skills in various ways. They will also enhance their understanding and appreciation of diverse French-speaking communities, and will develop skills necessary for lifelong language learning.

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

FSF1P0, Core French, Grade 9, Applied

This course provides opportunities for students to communicate and interact in French in structured situations, with a focus on everyday topics, and to apply their knowledge of French in everyday situations. Students will develop listening, speaking, reading, and writing skills introduced in the elementary Core French program, through practical applications and concrete examples, and will use creative and critical thinking skills in various ways. They will also enhance their understanding and appreciation of diverse French-speaking communities and will develop skills necessary for lifelong language learning.

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

FSF2D0, Core French, Grade 10, Academic

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

Prerequisite: FSF1D0 or FSF1P0 + Transfer Course

FSF2P0, Core French, Grade 10, Applied

This course provides opportunities for students to communicate in French about everyday matters and topics of personal interest in real-life situations. Students will exchange information, ideas, and opinions with others in structured, guided, and increasingly spontaneous spoken interactions. Students will develop their skills in listening, speaking, reading, and writing through using language learning strategies for understanding texts and communicating clearly. They will also increase their understanding and appreciation of diverse French-speaking communities, and will develop skills necessary for lifelong language learning.

Prerequisite: FSF1D0 or FSF1P0

FSF3U0, Core French, Grade 11, University Preparation

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

Prerequisite: FSF2D0

FSF4U0, Core French, Grade 12, University Preparation

This course provides extensive opportunities for students to speak and interact in French independently. Students will develop their listening, speaking, reading, and writing skills, apply language learning strategies in a wide variety of real-life situations, and develop their creative and critical thinking skills through responding to and interacting with a variety of oral and written texts. They will also enrich their understanding and appreciation of diverse French-speaking communities, and will develop skills necessary for lifelong language learning.

Prerequisite: FSF3U0

LWSBO0, Spanish - Level 1, Open

This course provides opportunities for students to begin to develop and apply fundamental skills in listening, speaking, reading, and writing in the language of study. Students will communicate and interact in structured activities and practical situations, with a focus on matters of personal interest and familiar topics, and will read and write simple texts in the language. Throughout the course, students will acquire a general understanding and appreciation of diverse communities in regions of the world where the language is spoken. They will also develop skills necessary for lifelong language learning.

Prerequisite: None

LWSBD0, Spanish – Level 1, Academic

This course provides opportunities for students to begin to develop and apply skills in listening, speaking, reading, and writing in the language of study. Students will communicate and interact in structured activities, with a focus on matters of personal interest and familiar topics and will read and write simple texts in the language. Throughout the course, students will acquire an understanding and appreciation of diverse communities in regions of the world where the language is spoken. They will also develop skills necessary for lifelong language learning.

Prerequisite: None

LWSCO0, Spanish - Level 2, Open

This course provides opportunities for students to develop competence and confidence in listening, speaking, reading, and writing in the language of study. Students will communicate about matters of personal interest and everyday topics in interactive settings that emphasize real-life applications, and will read and write a variety of texts of increasing complexity in the language. Students will continue to develop their understanding and appreciation of diverse communities in regions of the world where the language is spoken. They will also explore personal and professional contexts in which knowledge of the language is required, and develop skills necessary for lifelong language learning.

Prerequisite: Spanish – Level 1, Academic or Open

LWSCU0, Spanish, Level 2, University Preparation

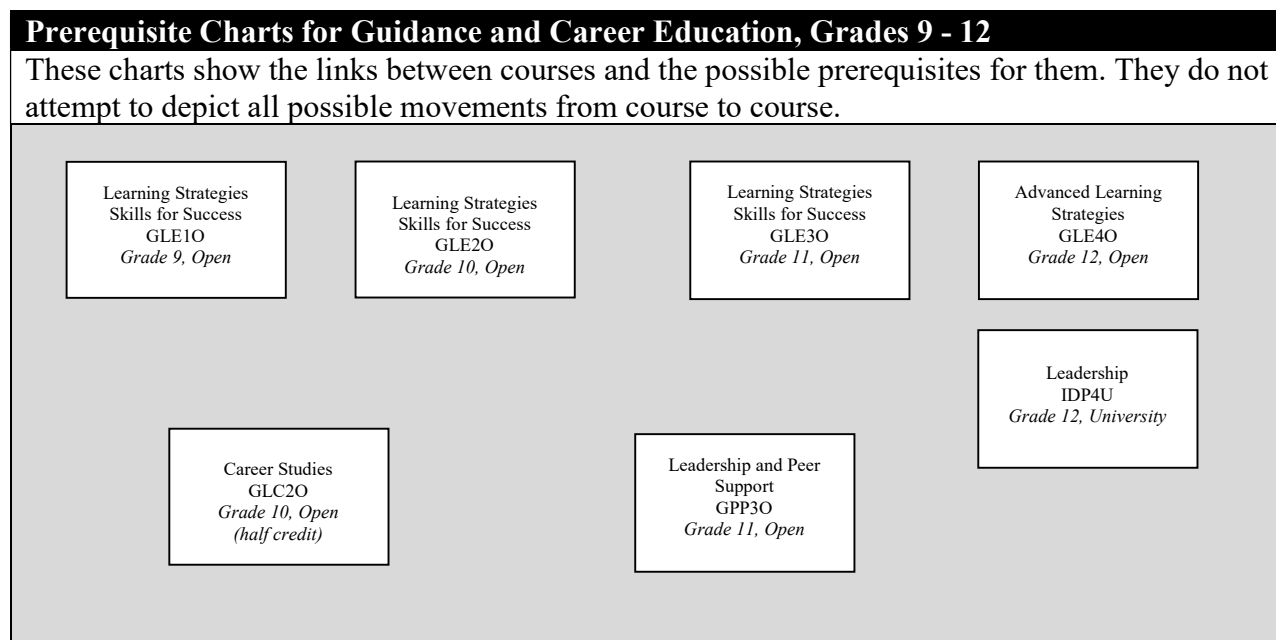
This course provides opportunities for students to increase their competence and confidence in listening, speaking, reading, and writing in the language of study. Students will communicate about academic and personally relevant topics in increasingly spontaneous spoken interactions, and will develop their creative and critical thinking skills through exploring and responding to a variety of oral and written texts. Students will continue to enrich their understanding and appreciation of diverse communities in regions of the world where the language is spoken. They will also investigate personal and professional contexts in which knowledge of the language is required, and develop skills necessary for lifelong language learning.

Prerequisite: Spanish – Level 1, Academic

LWSDU0, Spanish - Level 3, University Preparation

This course provides extended opportunities for students to communicate and interact in the language of study in a variety of social and academic contexts. Students will refine and enhance their listening, speaking, reading, and writing skills, as well as their creative and critical thinking skills, as they explore and respond to a variety of oral and written texts, including complex authentic and adapted texts. They will also broaden their understanding and appreciation of diverse communities where the language is spoken, and develop skills necessary for lifelong language learning.

Prerequisite: Spanish – Level 2, University Preparation



Guidance and Career Education

DCO300, Creating Opportunities through Co-op, Grade 11, Open

This course consists of a community-connected experience and a cooperative education curriculum focused on developing skills, knowledge, and habits of mind that will support students in their learning at school and beyond, today and in the future, as well as in their education and career/life planning. Within the context of the community-connected experience, students will apply skills, knowledge, and habits of mind that will protect and promote their health, safety, and well-being and that will strengthen their inquiry, decision-making, and leadership skills. Students will create and implement a learning plan that meets their particular interests and needs, reflect on their learning, and make connections between their experience in the community and other aspects of their lives.

Prerequisite: None

Cooperative Education Linked to a Related Course (or Courses)

This course consists of a community-connected experience and a cooperative education curriculum that incorporates relevant expectations from the student's related course (or courses). Students will develop skills, knowledge, and habits of mind that will support them in their learning at school and beyond, today and in the future, as well as in their education and career/life planning. Within the context of the community-connected experience, students will apply, extend, and refine skills and knowledge acquired in their related course or courses and will apply skills, knowledge, and habits of mind that will protect and promote their health, safety, and well-being. They will create and implement a learning plan that meets their particular interests and needs, reflect on their learning, and make connections between their experience in the community and other aspects of their lives.

Prerequisite: None

GLE10, GLE20, GLE30, GLE40 Learning Strategies: Skills for Success in Secondary School, 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. **Admission to this course is by recommendation as needed.**

GLC200, Career Studies, Open (0.5 Credit)

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 post secondary 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

GPP300, Leadership and Peer Support, 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: GLC200

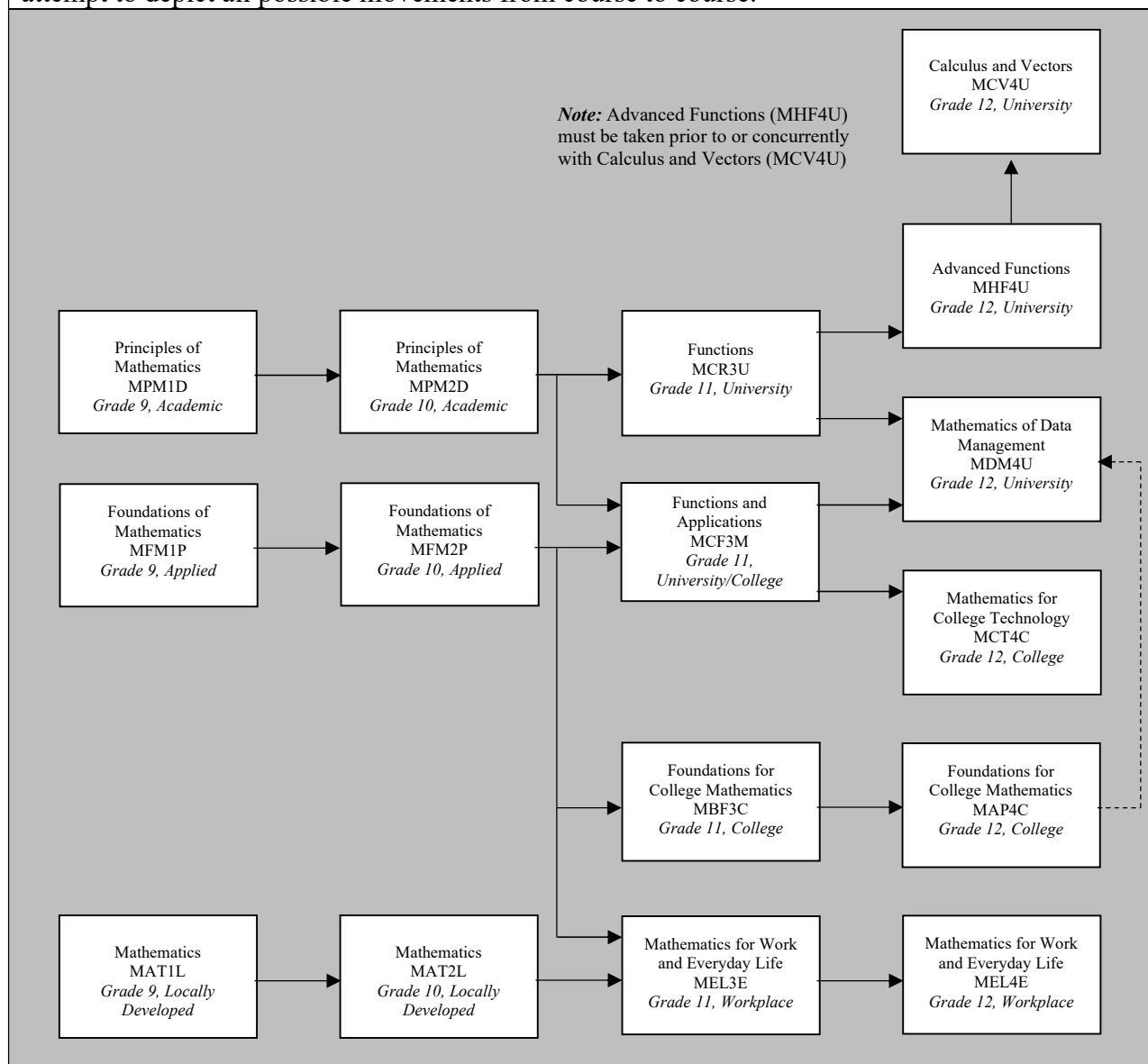
IDP4U0, Leadership Development, University Preparation

This course will introduce students to leadership theories as they pursue leadership roles in the school and community. Students will study and apply theory in developing skills in the areas of conflict resolution, planning and goal setting, problem solving, group dynamics and teamwork. Students will develop their own philosophy of leadership as well as essential skills and knowledge to support them in pursuing a variety of leadership roles. This course will help students develop and consolidate the practical 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 range of print, electronic, and mass media resources and to investigate real-life situations and career opportunities in interdisciplinary endeavor. They will also learn how to select strategies to define problem, research alternative solutions, assess their thinking in reaching decisions, and adapt to change as they acquire new knowledge.

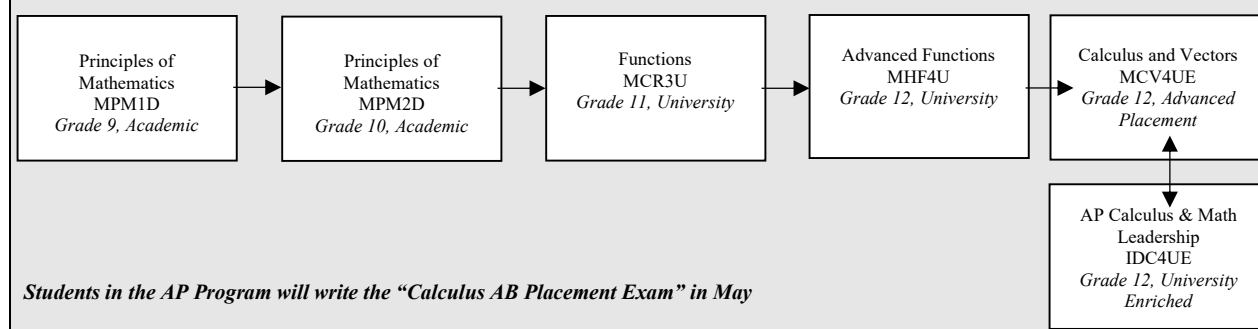
Prerequisite: Any senior English

Prerequisite Charts for Mathematics, Grades 9 - 12

These charts show the links between courses and the possible prerequisites for them. They do not attempt to depict all possible movements from course to course.



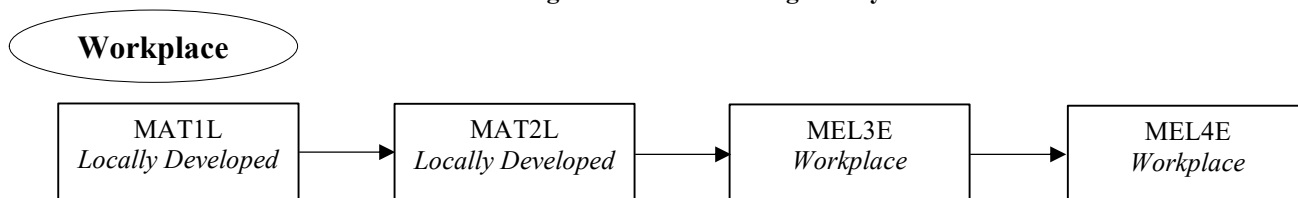
Advanced Placement Calculus (AP)



Mathematics

At Bayridge Secondary School, we believe that all students can learn and apply mathematics. Choosing the best course and pathway plays an important role in ensuring that students have a positive experience in mathematics and that they achieve success.

MATH IS THE PATH! Choosing the course that is right for you...



The Math courses offered in the Workplace pathway are intended for students who have *significant difficulty in mathematics AND who do not intend to study mathematics at any post secondary institution in the future*. Many University and College programs do not require mathematics for acceptance. Sometimes, a math course at the grade 12 level is recommended, but not required.

Learning Style: essential and practical topics, concrete and visual models, real-life contexts

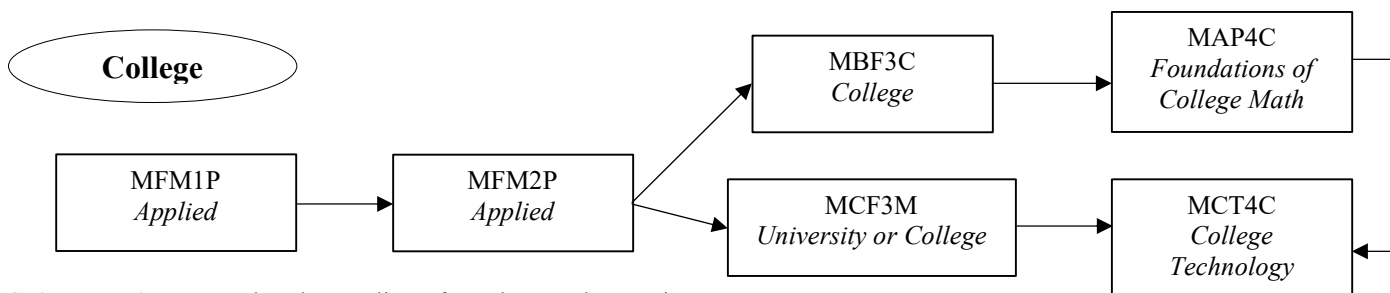
Some programs that do NOT have a grade 12 math prerequisite:

College

- | | | |
|-------------------------|------------------------------|--|
| ✓ Law Clerk | ✓ Television | ✓ Horticultural & Landscape Technician |
| ✓ Radio | ✓ Travel & Tourism | ✓ Law & Security Administration |
| ✓ Fine Art | ✓ Theatre Arts | ✓ Early Childhood Education |
| ✓ Office Administration | ✓ Hotel Management | ✓ Culinary Arts |
| ✓ Child & Youth Worker | ✓ Food & Beverage Management | |
| ✓ Broadcasting | | |

University

- | | | |
|---------------|--------------|-------------|
| ✓ English | ✓ Philosophy | ✓ Fine Arts |
| ✓ Law | ✓ Journalism | ✓ History |
| ✓ Social Work | ✓ Languages | ✓ Theology |



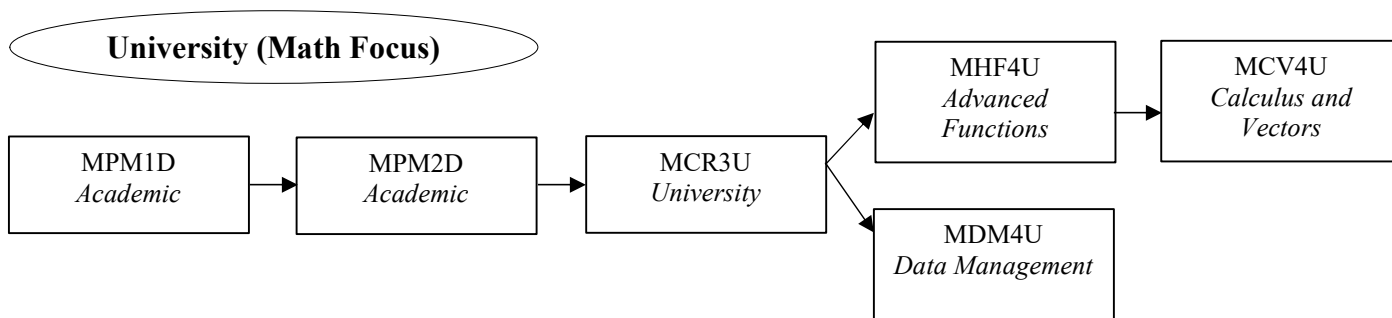
Skills Required: Good understanding of numbers and operations

Learning Style: focus on essential concepts, practical applications, concrete examples, illustration of ideas, hands-on applications

Some College Programs

- | | |
|---|--|
| ✓ Engineering Technology (Computer, Civil Electrical) | ✓ Chef Management |
| ✓ Pre-service Firefighter | ✓ Accounting/Marketing/Financial Services |
| ✓ Computer Analyst/Programmer or System Analyst | ✓ Construction Engineering Technician |
| ✓ Manufacturing Engineer | ✓ Food & Beverage Management |
| ✓ Science Lab Technician | ✓ Design (Graphic, Fashion, Interior, Landscape) |
| ✓ General Metal Machinist | ✓ Dental Hygienist/Assistant |
| ✓ Construction/Carpentry/Woodworking | ✓ Paramedic/Pharmacy Technician |
| ✓ Manufacturing Technician | ✓ Medical Radiation Technology |
| ✓ Industrial Maintenance Mechanic | ✓ Pharmacy Assistant |

*Note: Many **apprenticeships** require that students study courses at college that may include mathematics.*



Skills Required: Excellent number sense, the ability to work flexibly with a wide range of numbers both mentally and with technical support

Learning Style: study of theory and abstract problems, focus on essential concepts, exploration of related concepts, incorporation of practical applications

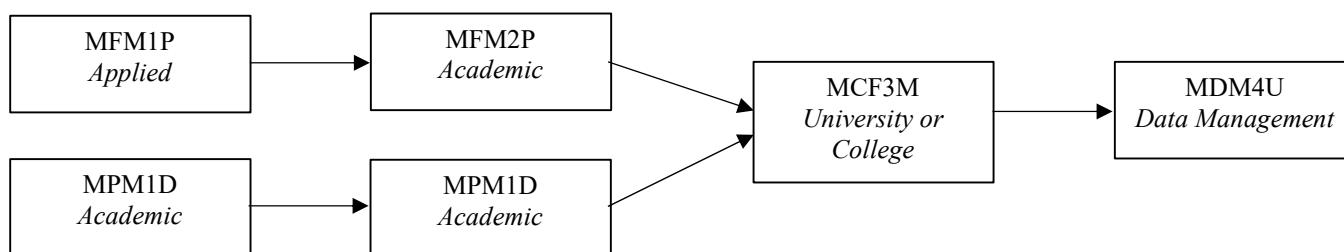
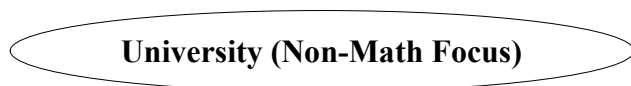
Some University Programs

Heavy Mathematics Focus

- ✓ Engineering
- ✓ Mathematics (Pure & Applied)
- ✓ Accounting
- ✓ Sciences (Biology, Chemistry, Physics, Agriculture, etc.)
- ✓ Computer Science & Device Technology
- ✓ Forensics
- ✓ Human Kinetics
- ✓ Architecture

Some Focus on Mathematics

- ✓ Business
- ✓ Economics
- ✓ Kinesiology
- ✓ Health Science
- ✓ Physical Geography/Environmental Science
- ✓ Social Science: Economics focus
- ✓ Psychology: Science focus



Skills Required: Excellent number sense, the ability to work flexibly with a wide range of numbers both mentally and with technical support

Learning Style: study of theory and abstract problems, focus on essential concepts, exploration of related concepts, incorporation of practical applications

Some University Programs

- | | |
|--------------------------------|------------------------------|
| ✓ Psychology | ✓ Human Resources Management |
| ✓ Sociology | ✓ Landscape Architecture |
| ✓ Elementary Teacher Education | ✓ Administrative Studies |
| ✓ Geography (Physical) | ✓ Nursing |

Note: This information has been obtained from information available through a variety of college and University course calendars. This information is designed as an introductory guide only. Check with your guidance counsellor to obtain current information about specific courses and their requirements.

Courses

MPM1D0, Principles of Mathematics, Academic

This course enables students to develop an understanding of the mathematical concepts related to algebra, analytic 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 relationship. They will also explore relationships that emerge from the measurement of three-dimensional objects and two-dimensional shapes. Students will reason mathematically and communicate their thinking as they solve multi step problems.

Prerequisite: None

MFM1P0, Foundations of Mathematics, Applied

This course enables students to develop 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 relationships, and will determine the connections between the representations. They will also explore certain relationships that emerge from the measurement of three-dimensional objects and two-dimensional shapes. Students will consolidate their mathematical skills as they solve problems and communicate their thinking.

Prerequisite: None

MAT1L0, Mathematics, Locally Developed

This course emphasizes further development of mathematical knowledge and skills to prepare students for success in their everyday lives, in the workplace, in the Grade 10 LDCC course, and in the Mathematics Grade 11 and Grade 12 Workplace Preparation courses. The course is organized by three strands related to money sense, measurement, and proportional reasoning. In all strands, the focus is on developing and consolidating key foundational mathematical concepts and skills by solving authentic, everyday problems. Students have opportunities to further develop their mathematical literacy and problem-solving skills and to continue developing their skills in reading, writing, and oral language through relevant and practical math activities.

Prerequisite: None

MPM2D0, Principles of Mathematics, 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 relationships 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 as they solve multi-step problems and communicate their thinking.

Prerequisite: MPM1D0 or MFM1P0 + Transfer Course

MFM2P0, Foundations of Mathematics, Applied

This course enables students to consolidate their understanding of relationships 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 relationships. Students will investigate similar triangles, the trigonometry of right-angled triangles, and the measurement of three-dimensional objects. Students will consolidate their mathematical skills as they solve problems and communicate their thinking.

Prerequisite: MPM1D0 or MFM1P0

MAT2L0, Mathematics, Locally Developed

This course emphasizes the extension of mathematical knowledge and skills to prepare students for success in their everyday lives, in the workplace, and in the Mathematics Grade 11 and Grade 12 Workplace Preparation courses. The course is organized by three strands related to money sense, measurement, and proportional reasoning. In all strands, the focus is on strengthening and extending key foundational mathematical concepts and skills by solving authentic, everyday problems. Students have opportunities to extend their mathematical literacy and problem-solving skills and to continue developing their skills in reading, writing, and oral language through relevant and practical math activities.

Prerequisite: MFM1P0 or MAT1L0

MCR3U0, 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; and develop facility in simplifying polynomial and rational expressions. Students will reason mathematically and communicate their thinking as they solve multi-step problems.

Prerequisite: MPM2D0

MCF3M0, 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 financial and trigonometric applications. Students will reason mathematically and communicate their thinking as they solve multi-step problems.

Prerequisite: MPM2D0 or MFM2P0

MBF3C0, 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, as well as of measurement and geometry; investigate situations involving exponential growth; solve problems involving compound interest; solve financial problems connected with vehicle ownership; and develop their ability to reason by collecting, analyzing, and evaluating data involving one and two variables. Students will consolidate their mathematical skills as they solve problems and communicate their thinking.

Prerequisite: MFM2P0

MEL3E0, 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: MFM1P0 or MAT2L0

MDM4U0, 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 large amounts of information; solve problems involving probability and statistics; and carry out a culminating project that integrates statistical concepts and skills. Students will also refine their use of the mathematical processes necessary for success in senior mathematics. Students planning to enter university programs in business, the social sciences, and the humanities will find this course of particular interest.

Prerequisite: MCR3M0 or MCR3U0

MHF4U0, 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; broaden their understanding of rates of change; and develop facility in applying these concepts and skills. Students will also refine their use of the mathematical processes necessary for success in senior mathematics. This course is intended both for students who plan to study mathematics in university and for those wishing to consolidate their understanding of mathematics before proceeding to any one of a variety of university programs.

Prerequisite: MCR3U0 or MCT4C0

MCT4C0, Mathematics for College Technology, Grade 12, College Preparation

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

Prerequisite: MCF3M0 or MCR3U0

MAP4C0, 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; 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: MBF3C0

MEL4E0, 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 and create household budgets; use proportional reasoning; estimate and measure; and apply geometric concepts to create designs. Students will consolidate their mathematical skills as they solve problems and communicate their thinking.

Prerequisite: MEL3E0

MCV4U0, 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, rational, exponential, and sinusoidal functions; and apply these concepts and skills to the modelling of real-world relationships. Students will also refine their use of the mathematical processes necessary for success in senior mathematics. This course is intended for students who plan to study mathematics in university and who may choose to pursue careers in fields such as physics and engineering.

Prerequisite: MHF 4U0

Note: It may be necessary to take the prerequisite course concurrently with MCV4U.

MCV4UE, Calculus and Vectors ADVANCED PLACEMENT, Grade 12, University Preparation (Enriched)

Note: This unique course not only covers the Ontario Calculus curriculum, but also the curriculum as indicated by the College Board in the U.S.A. covering many topics in first year Calculus at University. Successful completion of this course gives students special standing at most universities worldwide. Students will be required to attend classes outside of regular class time.

This course builds on students' previous experience with functions and their developing understanding of rates of change. Students will solve problems involving geometric and algebraic representations of vectors, and representations of lines and planes in three-dimensional space; broaden their understanding of rates of change to include the derivatives of polynomial, rational, exponential, and sinusoidal functions; and apply these concepts and skills to the modelling of real-world relationships. Students will also refine their use of the mathematical processes necessary for success in senior mathematics.

Prerequisite: Functions, Grade 11, University Preparation Enriched, and Advanced Functions, Grade 12, University Preparation (Note: May be taken concurrently with Advanced Functions with permission of the Department).

IDC4UE, Mathematical Leadership, Grade 12, University Preparation (Enriched)

The Advanced Placement (AP) Calculus AB component of the course is designed to help students develop a conceptual understanding of university-level calculus content, as well as proficiency in the skills and practices needed for mathematical reasoning and problem solving. At the end of this course, students will be prepared to write the AP Calculus AB Exam. In addition, this course provides students with leadership opportunities in the area of academics, with a focus on mathematics. Students will organize and run math enrichment events for intermediate/junior students and have the opportunity to be peer mentors to students needing extra support or enrichment in mathematics. Students planning to pursue university and college programs with a mathematics and/or education focus will find this course of particular interest.

Note: This course is taken in the same year as the MCV4UE course. Students should choose BOTH courses during course selection.

Prerequisite: Functions, Grade 11, University Preparation Enriched, and Advanced Functions, Grade 12, University Preparation (Note: May be taken concurrently with Advanced Functions with permission of the Department).

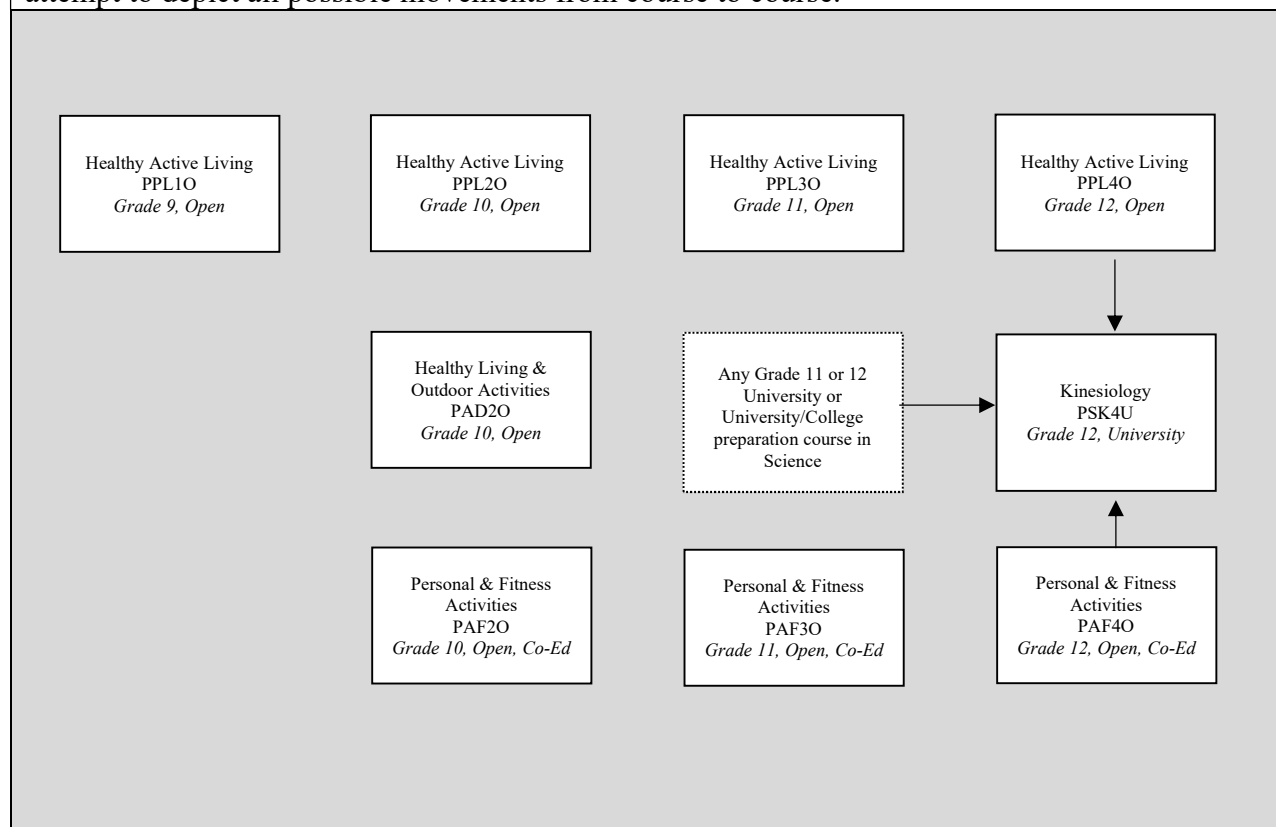
Recommended Course Pathway Options for AP Calculus Stream

Option 1	Option 2
Grade 9: MPM1D0	Grade 9: MPM1D0
Grade 10: MPM2D0 in semester 1	Grade 10: MPM2D0 in semester 1
MCR3U0 in semester 2	Grade 11: MCR3U0 in semester 1
Grade 11: MHF4U0	MHF4U0 in semester 2
Grade 12: MCV4U0 in semester 1	Grade 12: MCV4U0 in semester 1
IDC4UE in semester 2	IDC4UE in semester 2
+MDM4U0 in Grade 11 or Grade 12	+MDM4U0 in Grade 11 or Grade 12

****Please note that for students who have not fast tracked through math courses, it is still possible to take MHF4U0 and MCV4U0 concurrently in semester 1 of Grade 12.**

Prerequisite Charts for Health & Physical Education, Grades 9 - 12

These charts show the links between courses and the possible prerequisites for them. They do not attempt to depict all possible movements from course to course.



Physical and Health Education

PPL100, Healthy Active Living Education, Grade 9, Open, Co-Ed

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

Prerequisite: None

PPL20, Healthy Active Living Education, Grade 10, Open

This course enables students to further develop the knowledge and skills they need to make healthy choices now and lead healthy, active lives in the future. Through participation in a wide range of physical activities, students develop knowledge and skills related to movement competence and personal fitness that provide a foundation for active living. Students also acquire an understanding of the factors and skills that contribute to healthy development and learn how their own well-being is affected by, and affects, the world around them. Students build their sense of self, learn to interact positively with others, and develop their ability to think critically and creatively. **PPL20G – Female; PPL20B – Male**

Prerequisite: None

PAD200, Healthy Living and Outdoor Activities, Grade 10, Open, Co-Ed

Outdoor Education is a Healthy Active Living emphasis course designed to provide the opportunity for students to gain competency in outdoor and adventure skills while at the same time developing a sense of responsibility for the state of our environment and how to enjoy it responsibly. Furthermore, the course aims to develop important teamwork and leadership skills through activities that require effective group dynamics and trust among peers. Students will develop an idea of what it means to follow a healthy, active lifestyle through outdoor activities, as well as develop decision-making and leadership skills.

Prerequisite: None

PAF200, Personal and Fitness Activities - Power Fit, Grade 10, Open, Co-Ed

This course emphasizes regular participation in a variety of physical fitness activities that promote lifelong healthy active living. Students will learn ways to improve personal fitness levels and set goals. Students will examine issues related to healthy sexuality, healthy eating, substance use and abuse; and the use of informed decision-making, conflict-resolution, and social skills in making personal choices.

Prerequisite: None

PPL30, Healthy Active Living Education, Grade 11, Open

This course enables students to further develop the knowledge and skills they need to make healthy choices now and lead healthy, active lives in the future. Through participation in a wide range of physical activities and exposure to a broader range of activity settings, students enhance their movement competence, personal fitness, and confidence. Students also acquire an understanding of the factors and skills that contribute to healthy development and learn how their own well-being is affected by, and affects, the world around them. Students build their sense of self, learn to interact positively with others, and develop their ability to think critically and creatively. **PPL30G – Female; PPL30B – Male**

Prerequisite: None

PAF300, Personal and Fitness Activities - Power Fit, Grade 11, Open, Co-Ed

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

Prerequisite: None

PAF400, Personal and Fitness Activities - Power Fit, Grade 12, Open, Co-Ed

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

Prerequisite: None

PPL40, Healthy Active Living Education, Grade 12, Open

This course enables students to further develop the knowledge and skills they need to make healthy choices. It places special emphasis on how students can maintain the habits of healthy, active living throughout their lives as they make the transition to adulthood and independent living. Through participation in a wide range of physical activities in a variety of settings, students can enhance their movement competence, personal fitness, and confidence. Students also acquire an understanding of the factors and skills that contribute to healthy development and learn how their own well-being is affected by, and affects, the world around them. Students build their sense of self, learn to interact positively with others, and develop their ability to think critically and creatively.

PPL40G – Female; PPL40B – Male

Prerequisite: None

PSK4U0, Introductory Kinesiology, Grade 12, University Preparation (offered every other year)

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

Prerequisite: Students must also enroll in any Grade 11 University or College/University preparation course in Science, or any Grade 11 or 12 course in Health and Physical Education over the course of the same school year.

School to Community

Overview of School to Community Services

School to Community at the secondary level is a program for students with developmental disabilities. A course of study is developed with the goal of enabling students to live meaningful lives in their community after graduation. An Individual Education Plan (IEP) continues to be provided for each student based on his/her strengths and needs. The IEP for students, who are fourteen years of age or older, must also contain a plan to make the transition to post-secondary education, apprenticeship programs, or the workplace, and to help them live as independently as possible in the community. Orientation to secondary school begins for students during their last year of elementary school through a personalized transition process. The secondary school program provides opportunities for inclusion in the academic and social life of the school. The emphasis of the students' program will gradually evolve so that by their senior years, more community-based opportunities are available. The areas of study may include modifications to curriculum (non-credit courses) and accommodations to the secondary courses (see course descriptions within the calendar) for credit, as well as alternative courses of study (K courses). The * asterisk in the course description refers to grade level which varies ("A" for Grade 9, "B" for Grade 10, and so forth). For students participating in other courses listed in the course calendar and not working toward credit, the code for that course would be used with a K as the sixth identifier. For students working toward a credit, the course code would remain as listed in the course calendar.

Course Calendar for K-Coded Courses

KAL 1 – Creative Arts for Enjoyment and Expression – Visual Art

This course involves the exposure to a variety of visual art forms. The IEP becomes the definition of the course and may include components from the following program areas: Art Appreciation, Creative Expression, Application, Use of Materials and Processes, Design, and Composition, and Independence in Participation.

KAL 2 – Creative Arts for Enjoyment and Expression – Instrumental or Vocal Music

This course involves the exposure to instrumental or vocal music as an art form. The IEP becomes the definition of the course and may include components from the following program areas: Appreciation of Music, Expression of Creativity, Vocal and/or Instrumental Music, and Independence in Participation.

KAL 3 – Creative Arts for Enjoyment and Expression – Dramatic Arts

This course involves the exposure to a variety of dramatic art forms. The IEP becomes the definition of the course and may include components from the following program areas: Appreciation of Drama as an Art Form, Expression of Creativity, Dramatic Performances, and Independence in Participation.

KBB – Money Management and Personal Banking

This course includes the development of personal banking skills which may include: using concrete materials to represent money amounts, equivalent values of coins, making change, computing totals for purchases and managing a bank account, developing a personal budget. The IEP becomes the definition of the course and may include components from the following program areas: Management of Personal Finances, Banking Procedures, and Saving and/or Investments.

KCC – Transit Training and Community Exploration

This course encourages the development of skills related to public safety, transportation and knowledge of the community, which may include: bus training, recognizing traffic signs and symbols and warning and safety signs. The IEP becomes the definition of the course and may include components from the following program areas: Traffic Safety, Access Public Transit, Bus Routes, Map and Scheduling Reading, and Safety in the Community with the goal of maximizing independence in accessing community resources.

KCW – Exploring Our World

This course encourages students to: recognize that communities consist of various physical features and community facilities that meet human needs, describe how people in the community interact with each other. Students develop an awareness of the immediate community in relationship to the greater local, regional, national and/or global community. The IEP becomes the definition of the course and may include components from the following program areas: Community Awareness, Citizenship and Community Involvement, and Accessing Community Services.

KEN – Language and Communication Development

This course involves the development of receptive and expressive communication skills. The focus will be on the development of functional literacy skills in viewing, reading and writing. The IEP becomes the definition of the course and may include components from the following program areas: Listening and Comprehension Skills, Non-Verbal Communication, Social Language, General Language Functions, Expressive Language, Receptive Language, Conversation Skills, and Functional Language.

KGL – Personal Life Skills

This course involves the development of general knowledge, social communication, vocational skills and skills related to daily living in order to maximize independence both now and in the future. The IEP becomes the definition of the course and may include components from the following program areas: Self-help skills; Personal Management, Problem Solving, Interpersonal Relationships, Vocational Skills, and Social Communication.

KGW – Exploring the World of Work

This course involves the development of pre-vocational and vocational skills related to employment which may include: job searching skills; work etiquette; documentation related to work (filling out forms, taxes, payroll, schedules, etc...) in order to maximize independence. The IEP becomes the definition of the course and may include components from the following program areas: Job Searching Skills, Specific Workplace Skills, Work Etiquette, Documentation, and Cooperative Workplace Education.

KHD – Social Skills Development

This course involves the development of self-awareness and social skills in order to enhance relationships with family, friends and others. This course encourages students to demonstrate a sense of identity and a positive self-image and to demonstrate an ability to use problem-solving skills in a variety of social contexts. The IEP becomes the definition of the course and may include components from the following program areas: Communication Skills, Emotional Self-Regulation, Positive Conflict Resolution, Decision Making, and Social Problem Solving.

KHI – Culinary Skills

This course involves the development of food preparation skills. This course encourages the development of skills related to food preparation, which may include; reading food labels, meal-planning and preparation, reading recipes, food vocabulary, eating etiquette, and food safety and sanitation. The IEP becomes the definition of the course and may include components from the following program areas: Healthy Food Habits, Meal Planning, Safe Food Handling, Sage Use of Utensils and Equipment.

KMM – Numeracy and Numbers

This course encourages students to demonstrate an understanding of number concepts, using concrete materials to explore and investigate counting, quantity and number relationships, and the development of basic numeracy skills required for daily living. The IEP becomes the definition of the course and may include components from the following program areas: Calendar Skills, Time, Numeracy, Measurement, Geometric Shapes, and Numbers and Counting. The primary goal is to enhance independence in daily living in a variety of settings including home, school, the community, and workplace.

KNA – First Canadians

This course involves the development of an understanding of First Nations peoples and their culture, which may include language, folklore, dance and food. The IEP becomes the definition of the course and may include components from the following program areas: Understanding Universal Physical Needs, Life as a Cycle, and Understanding Native Communities,

KPF – Personal Health and Fitness

This course is based on developing an understanding of the importance of being physically active and participating on a regular basis in physical activities that maintain or improve physical fitness. This may include the development of movement and coordination (gross motor) and/or the development of small muscles. The IEP becomes the definition of the course and may include components from the following program areas: Pre-ambulatory Skills, Basic Movement Skills, Basic Gross Motor Skills, Wheelchair Training and/or Fitness Skills.

KPH – Choice Making for Healthy Living

This course may involve the development of healthy eating habits, recognizing safety risks and demonstrating safe practices. The IEP becomes the definition of the course and may include components from the following program areas: Healthy Lifestyle Choices, Awareness of Hazards in Social, School and/or Work Environment, and Accident Prevention. The primary goal is to develop the skills to make choices that enhance physical, social, and emotional well being.

KPP - Self Help and Self Care

This course involves the development of skills for independent living that promote independence. The IEP becomes the definition of the course and may include components from the following program areas: Personal Hygiene, Grooming, Dressing, Shopping, Preparing Food, Laundry, Care of Personal Belongings, and Personal Space.

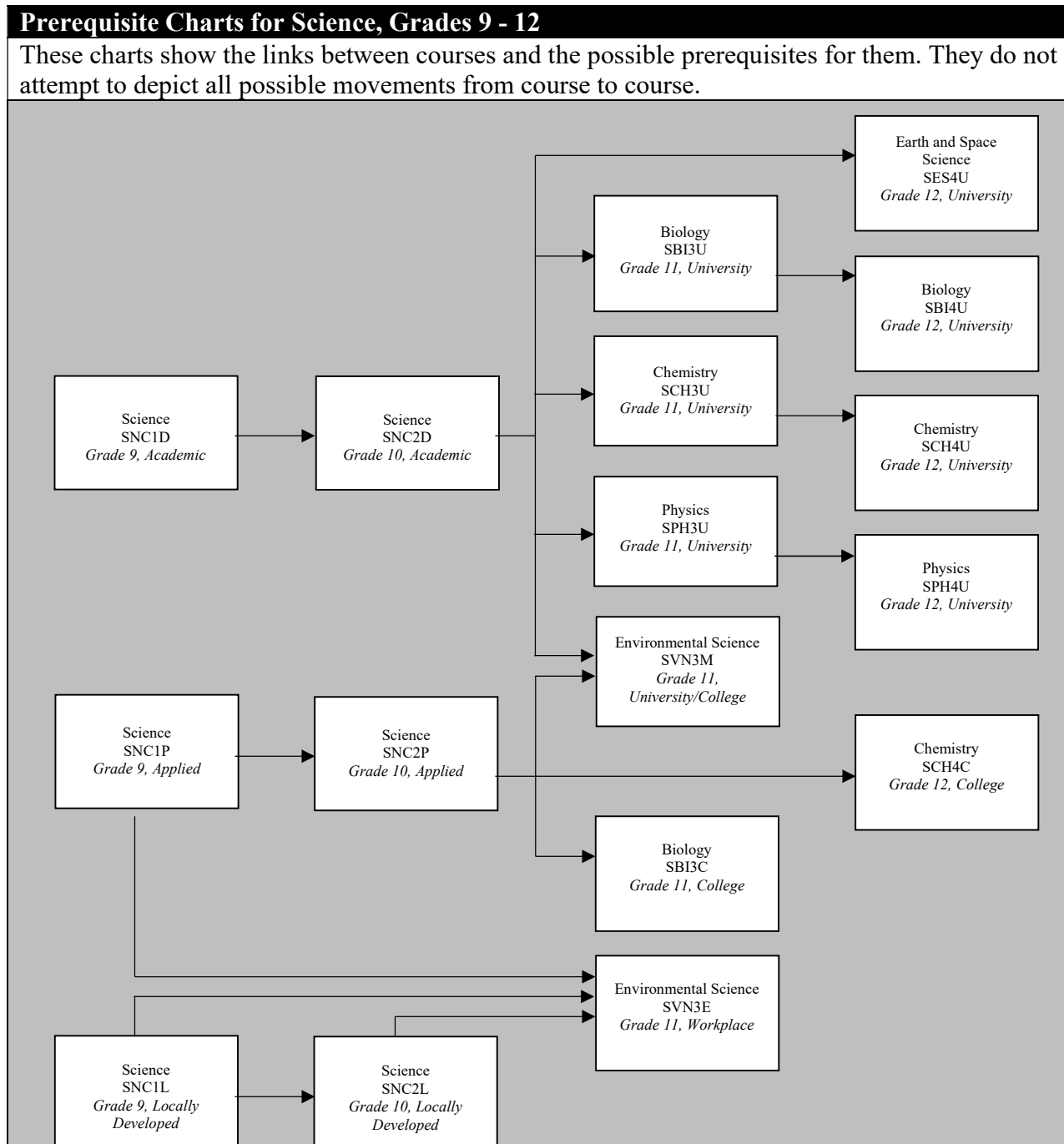
KSN – Exploring Our Environment

This course is based on developing an understanding of how the environment affects people's lives and the ways in which their needs are met. The IEP becomes the definition of the course and may include components from the following program areas: Caring for the Environment, Understanding the Weather, and The 3Rs (reduce, recycle, reuse). Students will have the opportunity to understand how they can affect the environment and how the environment affects them.

KTT – Computer Skills

This course encourages the development of independent computer skills, which may include: keyboarding, using a tablet, printer or other peripheral devices (mouse, modem, scanner, etc.,) while developing greater proficiency with various software titles (MS Office, speech-to-text software, text-to-speech software). The IEP becomes the definition of the course and may include components from the following program areas: Independent Computer Use, Accessing Appropriate Programs, Computers in the Classroom, and Assistive Technologies for Learning and Leisure.

SCIENCE



Science

SNC1D0, 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

SNC1P0, 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

SNC1L0, Science, Grade 9, Locally Developed (Offered every other year)

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

SNC2D0, 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: SNC1D0 or SNC1P0

SNC2P0, 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: SNC1D0 or SNC1P0

SNC2L0, Science, Grade 10, Locally Developed (Offered every other year)

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

SBI3U0, 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: SNC2D0

SBI3C0, Biology, Grade 11, College Preparation (Offered every other year)

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: SNC2P0 or SNC2D0

SCH3U0, 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: SNC2D0

SPH3U0, 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 analyse the interrelationships between physics and technology, and consider the impact of technological applications of physics on society and the environment.

Prerequisite: SNC2D0

SVN3M0 Environmental Science, Grade 11, University/College Preparation

This course provides students with the fundamental knowledge of and skills relating to environmental science that will help them succeed in life after secondary school. Students will explore a range of topics, including the role of science in addressing contemporary environmental challenges; the impact of the environment on human health; sustainable agriculture and forestry; the reduction and management of waste; and the conservation of energy. Students will increase their scientific and environmental literacy and examine the interrelationships between science, the environment, and society in a variety of areas.

Prerequisite: SNC2P0 or SNC2D0

SVN3E0, Science, Grade 11, Workplace Preparation

This course provides students with the fundamental knowledge of and skills relating to environmental science that will help them succeed in work and life after secondary school. Students will explore a range of topics, including the impact of human activities on the environment; human health and the environment; energy conservation; resource science and management; and safety and environmental responsibility in the workplace. Emphasis is placed on relevant, practical applications and current topics in environmental science, with attention to the refinement of students' literacy and mathematical literacy skills as well as the development of their scientific and environmental literacy.

Prerequisite: SNC2L0, SNC2P0 or SNC2D0

SBI4U0, 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: SBI3U0

SCH4U0, 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: SCH3U0

SCH4C0, Chemistry Grade 12, College Preparation (offered every other year)

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: SNC2P0 or SNC2D0

SPH4U0, 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: SPH3U0

SES4U0, Earth and Space Science, Grade 12, University Preparation

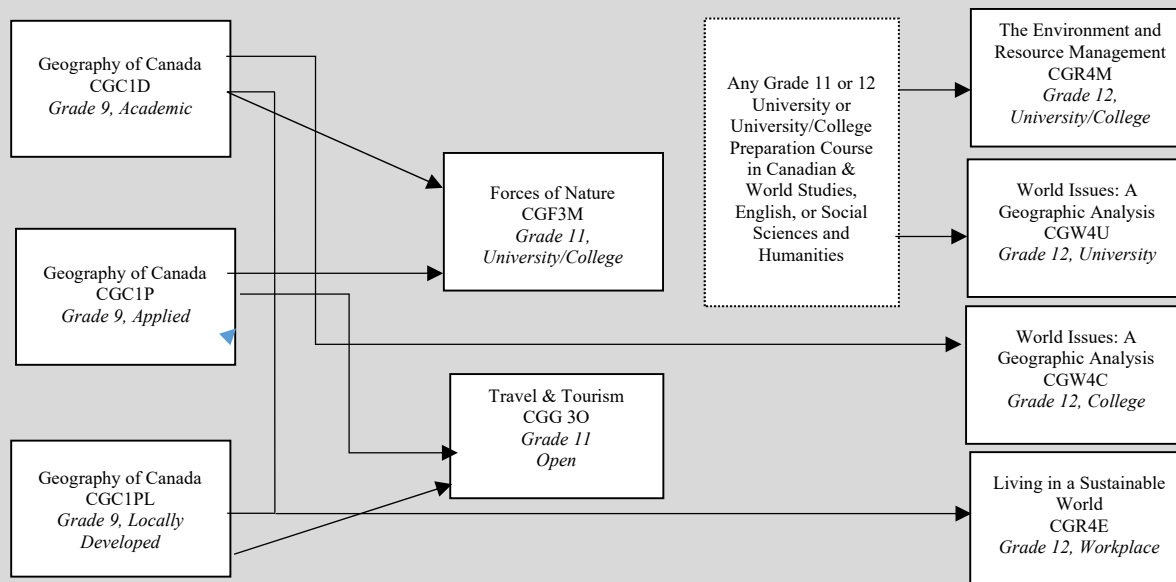
This course develops students' understanding of Earth and its place in the universe. Students will investigate the properties of and forces in the universe and solar system and analyse techniques scientists use to generate knowledge about them. Students will closely examine the materials of Earth, its internal and surficial processes, and its geological history, and will learn how Earth's systems interact and how they have changed over time. Throughout the course, students will learn how these forces, processes, and materials affect their daily lives. The course draws on biology, chemistry, physics, and mathematics in its consideration of geological and astronomical processes that can be observed directly or inferred from other evidence.

Prerequisite: SNC2D0

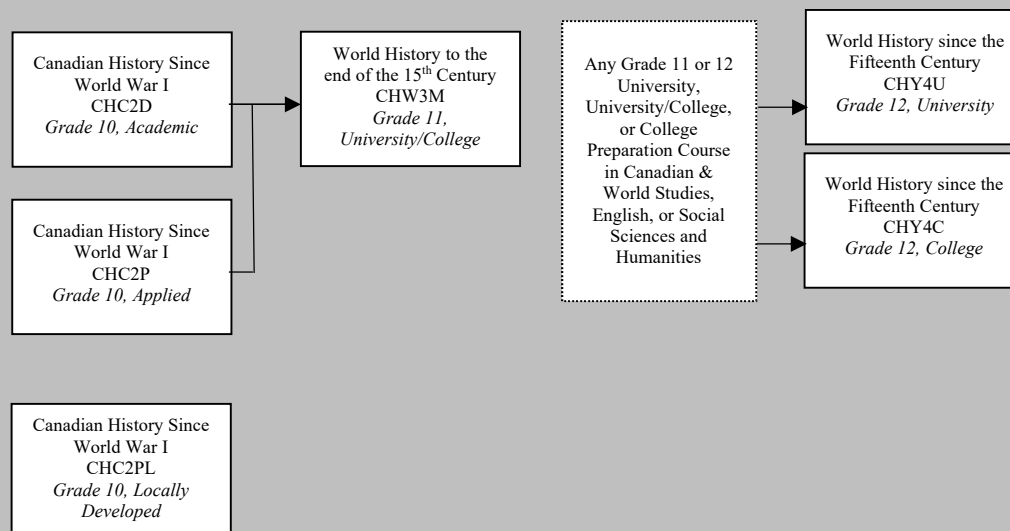
Prerequisite Charts for Social Sciences, Humanities, Canadian & World Studies, Grades 9 - 12

These charts show the links between courses and the possible prerequisites for them. They do not attempt to depict all possible movements from course to course.

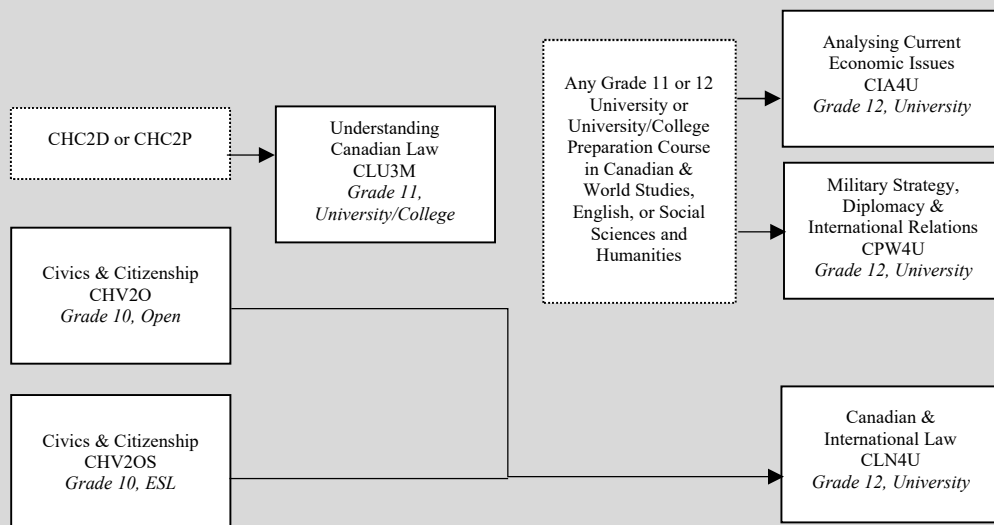
Canadian & World Studies – Geography



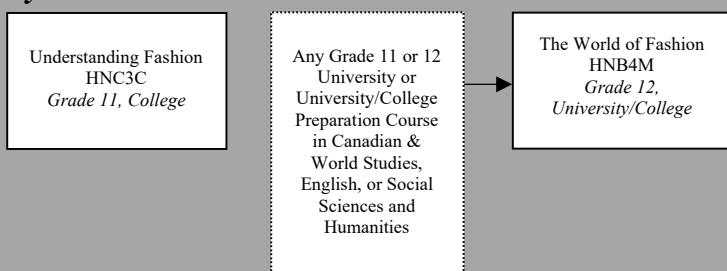
Canadian & World Studies - History



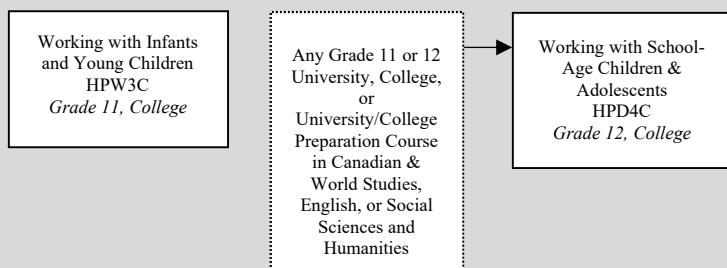
Canadian & World Studies – Economics, Law & Politics



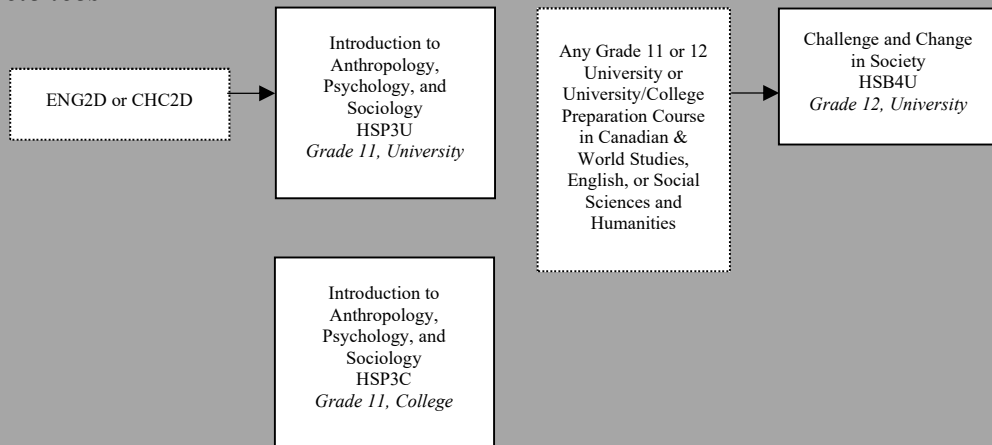
Social Sciences & Humanities – Family Studies – Fashion



Social Sciences & Humanities – Family Studies – Raising and Caring for Children

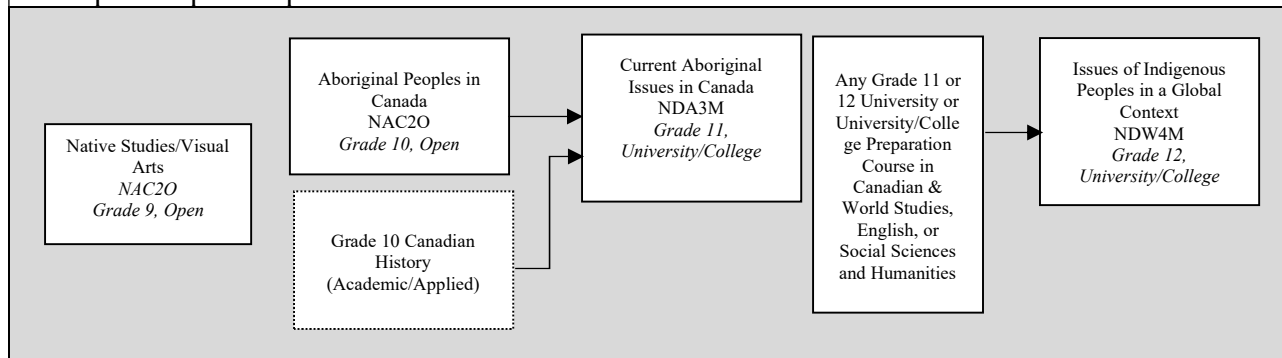


General Social Sciences



Prerequisite Charts for Indigenous Studies, Grades 10 - 11

These charts show the links between courses and the possible prerequisites for them. They do not attempt to depict all possible movements from course to course.



Social Science, Humanities, Canadian and World Studies

Canadian & World Studies - Geography

CGC1D0, Issues in Canadian Geography, Grade 9, Academic

This course examines interrelationships within and between Canada's natural and human systems and how these systems interconnect with those in other parts of the world. Students will explore environmental, economic, and social geographic issues relating to topics such as transportation options, energy choices, and urban development. Students will apply the concepts of geographic thinking and the geographic inquiry process, including spatial technologies, to investigate various geographic issues and to develop possible approaches for making Canada a more sustainable place to live.

Prerequisite: None

CGC1P0, Issues in Canadian Geography, Grade 9, Applied

This course focuses on current geographic issues that affect Canadians. Students will draw on their personal and everyday experiences as they explore a range of issues relating to food and water supplies, competing land uses, interactions with the natural environment, and other topics relevant to sustainable living in Canada. They will also develop an awareness that issues that affect their lives in Canada are interconnected with issues in other parts of the world. Throughout the course, students will use the concepts of geographic thinking, the geographic inquiry process, and spatial technologies to guide and support their investigations.

Prerequisite: None

CGG 300, Travel & Tourism, Grade 11, Open

This course focuses on issues related to travel and tourism within and between various regions of the world. Students will investigate unique environmental, sociocultural, economic, and political characteristics of selected world regions. They will explore travel patterns and trends as well as tensions related to tourism, and will predict future tourism destinations. Students will apply the concepts of geographic thinking and the geographic inquiry process, including spatial technologies, to investigate the impact of the travel industry on natural environments and human communities. Travel the world through the investigation of a variety of issues of the tourism industry! You will virtually travel to various destinations each week – this is a must-take course for those of you who enjoy learning about the world!

Prerequisite: CGC1D0 or CGC1P0

CGF3M0, Forces of Nature: Physical Processes and Disasters, Grade 11, University/College Preparation

This course will explore physical processes related to the earth's water, land, and air. Students will investigate how these processes shape the planet's natural characteristics and affect human systems, how they are involved in the creation of natural disasters, and how they influence the impacts of human disasters. Throughout the course, students will apply the concepts of geographic thinking and the geographic inquiry process and use spatial technologies to analyse these processes, make predictions related to natural disasters, and assess ways of responding to them.

Prerequisite: CGC1D0 or CGC1P0

CGW4U0, World Issues: A Geographic Analysis, Grade 12, University Preparation

This course looks at the global challenge of creating a more sustainable and equitable world. Students will explore a range of issues involving environmental, economic, social justice, and geopolitical interrelationships, and will examine governmental policies related to these issues. Students will apply the concepts of geographic thinking and the geographic inquiry process, including spatial technologies, to investigate these complex issues, including their impact on natural and human communities around the world. If you enjoy debating the issues of today, exploring the current news, collaborating on various projects to solving issues of equity and social justice, then this course is for you! Field trips, student conferences, guest speakers, and simulation activities will assist you in becoming an active learner and critical thinker – helping to prepare you for the demands of university.

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

CGW4C0, World Issues: A Geographic Analysis, Grade 12, College Preparation

This course explores the global challenge of meeting the basic needs of all people while sustaining the natural environment. Students will examine global inequities, including those related to food, water, energy, and development, and will explore global issues through environmental, social, economic, and political lenses. Students will apply the concepts of geographic thinking and the geographic inquiry process, including spatial technologies, to investigate a range of current geographic issues facing Canada and the world. If you enjoy debating the issues of today, exploring the current news, and collaborating on various projects to solve these issues, then this is the course for you! Opportunities for volunteering in the local community to finish your 40 hours for graduation will also be offered.

Prerequisite: CGC1D0 or CGC1P0

CGR4M0, The Environment and Resource Management, Grade 12, University/College Preparation (offered every other year) This course explores interactions between the natural and human environment, with a particular focus on the impact of human activity on various ecosystems. Students will explore resource management and sustainability practices, as well as related government policy and international protocols. Applying the concepts of geographic thinking and the geographic inquiry process, including spatial technologies, students will investigate the relationship between people and the natural environment and will propose approaches for developing more sustainable relationships, including environmentally responsible actions that support stewardship. Students will thrive in this “hands-on” approach to learning. From field trips to class investigations, this is not a typical classroom experience as many opportunities in the community will be on offer.

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

CGR4E0, Living in a Sustainable World, Grade 12, Workplace Preparation (offered every other year)

This course examines the impact of human activity on the natural environment. Students will explore the use of natural spaces and resources, and how planning decisions and consumer choices affect natural systems. Students will apply the concepts of geographic thinking and geographic inquiry process, including spatial technologies, to investigate practical solutions to environmental issues, enabling them to make more sustainable decisions at home and in the workplace. Students will thrive in this “hands-on” approach to learning. From field trips to class investigations, this is not a typical classroom experience as many opportunities in the community will be on offer.

Prerequisite: CGC1D0 or CGC1P0

Canadian & World Studies - History

CHC2D0, Canadian History since World War I, Grade 10, Academic

This course explores social, economic, and political developments and events and their impact on the lives of different groups in Canada since 1914. Students will examine the role of conflict and cooperation in Canadian society, Canada’s evolving role within the global community, and the impact of various individuals, organizations, and events on Canadian identity, citizenship, and heritage. They will develop their ability to apply the concepts of historical thinking and the historical inquiry process, including the interpretation and analysis of evidence, when investigating key issues and events in Canadian history since 1914.

Prerequisite: None

CHC2P0, Canadian History since World War I, Grade 10, Applied

This course focuses on the social context of historical developments and events and how they have affected the lives of people in Canada since 1914. Students will explore interactions between various communities in Canada as well as contributions of individuals and groups to Canadian heritage and identity. Students will develop their ability to apply the concepts of historical thinking and the historical inquiry process, including the interpretation and analysis of evidence, when investigating the continuing relevance of historical developments and how they have helped shape communities in present-day Canada.

Prerequisite: None

CHW3M0, World History to the End of the Fifteenth Century, Grade 11, University/College Preparation (Offered 2018-2019; Not Offered 2019-2020)

This course explores the history of various societies and civilizations around the world, from earliest times to around 1500 CE. Students will investigate a range of factors that contributed to the rise, success, and decline of various ancient and pre-modern societies throughout the world and will examine life in and the cultural and political legacy of these societies. Students will extend their ability to apply the concepts of historical thinking and the historical inquiry process, including the interpretation and analysis of evidence, when investigating social, political, and economic structures and historical forces at work in various societies and in different historical eras.

Prerequisite: CHC2D0 or CHC2P0

CHY4C0, World History since the Fifteenth Century, Grade 12, College Preparation (offered every other year)

This course explores key developments and events in world history since approximately 1450, with a focus on interactions within and between various regions. Students will examine social, economic, and political developments and how they have affected different peoples. Students will extend their ability to apply the concepts of historical thinking and the historical inquiry process, including the interpretation and analysis of evidence, when investigating key turning points in world history and historical forces that have shaped our world.

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

CHY4U0, World History since the Fifteenth Century, Grade 12, University Preparation (offered every other year)

This course traces major developments and events in world history since approximately 1450. Students will explore social, economic, and political changes, the historical roots of contemporary issues, and the role of conflict and cooperation in global interrelationships. They will extend their ability to apply the concepts of historical thinking and the historical inquiry process, including the interpretation and analysis of evidence, as they investigate key issues and assess societal progress or decline in world history. The goal of this course is to prepare students for the rigors of first year university humanities courses through a strong emphasis on critical thinking/analysis, post-secondary research methods, and effective essay writing. **Prerequisite:** Any university or university/college preparation course in Canadian and world studies, English, or social sciences and humanities.

Canadian & World Studies -- Law & Politics**CHV200, Civics and Citizenship, Grade 10, Open**

This course explores rights and responsibilities associated with being an active citizen in a democratic society. Students will explore issues of civic importance such as healthy schools, community planning, environmental responsibility, and the influence of social media, while developing their understanding of the role of civic engagement and of political processes in the local, national, and/or global community. Students will apply the concepts of political thinking and the political inquiry process to investigate, and express informed opinions about, a range of political issues and developments that are both of significance in today's world and of personal interest to them. **Prerequisite:** None

CHV20S, Civics and Citizenship, Grade 10, ESL

This course is intended for English language learners. This course explores rights and responsibilities associated with being an active citizen in a democratic society. Students will explore issues of civic importance such as healthy schools, community planning, environmental responsibility, and the influence of social media, while developing their understanding of the role of civic engagement and of political processes in the local, national, and/or global community. Students will apply the concepts of political thinking and the political inquiry process to investigate, and express informed opinions about, a range of political issues and developments that are both of significance in today's world and of personal interest to them. **Prerequisite:** None

CLU3M0, 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: CHC2D0 or CHC2P0

CLN4U0, Canadian and International Law, Grade 12, University Preparation (offered every other year)

This course explores a range of contemporary legal issues and how they are addressed in both Canadian and international law. Students will develop their understanding of the principles of Canadian and international law when exploring rights and freedoms within the context of topics such as religion, security, cyberspace, immigration, crimes against humanity, and environmental protection. Students will apply the concepts of legal thinking and the legal inquiry process when investigating these issues in both Canadian and international contexts, and they will develop legal reasoning skills and an understanding of conflict resolution in the area of international law. **Prerequisite:** Any university or university/college preparation course in Canadian and world studies, English, or social sciences and humanities

Social Sciences & Humanities – Family Studies – Fashion**HNC3C0, Understanding Fashion, Grade 11, College Preparation**

This course introduces students to the world of fashion. Students will gain an understanding of theories related to fashion trends and of how culture, media, fashion cycles, retailing, and social and environmental factors influence fashion trends and consumer behaviour. Students will use various tools, technologies, and techniques safely and correctly to create fashion items. They will apply knowledge of fibres, fabrics, and the elements and principles of design when creating and assessing fashion-related products. Students will develop research skills as they investigate topics related to fashion. This course provides students with an introduction to basic hand and machine sewing while discovering some of the issues surrounding the fashion industry. Students may also have a chance to explore knitting, experiment with dyeing techniques, and also enjoy meeting local artists from the community.

Prerequisite: None

HNB4M0, The World of Fashion, Grade 12, University/College Preparation

This course gives students the opportunity to explore the world of fashion. Students will learn how to create a fashion product using various tools, techniques and technologies while developing their practical skills. Students will learn about various factors that affect the global fashion industry, the needs of specialized markets, and the impact of fibre and fabric production and care. In addition, they will learn about social and historical influences on fashion. Students will apply research skills when investigating aspects of the fashion world. This course provides students with an introduction to basic hand and machine sewing while discovering some of the issues surrounding the fashion industry. Students may also have a chance to explore knitting, experiment with dyeing techniques, and also enjoy meeting local artists from the community.

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



Thinking about a career in the world of fashion? Pair these courses with cooperative education to build your experience in the field!

Social Sciences & Humanities – Family Studies – Raising & Caring for Children

HPW3C0, Working with Infants and Young Children, Grade 11, College Preparation

This course prepares students for occupations involving children from birth to six years of age. Students will study theories about child behaviour and development, and will have opportunities for research and observation and for practical experiences with young children. Students will become familiar with occupational opportunities and requirements related to working with infants and young children. They will also have opportunities to develop research and critical-thinking skills as they investigate and evaluate current research about early childhood education. **Prerequisite:** None.

HPD4C0, Working with School-Age Children and Adolescents, Grade 12, College Preparation

This course prepares students for occupations involving school-age children and adolescents. Students will study a variety of theories about child behaviour and development, and will have opportunities for research and observation and for practical experiences with older children. Students will become familiar with occupational opportunities and requirements related to working with older children and adolescents. They will develop research skills used in investigating child and adolescent behaviour and development. **Prerequisite:** Any university, college, or university/college preparation course in social sciences and humanities, English, or Canadian and world studies.



Thinking about a career in the world of childcare, early childhood education, youth counselling, or child and youth work? Pair these courses with cooperative education to build your experience in the field!

General Social Sciences

HSP3U0 Introduction to Anthropology, Psychology, and Sociology, Grade 11, University Preparation

This course provides students with opportunities to think critically about theories, questions, and issues related to anthropology, psychology, and sociology. Students will develop an understanding of the approaches and research methods used by social scientists. They will be given opportunities to explore theories from a variety of perspectives, to conduct social science, and to become familiar with current thinking on a range of issues within the three disciplines. You will have the opportunity to conduct your own psychological experiment. **Prerequisite:** CHC2D0 or ENG2D0

HSP3C0 Introduction to Anthropology, Psychology, and Sociology, Grade 11, College Preparation

This course introduces students to theories, questions, and issues related to anthropology, psychology, and sociology. Students learn about approaches and research methods used by social scientists. They will be given opportunities to apply theories from a variety of perspectives, to conduct social science research, and to become familiar with current issues within the three disciplines. You will have the opportunity to conduct your own psychological experiment. **Prerequisite:** None.

HSB4U0, Challenge and Change in Society, Grade 12, University Preparation

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, and engage in discussions about the most important social issues facing Canada and the global community today. **Prerequisite:** Any university or university/college preparation course in social sciences and humanities, English, or Canadian and world studies.

Indigenous Studies

NAC100, 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 explore First Nations, Métis, and Inuit perspectives and cultures. Students will examine the interconnected relationships between art forms and individual and cultural identities, histories, values, protocols, and ways of knowing and being. They will demonstrate innovation as they learn and apply art-related concepts, methods, and conventions, and acquire skills that are transferable beyond the classroom. Students will use the creative process and responsible practices to explore solutions to creative arts challenges.

Prerequisite: None

NAC200, Aboriginal Peoples in Canada, Grade 10, Open (offered every other year)

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

NDA3M0, Current Aboriginal Issues in Canada, Grade 11, University/College Preparation (offered every other year)

This course focuses on existing and emerging issues of importance to Aboriginal peoples in Canada. Students will investigate issues related to identity, relationships among Aboriginal peoples and between Aboriginal peoples and other Canadians, sovereignty principles as presented by Aboriginal peoples, and the contemporary challenges posed by these issues. Students will also examine such topics as language preservation, the responsibilities of Aboriginal women and men, and the need for dialogue between Aboriginal and non-Aboriginal peoples.

Prerequisite: NAC200, CHC2D0 or CHC2P0

NDW4M0, Issues of Indigenous Peoples in a Global Context, Grade 12, University/College Preparation (offered every other year)

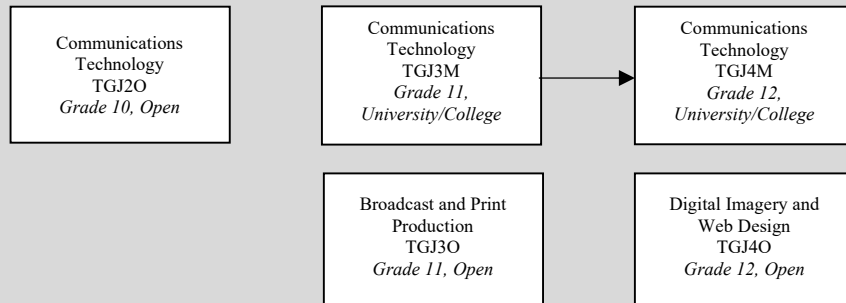
This course provides students with an overview of the issues and challenges that confront indigenous peoples worldwide. Students will develop an understanding of the concerns and aspirations of the world's indigenous population, plan and conduct research on global issues that have an impact on indigenous peoples and use information technology to consult materials related to the views of indigenous peoples throughout the world.

Prerequisite: Any Grade 11 university, university/college, or college preparation course in Indigenous Studies

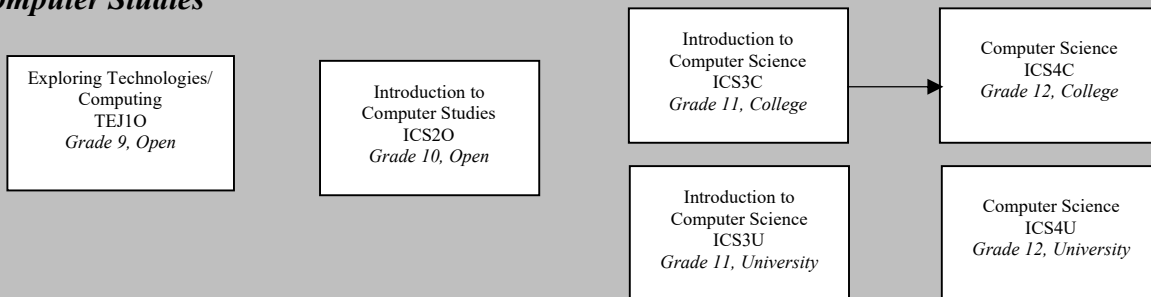
Prerequisite Charts for Technological Education, Grades 9 - 12

These charts show the links between courses and the possible prerequisites for them. They do not attempt to depict all possible movements from course to course.

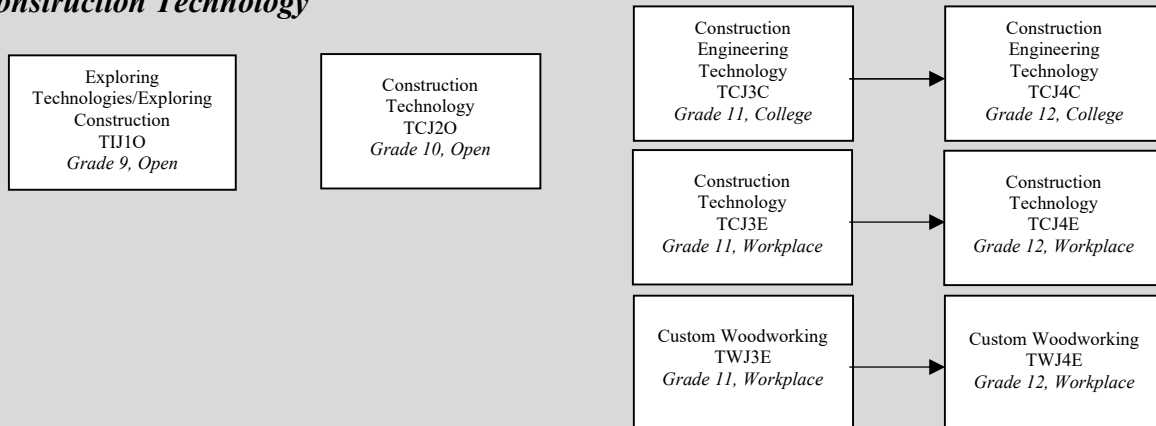
Communications Technology



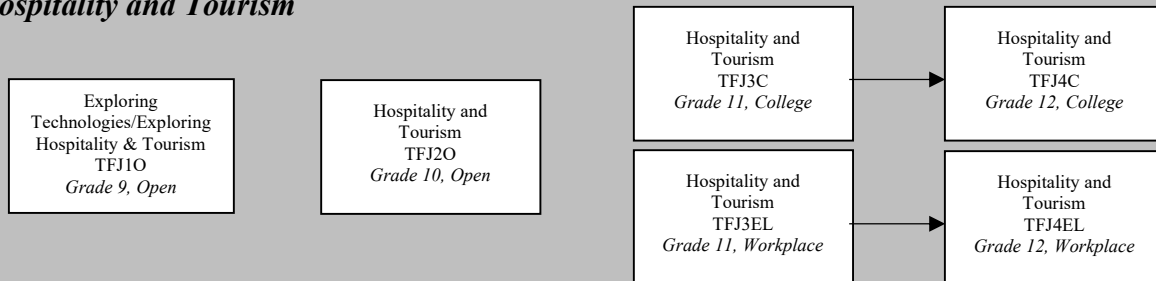
Computer Studies



Construction Technology



Hospitality and Tourism



Prerequisite Charts for Technological Education, Grades 9 - 12

These charts show the links between courses and the possible prerequisites for them. They do not attempt to depict all possible movements from course to course.

Manufacturing Technology

Robotics and Control
Systems
TMR3M
Grade 11,
University/College

Robotics and Control
Systems
TMR4M
Grade 12,
University/College

Technological Design

Technological Design
TDJ2O
Grade 10, Open

Technological Design
TDJ3M
Grade 11,
University/College

Technological Design
TDJ4M
Grade 12,
University/College

Mechanical &
Industrial Design
TDM3M
Grade 11,
University/College

Mechanical &
Industrial Design
TDI4M
Grade 12,
University/College

Technological Education Communications Technology

BTT100, Information and Communication Technology in Business, Grade 9 Open

This course introduces students to information and communication technology in a business environment and builds a foundation of digital literacy skills necessary for success in a technologically driven society. Students will develop word processing, spreadsheet, database, desktop publishing, presentation software, and website design skills. Throughout the course, there is an emphasis on digital literacy, effective electronic research and communication skills, and current issues related to the impact of information and communication technology.

Prerequisite: None

TGJ200, 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

TGJ3M0, 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

TGJ300, Communications Technology: Broadcast and Print Production, Grade 11, Open

This course enables students to develop knowledge and skills in the areas of graphic communication, printing and publishing, audio and video production, and broadcast journalism. Students will work both independently and as part of a production team to design and produce media products in a project-driven environment. Practical projects may include the making of signs, yearbooks, video and/or audio productions, newscasts, and documentaries. Students will also develop an awareness of related environmental and societal issues and explore secondary and postsecondary education and training pathways and career opportunities in the various communications technology fields.

Prerequisite: None

TGJ4M0, 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: TGJ3M0

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

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

Prerequisite: None

Computer Studies

TEJ1O, Exploring Technologies

This course enables students to further explore and develop technological knowledge and skills introduced in the elementary science and technology program. Students will be introduced 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 post-secondary pathways leading to careers in the field. This course is a great step for students interested in taking AP Computer Programming at BSS in the future. **Prerequisite:**

None

ICS2O0, Introduction to Computer Studies, Grade 10, Open

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

Prerequisite: None

ICS3C0, Introduction to Computer Science, 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

ICS3U0, 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

ICS4C0, Computer Science, 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: ICS3C0

ICS4U0, 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 analyse algorithms for effectiveness. They will investigate ethical issues in computing and further explore environmental issues, emerging technologies, areas of research in computer science, and careers in the field.

Prerequisite: ICS3U0

Construction Technology

TIJ100, Exploring Technologies, Grade 9, Open

This course enables students to further explore and develop technological knowledge and skills introduced in the elementary science and technology program. Students will be given the opportunity to design and create products and/or provide services related to the construction, manufacturing, and technological design, working with a variety of tools, equipment, and software commonly used in industry. Students will develop skills in sketching, rendering, fabrication, building, 3D printing, and more! Students will also develop an awareness of environmental and societal issues and will begin to explore secondary and postsecondary education and training pathways leading to careers in technology-related fields.

Prerequisite: None

TJ200, 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

TCJ3C0, Construction Engineering Technology, Grade 11, College Preparation

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

Prerequisite: None

TCJ3E0, 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, lay out, 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

TWJ3E0, 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 materials, tools, equipment, and joinery techniques associated with custom wood working. 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, to explore partnerships, postsecondary training, and career opportunities in the field that may be pursued directly after graduation.

Prerequisite: None

TCJ4C0, Construction Engineering Technology, Grade 12, Preparation

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

Prerequisite: TCJ3C0

TCJ4E0, 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: TCJ3E0

TWJ4E0, Custom Woodworking, Grade 12, 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 materials, tools, equipment, and joinery techniques associated with custom wood working. 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, to explore partnerships, postsecondary training, and career opportunities in the field that may be pursued directly after graduation.

Prerequisite: TWJ3E0

Hospitality and Tourism**TFJ1O0, Exploring Technologies, Culinary Arts, Grade 9, 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

TFJ2O0, Hospitality and Tourism, 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

TFJ3E0, Hospitality and Tourism, Grade 11, Workplace Preparation

This course enables students to acquire knowledge and skills related to the food and beverage services sector of the tourism industry. Students will learn how to prepare, present, and serve food using a variety of tools and equipment and will develop an understanding of the fundamentals of providing high quality service to ensure customer satisfaction and the components of running a successful event or activity. Students will develop an awareness of health and safety practices, environmental and societal issues, and career opportunities in the food and beverage services sector.

Prerequisite: None

TFJ3C0, 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

TFJ4E0, Hospitality and Tourism, Grade 12, Workplace Preparation

This course enables students to further develop knowledge and skills related to the food and beverage services sector of the tourism industry. Students will demonstrate proficiency in using food preparation and presentation tools and equipment; plan nutritious menus, create recipes, and prepare and present finished food products; develop customer service skills; and explore event and activity planning. Students will expand their awareness of health and safety practices, environmental and societal issues, and career opportunities in the food and beverage services sector.

Prerequisite: None

TFJ4C0, 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: None



Considering a career in the field of hospitality and tourism? Want to be a chef, baker, restaurateur? Pair any courses starting with TFJ with cooperative education to gain experience in the field!

Baking and Business Focus Program

This one semester SHSM program combines three dynamic, skills based subjects: Baking, Entrepreneurship and Co-operative Education. Through hands-on experience students will have opportunities to develop the values and skills most often associated with successful entrepreneurs. Students will have opportunities to engage with local entrepreneurs in the community and become involved in designing their own business venture related to the baking and hospitality field. Students will develop specialized knowledge and skills through cake design competitions, a cupcake marketing campaign, providing a weekly in school bread special, field trips as well as time spent in a professional baking environment. Students will develop essential skills and work habits by participating in a one or two credit cooperative education experience in local bakeries, hotels, and restaurants. Students will benefit from learning technical baking skills as well as receiving sector specific certifications that will increase their employability and give students a competitive edge in their career pathway decisions.

Credits: TFR3C/4C (Baking), BDI3C (Entrepreneurship: The Venture)/BDV4C (Business), TFR3CC/4CC (Co-op)

Manufacturing Technology**TMR3M0, Manufacturing Engineering Technology: Robotics & Control Systems, Grade 11, University/College Preparation**

This course enables students to develop knowledge and skills related to design, process planning, control systems, and quality assurance. Students will use a broad range of tools and equipment and will combine modern manufacturing techniques and process with computer-aided manufacturing as they develop critical decision-making, problem-solving, and project-management skills. Students will develop an awareness of environmental and societal issues related to manufacturing and will learn about pathways leading to careers in the industry. Students will work in teams to design and build robot projects for competitions and creative arts applications, and will utilize a variety of design machines such as the Arduino, Raspberry, Pi and VEX Microcontrollers.

Prerequisite: None

TMR4M0, Manufacturing Engineering Technology: Robotics & Control Systems, Grade 12, University/College Preparation

This course enables students to further develop knowledge and skills related to design, process planning, control systems, project management, quality assurance, and business operations. Students will use a broad range of tools and equipment, enhance their skills in computer-aided design, and collaborate in managing a project. Students will critically analyse and solve complex problems involved in manufacturing products. Students will expand their awareness of environmental and societal issues, and of career opportunities in the manufacturing industry while continuing to use design machines such as the Arduino, Raspberry, Pi and VEX Microcontrollers.

Prerequisite: TMR3M0

Technological Design

TDJ2O0, Technological Design, Grade 10, Open

This course provides students with opportunities to apply a design process to meet a variety of technological challenges. Students will research projects, create designs, build models and/or prototypes, and assess products and/or processes using appropriate tools, techniques, and strategies. Student projects may include designs for homes, vehicles, bridges, robotic arms, clothing, or other products. Students will develop an awareness of environmental and societal issues related to technological design, and learn about secondary and postsecondary education and training leading to careers in the field.

Prerequisite: None

TDJ3M0, Technological Design, Grade 11, University/College Preparation

This course examines how technological design is influenced by human, environmental, financial, and material requirements and resources. Students will research, design, build, and assess solutions that meet specific human needs, using working drawings and other communication methods to present their design ideas. They will develop an awareness of environmental, societal, and cultural issues related to technological design, and will explore career opportunities in the field, as well as the college and/or university program requirements for them.

Prerequisite: None

TDJ4M0, Technological Design, Grade 12, University/College Preparation

This course introduces students to the fundamentals of design advocacy and marketing, while building on their design skills and their knowledge of professional design practices. Students will apply a systematic design process to research, design, build, and assess solutions that meet specific human needs, using illustrations, presentation drawings, and other communication methods to present their designs. Students will enhance their problem solving and communication skills, and explore career opportunities and the postsecondary education and training requirements for them.

Prerequisite: TDJ3M0

TDM 3M, Mechanical & Industrial Design, Grade 11, University/College

In this course students develop traditional design skills such as sketching, rendering and technical illustration. Students are introduced to airbrushing, learn how to create three-dimensional prototypes using foam, and become familiar with computer modeling software. This course also examines how technological design is influenced by human, environmental, financial, and material requirements and resources. Students will research, design, build, and assess solutions that meet specific human needs, using working drawings and other communication methods to present their design ideas. They will develop an awareness of environmental, societal, and cultural issues related to technological design, and will explore career opportunities in the field, as well as the college and/or university program requirements for them.

Prerequisite: None

TDM 4M, Mechanical & Industrial Design, Grade 12, University/College

In this course students learn how to generate innovative ideas, work them into preliminary sketches and designs, and bring them to life through the creation of foam prototypes. Sketching and rendering skills are stressed throughout this course, along with a solid foundation in three-dimensional computer generated modeling and airbrushing. This course also introduces students to the fundamentals of design advocacy and marketing, while building on their design skills and their knowledge of professional design practices. Students will apply a systematic design process to research, design, build, and assess solutions that meet specific human needs, using illustrations, presentation drawings, and other communication methods to present their designs. Students will enhance their problem-solving and communication skills, and will explore career opportunities and the post secondary education and training requirements for them. **Prerequisite:** TDM 3M