

# Carleton Place High School

Course Calendar  
2018—2019



**All of the courses offered by Carleton Place High School have been developed according to the requirements of the Ontario Ministry of Education and Training. Detailed courses of study are available at the main office of the school and parents who wish to examine them may present their request to the principal. More options for course delivery are available.**

**Please contact the Guidance Department at CPHS for details.**

**Course Descriptions copied from “The Ontario Curriculum” can be viewed online at the Ministry of Education web site.**

**[www.edu.gov.on.ca](http://www.edu.gov.on.ca)**

Please contact the Guidance Department at CPHS with any questions.

<http://cphsbears.ca/contact/> or (613) 257-2720

**CPHS WILL BE USING THE  
MYBLUEPRINT EDUCATION PLANNER  
WEBSITE TO COMPLETE ONLINE  
COURSE SELECTION THIS YEAR.**

[www.myBlueprint.ca/ucdsb](http://www.myBlueprint.ca/ucdsb)

**With direct web access from home, parents can be better informed and more involved in their child's education.**

**Log in with your child and learn about courses, graduation requirements and career options available to your child based on individual interests, strengths and academic goals.**

**With the myBlueprint online tool students can:**

- build customized high school course plans,
- instantly identify the post-secondary options that are available to them,
- explore valuable information about apprenticeships,
- college programs,
- university programs,
- workplace opportunities across Canada.

**Students will need:**

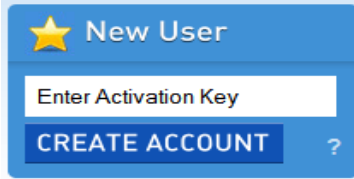
- OEN number (Student number),
- Date of Birth (DOB).

# Instructions for using myBlueprint:

## Step 1 : Log in

### NEW USERS :

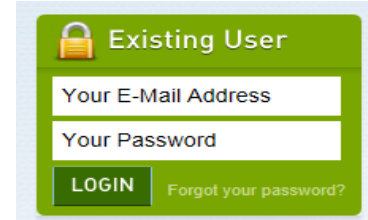
- In the New Users box on the left of the page,



- "Select your School" → "carletonplace",  
(This statement replaces the "Enter Activation Key" on the diagram here.)
- Click "Create Account".

### EXISTING USERS :

- Enter your email and password in the Existing User box,
- Click "Login".



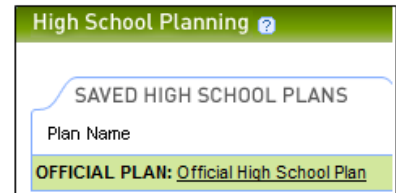
(Use this if you completed your course selections using myblueprint last year.)

Modules available once you are logged in:

What's included in an Education Planner Profile?				
<p><b>Goal Setting</b> Set interactive SMART goals and a plan of action to stay on track</p>	<p><b>High School Planner</b> Plan to graduate and discover the impact of course selections</p>	<p><b>Post Secondary Planner</b> Instantly identify the opportunities available to you in every pathway</p>	<p><b>Occupation Planner</b> Compare extensive information on careers across Canada</p>	<p><b>Experiences &amp; Résumé</b> Keep record of important experiences and build an interactive résumé</p>

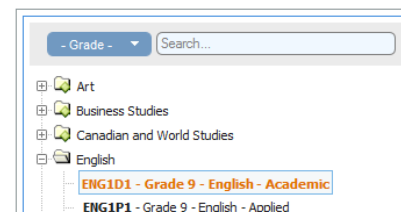
## Step 2 : Open

- Scroll down to the green **High School Planning** section in My Profile,
- Click on "**Official High School Plan**".



## Step 3 : Courses

- Click "Add [Course]",
- Explore the courses available to you,
- Click "Add Course to Plan" when you find the course you want.



## Step 4 : Course Selection

- All Students **must choose 8 courses** and **AT LEAST 2 alternate** courses.

test					Create New Plan
Grade 9	Grade 10	Grade 11	Grade 12	Additional	
Add English	Add English	Add English	Add English	Add Course	
Add Mathematics	Add Mathematics	Add Mathematics	Add Course	Add Course	
Add Science	Add Science	Add Course	Add Course	Add Course	
Add French As a Second L...	Add History	Add Course	Add Course	Add Course	

## Step 5 : CO-OP

- Students Selecting **COOP** must add 2 additional alternate courses (total 4).

## Step 6 : Repeat?

- If you were unsuccessful in a compulsory course you must put that course on your option sheet.

## Step 7 : Submit

- Press "Submit" at the bottom of the High School Planner page after you have completed your course selections.

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Print the Submission letter, have your parent / guardian sign it and return it to the Guidance Office.

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### NEED HELP?

Student Resources - on the right hand side of the of the home page.  
(Includes a CPHS course selection guide, worksheets and further information.)

How to interpret this document:

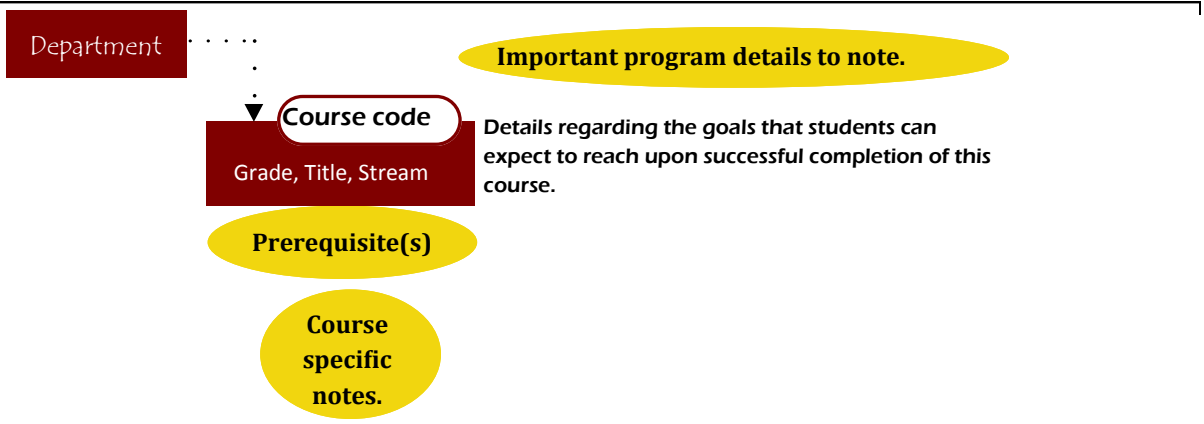


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# Drama

## ADA101

Grade 9, Drama, Open

None

This course provides opportunities for students to explore dramatic forms and techniques, using material from a wide range of sources and cultures. Students will use the elements of drama to examine situations and issues that are relevant to their lives.

Students will create, perform, discuss, and analyse drama, and then reflect on the experiences to develop an understanding of themselves, the art form, and the world around them.

## ADA201

Grade 10, Drama, Open

None

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.

## ADA301

Grade 11 Drama, Open

None

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 drama works. Students will develop a variety of skills related to collaboration and the presentation of drama works.

## ADA3M1

Grade 11, Drama, College or University

ADA101

ADA201

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.

# Drama

## ADA4M1

Grade 12, Drama, College or  
University

ADA3M1

This course requires students to experiment individually and collaboratively with forms and conventions of both drama and theatre from various cultures and time periods. Students will interpret dramatic literature and other texts and media sources while learning about various theories of directing and acting. Students will examine the significance of dramatic arts in various cultures, and will analyse how the knowledge and skills developed in drama are related to their personal skills, social awareness and goals beyond secondary school.

# Music

## AMU101

Grade 9, Music, Open  
(Instrumental)

None

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.

## AMU201

Grade 10, Music, Open  
(Instrumental)

None

Recommend  
AMU101

This course emphasizes the creation and performance of music at a level consistent with previous experience. Student learning will include participating in creative activities and listening perceptively. 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 self, communities, and cultures.

## AMU301

Grade 11, Music, Open  
(Instrumental)

None

Recommend  
AMU201

This course develops students' musical literacy through performance and the preparation and presentation of music productions. Students will perform works at a level consistent with previous experience. Independently and collaboratively, students will use current technology and the creative and critical analysis processes to plan, produce, present, and market musical productions. Students will respond to, reflect on, and analyse music from various genres and periods, and they will develop skills transferable to other aspects of their life and their careers.

## AMU3M1

Grade 11, Music, College or  
University (Instrumental)

AMU101

AMU201

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 analyzing 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.

## AMU4M1

Grade 12, Music, College &  
University (Instrumental)

AMU3M1

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.



# Music

## AMC201

Grade 10, Music Industry/  
Production, Open

None

This package of courses combines the excitement of the music industry with the power of the business world. Students will work on a range of collaborative authentic projects that look at the production and performance of music through the eyes of the entrepreneur. The nature of the projects will be determined collaboratively by the students and teachers, as they explore their strengths, skills, interests, and opportunities.

## AMC3M1

Grade 11, Music Industry/  
Production, College or  
University

AMC201

This package of courses combines the excitement of the music industry with the power of the business world. Students will work on a range of collaborative authentic projects that look at the production and performance of music through the eyes of the entrepreneur. The nature of the projects will be determined collaboratively by the students and teachers, as they explore their strengths, skills, interests, and opportunities.

## AMC301

Grade 11, Music Industry/  
Production, Open

None

Recommend  
AMC201

This package of courses combines the excitement of the music industry with the power of the business world. Students will work on a range of collaborative authentic projects that look at the production and performance of music through the eyes of the entrepreneur. The nature of the projects will be determined collaboratively by the students and teachers, as they explore their strengths, skills, interests, and opportunities.

## AMC4M1

Grade 12, Music Industry/  
Production, College or  
University

AMC3M1

This package of courses combines the excitement of the music industry with the power of the business world. Students will work on a range of collaborative authentic projects that look at the production and performance of music through the eyes of the entrepreneur. The nature of the projects will be determined collaboratively by the students and teachers, as they explore their strengths, skills, interests, and opportunities.

# Music

## AMR201

Grade 10, Repertoire, Open

AMU101

This full year course is offered to students who have completed a minimum of a Grade 9 instrumental music credit and is offered after school from September to June. It can be (but it is not required to be) taken in conjunction with Grades 10, 11 and 12 instrumental music courses. The course will focus on band repertoire, concepts, and techniques. Students will be required to attend all band practices and performances, complete monthly practice journals, and meet with the music teacher at the end of each semester to assess their progress.

Note: AMR101 (Grade 9 Repertoire) is available for Grade 9 students with prior instrumental music experience.

## AMR3M1

Grade 11, Repertoire, University & College

AMR201

This full year course is offered to students who have completed a minimum of a Grade 9 instrumental music credit and is offered after school from September to June. It can be (but it is not required to be) taken in conjunction with Grades 10, 11 and 12 instrumental music courses. The course will focus on band repertoire, concepts, and techniques. Students will be required to attend all band practices and performances, complete monthly practice journals, and meet with the music teacher at the end of each semester to assess their progress.

## AMR301

Grade 11, Repertoire, Open

None

Recommend  
AMR201

This full year course is offered to students who have completed a minimum of a Grade 9 instrumental music credit and is offered after school from September to June. It can be (but it is not required to be) taken in conjunction with Grades 10, 11 and 12 instrumental music courses. The course will focus on band repertoire, concepts, and techniques. Students will be required to attend all band practices and performances, complete monthly practice journals, and meet with the music teacher at the end of each semester to assess their progress.

## AMR4M1

Grade 12, Repertoire, University & College

AMR301

AMR3M1

This full year course is offered to students who have completed a minimum of a Grade 9 instrumental music credit and is offered after school from September to June. It can be (but it is not required to be) taken in conjunction with Grades 10, 11 and 12 instrumental music courses. The course will focus on band repertoire, concepts, and techniques. Students will be required to attend all band practices and performances, complete monthly practice journals, and meet with the music teacher at the end of each semester to assess their progress.

# Music

## AMV201

Grade 10, Vocal Music, Open

None

Vocal Music is open to any student in Grade 10-12 interested in singing. Sight-singing, ear-training and vocal training are all activities included in this class. Students range from beginner up to fully-trained vocal students who wish to take vocal music for credit.

## AMV3M1

Grade 11, Vocal Music,  
University & College

AMV201

Vocal Music is open to any student in Grade 10-12 interested in singing. Sight-singing, ear-training and vocal training are all activities included in this class. Students range from beginner up to fully-trained vocal students who wish to take vocal music for credit.

## AMV301

Grade 11, Vocal Music, Open

None

Recommend  
AMV201

Vocal Music is open to any student in Grade 10-12 interested in singing. Sight-singing, ear-training and vocal training are all activities included in this class. Students range from beginner up to fully-trained vocal students who wish to take vocal music for credit.

## AMV4M1

Grade 12, Vocal Music,  
University & College

AMV3M1

Vocal Music is open to any student in Grade 10-12 interested in singing. Sight-singing, ear-training and vocal training are all activities included in this class. Students range from beginner up to fully-trained vocal students who wish to take vocal music for credit.

# Visual Arts

## AVI101

Grade 9, Visual Arts, Open

None

NAC101 may be offered as a substitute for AVI101.

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

## NAC101

Grade 9, Visual Arts—Aboriginal Perspective, Open

NONE

This course examines Aboriginal cultures in Canada through an exploration of art forms – painting, sculpture, storytelling, dance, and music – created by Aboriginal artists. Students will learn to identify Aboriginal art forms and describe relationships between the art forms and Aboriginal traditions, philosophy, and culture. Students will also create their own art forms to express their understanding of Aboriginal identity, relationships, and sovereignty.

## AVI201

Grade 10, Visual Arts, Open

None

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.

## AVI301

Grade 11, Visual Arts, Open

None

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.

# Visual Arts

## AVI3M1

Grade 11, Visual Arts, College or University

AVI101

AVI201

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 print-making, 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.

## AVI4M1

Grade 12, Visual Arts, College or University

AVI3M1

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.

# Information Technology

## BTT101

Grade 9, Intro to Information Technology in Business, Open

None

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.

## BTA301

Grade 11, Information & Communication Technology: The Digital Environment, Open

None

This course prepares students for the digital environment. Using a hands-on approach, students will further develop information and communication technology skills through the use of common business software applications. The concept and operation of e-business will be explored, and students will design and create an e-business website. The skills developed in this course will prepare students for success in the workplace and/or post-secondary studies.

## BTX4C1

Grade 12, Information & Communication Technology: Multimedia Solutions, College or University

BTA301

This course provides students with the opportunity to apply their information and communication technology skills while working in a team environment. Through a project-based approach, students will have opportunities to integrate common business software applications and apply multimedia techniques. Students will further develop their understanding of electronic business and e-commerce environments. The skills acquired in this course will prepare students for success in post-secondary studies and in their future careers.

## Business Studies

### BMI3C1

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

None

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.

**Available  
2019-2020**

### BBB4M

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

None

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.

### BOH4M1

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

None

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

**Available  
2019-2020**

# Geography

## CGC1D1

Grade 9, Geography of Canada,  
Academic

None

This course draws on a variety of frameworks, such as the ecozone framework and principles of physical, human and economic geography, to explore Canada's distinct and evolving character. Students will investigate the interconnections among forms, climate, soils, plants, animals and human activities in Canadian ecozones to develop geographic knowledge and skills that contribute to an understanding of Canada's diversity and its role in the world.

## CGC1DF

Grade 9, Geography of Canada,  
Academic, French

None

This course is **taught in French** and draws on a variety of frameworks, such as the ecozone framework and principles of physical, human and economic geography, to explore Canada's distinct and evolving character. Students will investigate the interconnections among the landforms, climates, soils, plants, animals, and human activities in Canadian ecozones to develop geographic knowledge and skills that contribute to an understanding of Canada's diversity and its role in the world.

## CGC1P1

Grade 9, Geography of Canada,  
Applied

None

This course draws upon students' everyday experiences and uses a variety of frameworks, including ecozone framework, to help students learn about the geography of Canada and the country's place in the global community. Students will investigate the interconnections among the country's landforms, climates, soils, plants, animals, and human activities in order to understand Canada's character and diversity.



# Geography

## CGG301

Grade 11, Regional Geography:  
Travel & Tourism, Open

CGC1D1

CGC1P1

This course focuses on travel and tourism to examine the unique characteristics of selected world regions from a geographic perspective. Students will develop an understanding and appreciation of the ways in which the natural environments, economies, cultures, and other aspects of world regions interact.

## CGW4U/4C

Grade 12, Canadian and World  
Issues: A Geographic Analysis,  
University/College

Any university or college  
preparation course in  
Canadian and World Stud-  
ies or English or Social  
Sciences and Humanities.

This course draws on geographic concepts, skills, methods, and technologies to analyse significant issues facing Canadians as citizens of an interdependent world. Students will examine the challenges of creating a sustainable and equitable future through the study of a range of topics, including economic interdependence, geopolitical conflict, regional disparities in the ability to meet basic human needs, and protection of the planet's life-support systems.

**Available  
2019-2020**

# History and Civics

## CHC2D1

Grade 10, Canadian History  
Since World War I, Academic

None

This course explores Canadian participation in global events and traces our development as a country through changes in population, economy, and technology. Students will analyse the elements that constitute Canadian identity, learn the stories of both individuals and communities, and study the evolution of political and social structures. Students will learn about differing interpretations of the past, and will come to understand the importance in historical studies of chronology and cause-and-effect relationships. They will also learn to develop and support a thesis, conduct research and analysis, and effectively communicate the results of their inquiries.

## CHC2DF

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

None

French Immersion students should take this course.

This course is **taught in French** and explores Canadian participation in global events and traces our development as a country through changes in population, economy, and technology. Students will analyse the elements that constitute Canadian identity, learn the stories of both individuals and communities, and study the evolution of political and social structures. Students will learn about differing interpretations of the past, and will come to understand the importance in historical studies of chronology and cause-and-effect relationships. They will also learn to develop and support a thesis, conduct research and analysis, and effectively communicate the results of their inquiries.

## CHC2P1

Grade 10, Canadian History  
Since World War I, Applied

None

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

## CHC2L1

Grade 10, Canadian History  
Since World I, Locally Dev.

None

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.

# History and Civics

## CHY4U/4C

Grade 12, World History,  
University/College

Any university or college preparation course in Canadian and World Studies or English or Social Sciences and Humanities.

This course investigates the major trends in Western civilization and world history from the sixteenth century to the present. Students will learn about the interaction between the emerging and economic systems. The skills and knowledge developed in this course will enable students to understand and appreciate both the character of historical change and the historical roots of contemporary issues.

## CHV20F

Grade 10, Civics, Open, French

None

Half credit course, offered in combination with Careers.

French Immersion students should take this course.

This course **is taught in French** and 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.

## CHV205

Grade 10, Civics, Open

None

Half credit course, offered in combination with Careers.

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.

# Law

## CLU3M1

Grade 11, Understanding  
Canadian Law, University/  
College

CHC2D1

CHC2P1

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.

## CLN4U1

Grade 12, Canadian &  
International Law, University

Any university or college  
preparation course in Canadian  
and World Studies or  
English or Social Sciences  
and Humanities.

This course explores elements of Canadian law and the role of law in social, political, and global contexts. Students will learn about the connections between the historical and philosophical sources of law and issues in contemporary society. They will also learn to analyse legal issues, conduct independent research, and communicate the results of their inquiries in a variety of ways.

# Computer Studies

## ICS201

Grade 10, Introduction to  
Computer Studies, Open

None

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 technology.

## ICS3U1

Grade 11, Introduction to  
Computer Science, University

None

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.

## ICS3C1

Grade 11, Introduction to  
Computer Programming, College

None

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 post-secondary opportunities in computer-related fields.

# Computer Studies

## ICS4U1

Grade 12, Computer Science,  
University

ICS3U1

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.

## ICS4C1

Grade 12, Computer Science,  
College

ICS3C1

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.

# English

## ENG1D1

Grade 9, English, Academic

None

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 ENG2D1 or ENG2P1.

## ENG1L1

Grade 9, English, Essentials

None

The purpose of this course is to assist students with the improvement of their literacy skills. Students will participate in a structured individualized program which will help them to deal with the reading, writing, listening, speaking, and media expectations of their high school courses and the world outside the classroom.

## ENG2D1

Grade 10, English, Academic

ENG1D1

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 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.**

## ENG2P1

Grade 10, English, Applied

ENG1D1

ENG1P1

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.**

# English

## ENG2L1

Grade 10, English, Essentials

ENG1L1

ENG1P1

This course emphasizes key skills in reading, writing, oral communication, and thinking that students need for continuing success in their secondary school subjects, and to communicate with others in their lives outside of school. **This course gives students a solid literacy skills foundation to enter Grade 11 English, Workplace and to prepare them for successful completion of the Grade 10 Literacy Test.** Students read key informational and literary text forms, including novels, editorials, magazine feature articles and poetry, for personal and academic purposes. They use their knowledge of media to create media works. Students will produce clear, complete writing in a variety of narrative and non-narrative forms for real-life purposes (including world of work), using appropriate and correct language. In particular, the course encourages students to develop and reflect upon the strategies that will improve their literacy competence and confidence.

## NBE3U

Grade 11, English, University

ENG2D1

This course emphasizes the development of literacy, critical thinking, and communication skills through the study of works in English by Aboriginal writers. Through the analysis of literary texts and media works, students will develop an appreciation of the wealth and complexity of Aboriginal writing. Students will also conduct research and analyse the information gathered; write persuasive and literary essays; and analyse the relationship between media forms and audiences. An important focus will be the further development of students' understanding of English-language usage and conventions. **The course is intended to prepare students for the compulsory Grade 12 university or college preparation course.**

## NBE3C1

Grade 11, English, College

ENG2D1

ENG2P1

This course emphasizes the development of literacy, critical thinking, and communication skills through the study of works in English by Aboriginal writers. Students will study the content, form, and style of informational texts and literary and media works, and will develop an appreciation of the wealth and complexity of Aboriginal writing. Students will also write reports, correspondence, and persuasive essays, and analyse the relationship between media forms and audiences. An important focus will be on establishing appropriate voice and using business and technical language with precision and clarity. **The course is intended to prepare students for the compulsory Grade 12 college preparation course.**



# English

## NBE3E1

Grade 11, English, Workplace

ENG2L1

ENG2P1

This course emphasizes the development of literacy, critical thinking, and communication skills through the study of works in English by Aboriginal writers. Students will study the content, form, and style of informational texts and literary and media works, and will develop an appreciation of the wealth and complexity of Aboriginal writing. Students will also write explanations, letters, and reports, and will investigate the connections between media forms and audiences. An important focus will be on using language clearly, accurately, and effectively in a variety of contexts. **The course is intended to prepare students for the compulsory Grade 12 workplace preparation course.**

## ENG4U1

Grade 12, English, University

ENG3U1

NBE3U1

This course emphasizes consolidation of literacy, communication, and critical and creative thinking, and 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.**

## ENG4C1

Grade 12, English, College

ENG3C1

ENG3U1

NBE3C1

NBE3U1

This course emphasizes consolidation of literacy, communication, and critical and creative thinking, and 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.**

## ENG4E1

Grade 12, English, Workplace

ENG3E1

ENG3C1

NBE3E1

NBE3C1

This course emphasizes the consolidation of literacy, communication, and critical and creative thinking, and 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 daily life.**

# English

## EMS301

Grade 11, Media Studies, Open

ENG2D1

ENG2P1

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

**Available  
2019-2020**

## EWC4U1

Grade 12, Writer's Craft,  
University

ENG3U1

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

## EWC4C1

Grade 12, Writer's Craft,  
College

ENG3C1

ENG3U1

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.

## OLC401

Grade 12, Ontario Literacy  
Course

Literacy Test

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

# English

## ESLA01

English as a Second Language

None

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.

## ESLBO1

English as a Second Language

ESLA01

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.

## ESLCO1

English as a Second Language

ESLBO1

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.

## ESLDO1

English as a Second Language

ESLCO1

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.

# Core French

## FSF1DF

Grade 9, Core French, Academic

None

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

## FSF1PF

Grade 9, Core French, Applied

None

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

## FSF2DF

Grade 10, Core French, Academic

FSF1DF

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

## FSF3UF

Grade 11, Core French, University

FSF2DF

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

## FSF4UF

Grade 12, Core French, University

FSF3UF

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

# French Immersion

The French Immersion program at Carleton Place High School consists of ten courses taught entirely in French. A student will have completed an elementary school program of half days taught in French from grades one to eight. In order to earn a French Immersion Certificate, the student must successfully complete ten French Immersion courses - **FIF1DF, CGC1DF, PPL1OF, FIF2DF, CHC2DF, GLC2OF/CHV2OF, FIF3UF, HSP3UF and FIF4UF**. Additionally, students may choose between **CGF3MF (online) and/or CO-OP (two credits), GPP3OF (where available) and PPL2OF/ PPL3OF/ PPL4OF**.

## FIF1DF

Grade 9, French Immersion,  
Academic

None

This course enables students to enhance their knowledge of the French language and to further develop their language skills through the study of twentieth-century North American francophone literature and culture. Students will participate in oral communication, reading, and writing activities as they study an authentic novel and selected authentic poems, legends, songs, films, and newspaper articles from French-speaking parts of North America.

## FIF2DF

Grade 10, French Immersion,  
Academic

FIF1DF

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

## FIF3U1

Grade 11, French Immersion,  
University

FIF2DF

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

## FIF4U1

Grade 12, French Immersion,  
University

FIF3UF

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

# Guidance and Careers

## GLC205

Grade 10, Career Studies, Open

None

Half credit course, offered in combination with Civics.

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 goal through the development of a career plan.

## GLC20F

Grade 10, Career Studies, Open, French

Half credit course, offered in combination with Civics.

French Immersion students should take this course.

This course **is taught in French** and 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 goal through the development of a career plan.

## IDC4U/40

Grade 12, High Performance Leadership, University or Open

An application and interview will be required.

This course will challenge students to develop leadership abilities such as interpersonal skills, values clarification, change management, conflict resolution, team development, and both personal and group motivation. The main focus will be to help incoming grade 9 students manage their academic and wellness needs as they adapt to their first semester in high school. Delivered through a project-based learning structure, students will learn how to gather data, assess needs, develop a plan, manage resources, deliver a program, and reflect on their group's success and their own leadership growth. Students in the course will be challenged to work not only with students, but with staff and parents directly. Through the use of technology and social media, the course aims to help grade 9 students build the academic skills (organization, study habits, time management, etc.) and wellness skills (relaxation techniques, self-care, resilience, etc.) that they need to be successful, now and in the future. By facilitating this process, the grade 12 students will gain both experience and insight into what it takes to be a Leader. Interested candidates will be asked to submit a letter of application and may have an interview with the course teacher.



# Health & Physical Education

## PPL10B/G

Grade 9, Healthy Active Living, Open

None

PPL10B—  
Boys  
PPL10G—  
Girls

This course emphasizes regular participation in a variety of enjoyable team sports and physical activities that promote lifelong healthy active living. Students will learn movement skills and principles, ways to improve personal fitness and physical competence, and safety and injury prevention. They will investigate issues related to healthy sexuality and the use and abuse of alcohol, tobacco, and other drugs and will participate in activities designed to develop goal-setting, communication and social skills.

## PPL10F

Grade 9, Co-ed, Healthy Active Living, Open, French

None

This course **is taught in French** and emphasizes regular participation in a variety of enjoyable team sports and physical activities that promote lifelong healthy active living. Students will learn movement skills and principles, ways to improve personal fitness and physical competence, and safety and injury prevention. They will investigate issues related to healthy sexuality and the use and abuse of alcohol, tobacco, and other drugs and will participate in activities designed to develop goal-setting, communication and social skills.

## PPL20B/G

Grade 10, Healthy Active Living, Open

None

PPL20B—  
Boys  
PPL20G—  
Girls

This course emphasizes regular participation in a variety of enjoyable physical team sports and activities that promote lifelong healthy active living. Student learning will include the application of movement principles to refine skills; participation in a variety of activities that enhance personal competence, fitness, and health; examination of issues related to healthy sexuality, healthy eating, substance use and abuse, and the use of informed decision-making, conflict resolution, and social skills in making personal choices.

## PPL20F

Grade 10, Co-ed, Healthy Active Living, Open, French

None

This course **is taught in French** and emphasizes regular participation in a variety of enjoyable team sports and physical activities that promote lifelong healthy active living. Student learning will include the application of movement principles to refine skills; participation in a variety of activities that enhance personal competence, fitness, and health; examination of issues related to healthy sexuality, healthy eating, substance use and abuse, and the use of informed decision-making, conflict resolution, and social skills in making personal choices.

## PPL30B/G

Grade 11, Healthy Active Living, Open

None

PPL30B—  
Boys  
PPL30G—  
Girls

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

# Health & Physical Education

## PPL30F

Grade 11, Co-ed, Healthy Active Living, Open, French

None

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

## PPL401

Grade 12, Healthy Active Living, Open

None

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

## PPL40F

Grade 12, Healthy Active Living, Open, French

None

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

## PAI301

Grade 11, Strength & Conditioning, Open

None

This unique course is designed for students interested in experiencing a variety of fitness and weight training programs. Anyone passionate about training will find this course to be valuable in attaining their personal fitness goals. Although weight training will be a major component, aerobic components such as circuit training, running, rowing, and cycling will be included. Students will be introduced to the various forms of strength and conditioning programs, and they will design and follow their own personal program. Other related topics such as nutrition and injury prevention will be introduced to complement the goals of the course. This course will appeal to team athletes as well as students simply interested in getting into the best shape of their life!



# Health & Physical Education

## PAI401

Grade 12, Strength & Conditioning, Open

None

This unique course is designed for students interested in experiencing a variety of fitness and weight training programs. Anyone passionate about training will find this course to be valuable in attaining their personal fitness goals. Although weight training will be a major component, aerobic components such as circuit training, running, rowing, and cycling will be included. Students will be introduced to the various forms of strength and conditioning programs, and they will design and follow their own personal program. Other related topics such as nutrition and injury prevention will be introduced to complement the goals of the course. This course will appeal to team athletes as well as students simply interested in getting into the best shape of their life!

## PPZ3C1

Grade 11, Healthy Active Living, Open

None

This course helps students develop a personalized approach to healthy living. Students will examine the factors that affect their own health and the health of individuals as members of the community. They will learn about the components of the *Vitality* approach to healthy living – an initiative that promotes healthy eating, an active lifestyle, and a positive self-image. Throughout this course, students will develop the skills necessary to take charge of and improve their own health, as well as to encourage others to lead healthy lives.

# Mathematics

## MPM1D1

Grade 9, Math, Academic

None

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

## MFM1P1

Grade 9, Math, Applied

None

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

## MAT1L1

Grade 9, Math, Essentials

None

This course provides students who have experienced significant difficulties in previous mathematics courses an opportunity to obtain sufficient background and skill development to prepare them for Grade 10 Essential Math. Whenever possible, ideas will be presented in a real-life context, providing students with the opportunity to explore, organize, interpret, and use mathematical models to solve problems. Technology and manipulative materials will be used whenever appropriate. Assessment and evaluation will be done using a wide variety of strategies.

# Mathematics

## MPM2D1

Grade 10, Principles of  
Mathematics, Academic

MPM1D1

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

## MFM2P1

Grade 10, Foundations of  
Mathematics, Applied

MFM1P1

MFM1D1

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

## MAT2L1

Grade 10, Math, Essentials

MAT1L1

MFM1P1

This course enables students to broaden their understanding of key mathematical concepts to prepare them for the mathematics required for everyday living. Students will solve problems involving patterning and relationships, measurement and geometry, and proportional reasoning through a series of real-life applications. The focus on authentic context and the use of technology helps the students to develop and apply appropriate mathematical strategies to everyday situations. This course is of particular interest to students who require further practice and consolidation of skills before entering MEL3E1.

# Mathematics

## MCR3U1

Grade 11, Functions, University

MPM2D1

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

## MCF3M1

Grade 11, Functions & Applications, University/College

MFM2D1

MFM2P1

This course introduces basic features of the function by extending students' experiences with quadratic relations. It focuses on quadratic, trigonometric, and exponential functions and their use in modelling real-world situations. Students will represent functions numerically, graphically, and algebraically; simplify expressions; solve equations; and solve problems relating to financial and trigonometric applications. Students will reason mathematically and communicate their thinking as they solve multi-step problems.

## MBF3C1

Grade 11, Foundations for College Math, College

MPM2P1

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

## MEL3E1

Grade 11, Math for Work and Everyday Life, Workplace

MPM2L1

MPM1P1

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.

# Mathematics

## MDM4U1

Grade 12, Mathematics of Data Management, University

MCF3M1

MCR3U1

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.

## MHF4U1

Grade 12, Advanced Functions, University

MCR3U1

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

## MCV4U1

Grade 12, Calculus & Vectors, University

MCR3U1

Advanced Functions (MHF4U1) must be taken prior to or concurrently with MCV4U1.

This course builds on students' previous experience with functions and their developing understanding of rates of change. Students will solve problems involving geometric and algebraic representation 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 choose to pursue careers in fields such as science, engineering, economics, and some areas of business, including those students who will be required to take a university-level calculus, linear algebra, or physics course.

## MAP4C1

Grade 12, Foundations for College Math, College

MBF3C1

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.

# Mathematics

## MEL4E1

Grade 12, Math for Work and  
Everyday Life, Workplace

**MEL3E1**

**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.**

# Science

## SNC1D1

Grade 9, Science, Academic

None

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.

## SNC1P1

Grade 9, Science, Applied

None

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.

## SNC1L1

Grade 9, Science, Essentials

None

This course enables students to deepen their knowledge and understanding of the basic concepts in biology and chemistry, to develop practical skills in science investigation and to apply their knowledge and skills to everyday situations. Students conduct investigations into practical problems and issues related to cells and reproduction and the structure and properties of elements and compounds. A variety of hands-on activities assist students to acquire concepts. Students will use different reporting strategies to facilitate the development of communication skills. The overall aim is to ensure the scientific literacy of the students.

# Science

## SNC2D1

Grade 10, Science, Academic

SNC1D1

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.

## SNC2P1

Grade 10, Science, Applied

SNC1D1

SNC1P1

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.

## SNC4M1

Grade 12, Science, University/  
College, Alternate Years

SNC2D1

Any Grade 11  
University or  
College prepara-  
tion course in  
science.

This course enables students, including those pursuing post-secondary programs outside the sciences, to increase their understanding of science and contemporary social and environmental issues in health-related fields. Students will explore a variety of medical technologies, pathogens and disease, nutritional science, public health issues, and biotechnology. The course focuses on the theoretical aspects of the topics under study and helps refine students' scientific investigation skills.

Available  
2019-2020

## SNC4E1

Grade 12, Science, Workplace

SNC2P1

SNC2L1

This course provides students with fundamental science knowledge and workplace skills needed to prepare them for success beyond secondary school. Students will explore hazards in the workplace, chemicals in consumer products, disease and its prevention, electricity, safety and at work, and nutritional science. Emphasis is placed on current topics in science and relevant, practical activities that develop students' literacy and mathematical literacy skills and enhance their scientific literacy.

Available  
2019-2020



# Biology

## SBI3U1

Grade 11, Biology, University

SNC2D1

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.

## SBI3C1

Grade 11, Biology, College

SNC2D1

SNC2P1

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.

## SBI4U1

Grade 12, Biology, University

SBI3U1

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.

# Chemistry

## SCH3U1

Grade 11, Chemistry, University

SNC2D1

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.

## SCH4U1

Grade 12, Chemistry, University

SCH3U1

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.

# Physics

## SPH3U1

Grade 11, Physics, University

SNC2D1

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.

## SPH4U1

Grade 12, Physics, University

SPH3U1

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, rotational, and magnetic fields and electromagnetic radiation. Students will also explore the wave nature of light, quantum mechanics, and special relativity. They will further develop their scientific investigation skills, learning, for example, how to analyse, qualitatively and quantitatively, data related to a variety of physics concepts and principles. Students will also consider the impact of technological applications of physics on society and the environment.

**Available  
2019-2020**

**SCH4C1 and SPH4C1 are not offered at Carleton Place High School.**

Students requiring this course for a College pre-requisite may consider taking SCH3U1 or SPH3U1 or should speak with Guidance to seek an alternative.

# Family Studies

## HFN201

Grade 10, Food & Nutrition,  
Open

None

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

## HPW3C1

Grade 11, Living & Working  
with Children, College

None

This course focuses on the well-being of children in families and community settings. Students will study child behaviour and child development in the context of relationships with parents and others in the community, and will learn through research and by observing and interacting with children. This course prepares students for further study of children, familiarizes them with occupational opportunities related to working with children, and introduces them to skills used in researching and investigating children's behaviour in response to others.

## HIP401

Grade 12, Personal Life  
Management, Open

None

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

## HHS4U/4C

Grade 12, Individuals & Families  
in a Diverse Society, University/  
College

Any University or College  
preparation course in  
Social Sciences and  
Humanities, English, or  
Canadian and World  
studies.

This course applies current theories and research from the disciplines of anthropology, psychology, and sociology to the study of individual development, family behaviour, intimate and parent-child relationships, and the social structures within which families interact within the diverse Canadian society. Students will learn the interpersonal skills required to contribute to the well-being of families, and learn the investigative skills required to conduct and evaluate research about individuals and families.

Available  
2019-2020

# Family Studies

## HSC4M1

Grade 12, World Cultures,  
University/College

**Any University or College  
preparation course in  
Social Sciences and  
Humanities, English, or  
Canadian and World  
studies.**

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

# General Social Science

## HSP3UF

Grade 11, Introduction à Anthropologie, Psychologie et Sociologie, University, French

Grade 10 Academic English or History

French Immersion students should take this course.

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

**Available 2019-2020**

## HSP3U1

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

Grade 10 Academic English or History

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

**Available 2019-2020**

## HSP3C1

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

None

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

**Available 2019-2020**

# Communications Technology

## TGJ201

Grade 10, Communications  
Technology, Open

None

This course introduces students to communications technology from a media perspective. Students will work in the areas of TV/ video and movie production, radio and audio production, print and graphic communications, photography, and interactive new media and animation. Student projects may include computer-based activities such as creating videos, editing photos, working with audio, cartooning, developing animations, and designing web pages. Students will also develop an awareness of environmental and societal issues related to communications technology, and will explore secondary and post-secondary education and training pathways and career opportunities in the various communications technology fields. Students may also have the opportunity to work on the school yearbook.

## TGJ3M1

Grade 11, Communications  
Technology, University or  
College

None

This course examines communications technology from a media perspective. Students will develop knowledge and skills as they design and produce media projects in the areas of live, recorded, and graphic communications. These areas may include TV, video, and movie production; radio and audio production; print and graphic communications; photography; digital imaging; broadcast journalism; and interactive new media. Students will also develop an awareness of related environmental and societal issues, and will explore college and university programs and career opportunities in the various communications technology fields.

## TGJ301

Grade 11, Communications  
Technology: Broadcast & Print  
Production, Open

None

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 will explore secondary and post-secondary education and training pathways and career opportunities in the various communications technology fields.

# Communications Technology

## TGJ4M1

Grade 12, Communications  
Technology, University/College

TGJ3M1

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.

## TGJ4O1

Grade 12, Communications  
Technology: Digital Imagery &  
Web Design, Open

None

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

## TCJ2O1

Grade 10, Construction  
Technology, Open

None

Available as a  
Grade 9  
elective  
course.

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 post-secondary pathways leading to careers in the industry.



# Construction Technology

## TWJ3E1

Grade 11, Custom  
Woodworking, Workplace

None

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

## TWJ4E1

Grade 12, Custom  
Woodworking, Workplace

TWJ3E1

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

Note: This course may be taken more than once for the "practice and refinement of skills needed to raise the quality of the student's performance".

# Manufacturing Technology

## TMJ3E1

Grade 11, Manufacturing  
Technology, Workplace

None

This hands-on, project-based course is designed for students planning to enter an occupation or apprenticeship in manufacturing directly after graduation. Students will work on a variety of manufacturing projects, developing knowledge and skills in design, fabrication, and problem solving and using tools and equipment such as engine lathes, milling machines, and welding machines. In addition, students may have the opportunity to acquire industry-standard certification and training. Students will develop an awareness of environmental and societal issues related to manufacturing and will learn about secondary school pathways that lead to careers in the industry.

## TMJ4E1

Grade 12, Manufacturing  
Technology, Workplace

TMJ3E1

This project-driven, hands-on course builds on students' experiences in manufacturing technology. Students will further develop knowledge and skills related to the use of engine lathes, milling machines, welding machines, and other tools and equipment as they design and fabricate solutions to a variety of technological challenges in manufacturing. Students may also have opportunities to acquire industry-standard training and certification. Students will expand their awareness of environmental and societal issues and of career opportunities in the manufacturing industry.

Note: This course may be taken more than once for the "practice and refinement of skills needed to raise the quality of the student's performance".

# Cooperative Education

Cooperative Education is a ministry-approved program that allows students to earn secondary school credits while completing a work placement. The program consists of a co-op course monitored by a cooperative education teacher, a related curriculum course in any subject and a work placement.

Students can apply two co-op credits towards their compulsory high school graduation requirements. Co-op placements are arranged for students in conjunction with the co-op teacher and must follow Ministry of Education policy and guidelines.

## Key benefits of co-op programs

Co-op students have the opportunity to:

- Experience hands-on learning
- “Test-drive” career options
- See the relevance of their classroom learning
- Earn credits through workplace experience
- Develop the essential skills and habits required in the workplace
- Gain valuable work experience that will help build a résumé for post-secondary programs and future employment.

### DC030

Grade 11, Creating Opportunities through Co-op, Open

None

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.

### COOP32/34

Cooperative Education Linked to a Related Course (or Courses)

None

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.