



## **School Course Calendar 2022-2023**

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# Introduction

## Mission

Nimbus Christian Education is a response to God's call to raise up our children to know him anytime, any-pace, any-space, in every area of life.

## About Nimbus Christian Education (NCE)

Nimbus Christian Education (NCE) is registered as a private school with the Ontario Ministry of Education.

We exist to partner with parents, students, and schools to provide online courses with a Christian perspective for elementary and secondary school students. NCE offers courses using the Ontario Ministry of Education curriculum and offers credits as outlined in [Ontario Schools: Kindergarten to Grade 12 - Policy and Program Requirements \(2016\)](#) to provide students with the opportunity to supplement an existing school program. We support and encourage students to work towards completion of the OSSD requirements as this is an important step to becoming a contributing member of society and to fully recognizing the role that God has for all people in the world.

Nimbus Christian Education's online school offers an asynchronous program meaning that students may enroll at any time throughout the year and following enrollment are given 12 months in which they complete the course. As such we do not follow a conventional daily/weekly timetable or school year calendar. Students are expected to work with their course teacher and the Principal, as necessary, to establish regular check in and communication times and to define an individualized program for the completion of the credit requirements.

*Alex van Donkersgoed*

Nimbus Christian Education Principal

# The Ontario Secondary School Diploma

In order to earn an OSSD, a student entering must earn a minimum of 30 credits, including 18 compulsory credits and 12 optional credits. Students must also complete 40 hours of community involvement activities and must pass the Ontario Secondary School Literacy Test.

## Student Attendance

Students in the province of Ontario are required to attend school until they reach the age of 18 or until they have obtained an Ontario Secondary School Diploma (OSSD).

Regular attendance in any learning environment is imperative to success. Irregular or infrequent attendance diminishes the student's learning experience. In order for learning to occur a student must be present within the learning environment.

[Review the complete Attendance Policy for Nimbus Christian Education here.](#)

## Student Code of Conduct

It is the duty and responsibility of the Principal to enforce the consequences when people do not obey the code of behaviour expected of all people within our online school community.

NCE is committed to maintaining a Safe Online School Environment. Protection of a person's dignity and self-image.

[Please review this document to see the Nimbus Christian Education Code of Conduct.](#)

## Definition of a Credit

A credit is awarded when a student successfully completes a full course. These courses will have at least 110 hours of scheduled time. The credit is granted to the student by the Principal on behalf of the Minister of Education of Ontario.

## Compulsory Credits

Students must earn the following 18 credits in order to obtain the Ontario Secondary School Diploma\*:

- 4 credits in English (one credit per grade)
- 3 credits in Mathematics (at least 1 credit in Grade 11 or 12)
- 2 credits in Science
- 1 credit in Canadian History
- 1 credit in Canadian Geography
- 1 credit in The Arts (visual art, drama or music)
- 1 credit in Health and Physical Education
- 1 credit in French as a Second Language
- .5 credit in Career Studies
- .5 credit in Civics
- Plus one credit from each of the following groups:
  - 1 additional credit in English, or any course in French as a Second Language, or any course in a Native language, or any course in a Classical or an International Language, or any course in the Social Sciences and the Humanities or Canadian and World Studies or Guidance and Career Education, or Cooperative Education
  - 1 additional credit in Health and Physical Education, or The Arts, or Business Studies, or French as a Second Language, or Cooperative Education
  - 1 additional credit in Science (Grade 11 or 12) or Technological Education (Grades 9-12), or French as a Second Language or Computer Studies or Cooperative Education

**\*Note** - that a maximum of 3 English as a Second Language (ESL) credits may be counted towards the 4 compulsory courses in English, but the fourth must be a credit earned for a Grade 12 compulsory English course. A maximum of 2 cooperative education credits can count as compulsory credits. In Groups 1, 2, and 3 a maximum of 2 credits in French as a second language can count as compulsory credits, one from group 1 and one from either group 2 or group 3.

- In addition to the compulsory credits, students must complete:
  - 12 optional credits
  - 40 hours of community involvement
  - the provincial literacy requirements
  - Two of the courses they take must be taken online

Nimbus Christian Education does not currently offer all compulsory or optional credits required to obtain the OSSD.

## **The Ontario Secondary School Certificates**

There are alternatives to the OSSD available to students in Ontario who are unable or do not intend to complete its full requirements. NCE does not currently offer these alternatives.

The Ontario Secondary School Certificate (OSSC) will be granted on request to students who leave school before earning the Ontario Secondary School Diploma, provided that they have earned a minimum of 14 credits distributed as follows:

### Compulsory Credits (total of 7)

- 2 credits in English
- 1 credit in Mathematics
- 1 credit in Science
- 1 credit in Canadian History or Canadian Geography
- 1 credit in Health and Physical Education
- 1 credit in the Arts, Computer Studies or Technological Education

The provisions for making substitutions for compulsory credits described below also apply to the Ontario Secondary School Certificate.

## **The Certificate of Accomplishment**

Students who leave school before fulfilling the requirements for the Ontario Secondary School

Diploma or the Ontario Secondary School Certificate may be granted a Certificate of Accomplishment. The Certificate of Accomplishment may be a useful means of recognizing achievement for students who plan to take certain vocational programs or other kinds of further training, or who plan to find employment after leaving school.

Students who return to school to complete additional credit and non-credit courses will have their transcript updated, but will not be issued a new Certificate of Accomplishment.

## **Substitution for Compulsory Courses**

In order to allow flexibility in designing a student's program and to ensure that all students can qualify for the secondary school diploma, substitutions may be made for a limited number of compulsory credit courses from the remaining courses offered by the school that meet the requirements for compulsory credits. A maximum of three compulsory credits may be substituted, subject to the approval of the Principal. The decision to make a substitution for a student will only be made if the student's best interests are served. The Principal will determine whether or not a substitution should be made after consulting with parents, the student and appropriate school staff. Each substitution will be noted on the student's Ontario Student Transcript. For the full policy, please contact the Principal.

## **Community Involvement Requirements**

As stated in Ontario Schools: Kindergarten to Grade 12: Policy and Program Requirements, 2016 (OS), every student must complete a minimum of 40 hours of community involvement activities as part of the requirements for an Ontario Secondary School Diploma (OSSD). The purpose of the community involvement requirement is to encourage students to develop awareness and understanding of civic responsibility and of the role they can play and the contributions they can make in supporting and strengthening their communities. NCE encourages student community involvement and will provide students with a list of suggested activities as requested. Students are responsible for submitting a notification of planned activities sheet for approval prior to their service and a completion of planned activities sheet following their service. The community involvement requirements include:

- A minimum of 40 hours

- Completed outside of scheduled class time
- Not part of a credit course
- Must be service for which no one receives payment
- Completed by the end of grade 12

Students entering Grade 9 may begin their community involvement during the summer of the year they begin Grade 9. Students need not complete any hours in a particular year but may choose to complete the required hours according to any schedule.

More details can be found at: <http://www.edu.gov.on.ca/extra/eng/ppm/124a.html>

## **Ontario Secondary School Literacy Test (OSSLT) & Ontario Secondary School Literacy Course (OSSLC)**

All students must successfully fulfil the Ontario Secondary School Literacy Requirements. This includes students who enter the Ontario secondary school system after Grade 9 but who will receive the Ontario Secondary School Diploma. Students will normally take the literacy test in their Grade 10 year; however students who fail the test or need extra tutoring in English may take it in subsequent years. The Ontario Secondary School Literacy Course (OSSLC) is another way of meeting the literacy graduation requirement. At the discretion of the Principal, a student who has not passed the Literacy Test, may be allowed to enrol in this credit course (OLC4O) before he or she has had a second opportunity to take the Literacy Test.

Information about accommodations for students with special education needs is summarized below. Specific details regarding these options can be found in appendix 3 of Ontario Schools: Kindergarten to Grade 12 - Policy and Program Requirements (2016)

- **Accommodations:** Students who are receiving special education programs and services and who have an Individual Education Plan (IEP) have a fair and equal opportunity to successfully complete the OSSLT or the OSSLC. These students will be provided accommodations. Accommodations change only the way in which the OSSLT is administered or the OSSLC is taught, or the way in which the student responds to the components of the test or the course. They do not alter the content of the test or the expectations of the course or affect the validity or reliability of the test or the evaluation of student learning in the course. Any

accommodations will be prepared and planned well in advance of completing the test.

- **Special Provisions:** Special provisions are adjustments to the setting and/or timing for writing the test for English language learners. They do not affect the validity or reliability of the test. Special provisions for English language learners may be provided for the test if the principal deems such provisions to be in the best educational interest of the student. Any special provisions will be prepared and planned well in advance of completing the test.
- **Deferrals:** Deferrals are intended for students who are working towards an OSSD and who have not yet acquired a level of proficiency in English that would allow them to successfully complete the test. The writing of the test may be deferred only to the time of the next scheduled test. Students who are granted a deferral will write the test at the next scheduled sitting, as prescribed by the EQAO.
- **Exemption:** To be eligible for an exemption, a student must have an IEP. The IEP must include documentation to support an exemption from the literacy graduation requirement and a clear indication that the student is not working towards an OSSD. Both parental consent and the approval of the principal are required for an exemption.

Students qualify to enrol in the OSSLC when they have had two opportunities to take the OSSLT and have failed the OSSLT at least once, or if the principal determines that it is in the best educational interests of the student. This means that students are eligible to enrol in the OSSLC before they have had their second opportunity to take the test. The student also qualifies to enrol in the OSSLC if the accommodation required in a student's IEP were not available on the day the OSSLT was administered. The reading and writing competencies required by the OSSLT form the instructional and assessment core of this course. Students who pass the course are considered to have met the literacy graduation requirement. The OSSLC can be used to fulfil the compulsory English requirement for either Grade 11 or Grade 12 although it may not be accepted as the Grade 12 English entrance requirement for university or college programs.

Nimbus Christian Education does not currently offer the OSSLT or OSSLC programs or

services. In the event that a student requires these services Nimbus Christian Education will recommend another school that will provide these opportunities.

## Ontario Ministry of Education Resources

To find the official documentation from the Ontario Ministry of Education please refer to these documents which can be found at the following links:

[Ontario Schools: Kindergarten to Grade 12 - Policy and Program Requirements \(2016\)](#)

[Ontario Secondary School Curriculum Guidelines](#)

[Ontario Elementary School Curriculum Guidelines](#)

## Academic Program

Nimbus Christian Education seeks to maintain high academic standards, along with its emphasis on spiritual development. Our limited course offering is intended to supplement the full course offerings of a traditional high school.

## Types of Courses

Secondary School courses in grade 9 and 10 are organized into three types: **Academic (D)**, **Applied (P)**, or **Open (O)** levels. All courses build on completion of previous grades and have rigorous standards. All courses prepare students for study in the senior grades. Academic and Applied courses differ in the balance between essential concepts and additional requirements, and in the balance between theory and application. They differ primarily, not in the level of skill required, but in the kinds of problems presented and the application of the content and concepts.

### Academic Courses (D)

Focus on the essential concepts of the discipline. Course work develops students' knowledge and skills by emphasizing theoretical, abstract applications of the essential concepts and

incorporating practical applications as appropriate. The emphasis is on theory and abstract thinking as a basis for future learning and problem solving.

### **Applied Courses (P)**

Focus on the essential concepts of the discipline, but course work develops students' knowledge and skills by emphasizing practical, concrete applications of these concepts and incorporating theoretical applications as appropriate. Course work relates to familiar, real-life situations and provides students with opportunity for extensive hands-on applications of the concepts they study.

### **Open Courses (O)**

Have one set of expectations for the subject, appropriate for all students in a given grade. These courses are designed to provide students with a broad educational base that will prepare them for their studies in higher grades, and for productive participation in society.

Secondary School courses in grade 11 and 12 are organized into five types: **University (U)**, **University/College (M)**, **College (C)**, **Workplace (E)**, and **Open (O) courses**. These courses differ in how a student is prepared to continue their education in various aspects of life.

### **University Courses (U)**

Are designed to equip students with the knowledge and skills they need to meet the entrance requirements for university programs.

### **University/College Courses (M)**

Are designed to equip students with the knowledge and skills they need to meet the entrance requirements for specific programs offered at universities and colleges.

### **College Courses (C)**

Are designed to equip students with the knowledge and skills they need to meet the requirements for entrance to most college programs or for admission to apprenticeship or other training programs.

### **Workplace Courses (E)**

Are designed to equip students with the knowledge and skills they need to meet the expectations of employers if they plan to enter the workplace directly after graduation or the

requirements for admission to certain apprenticeship or other training programs.

### **Open Courses (O)**

Are designed to broaden students' knowledge and skills in subjects that reflect their interests and to prepare them for active and rewarding participation in society. They are not designed with the specific requirements of universities, colleges, or the workplace in mind.

## **Course Codes**

Courses are identified by 3 letters to denote subject area, a number to denote grade level, and a letter to denote course type. For example, 'ENG2D' means English for Grade 10 ("2") students. It is an academic course ("D").

The first character indicates the subject area:

A - Arts	I - Computer Studies
B - Business	L - International Languages
C - Canadian and World Studies	M - Mathematics
E - English	P - Health and Physical Education
F - French	S - Science
G - Guidance and Career Education	T - Technological Studies
H - Social Science and Humanities	

The next two characters differentiate between subjects within the subject area. For example:

CGC - Geography of Canada

CHC – History of Canada in the 20th Century

The first number indicates the grade level of the course:

1 = Grade 9

2 = Grade 10

3 = Grade 11

4 = Grade 12

The letter following the first number indicates the type of the course:

D = Academic

C = College

P = Applied

M = University/College Preparation

O = Open

E = Workplace Preparation

U = University

L = Locally Developed

A student must have a minimum of 6 University (U) or University/College (M) courses to enter university, whereas College (C) or (M) courses are designed for those entering College. Students must choose wisely as they progress through their high school career so as to leave open the proper doors for desired future education.

Transfer courses may be required to enable students to move from one type of course to another in Grades 10-12. These short, focussed courses provide the knowledge and skills required to bridge the gap between courses of different types. Transfer courses are credit-based and are counted toward the 30 credits required for the OSSD. (NCE does not currently offer transfer courses)

## **Cooperative and Experiential Education**

Students in Grade 11-12 may also gain credits and experience through the Cooperative Education program. There is also opportunity for credits through Peer Helping. This occurs when students assist in a classroom situation or assist another student on a regular basis. Both Co-op and Peer Helping credits are available to Canadian and International students.

Cooperative Education courses are described in the document "Cooperative Education and Other Forms of Experiential Learning: Policy and Procedures for Ontario Secondary Schools, 2000". A Leadership and Peer Support, Grade 11 credit (GPP3O) is described in "The Ontario Curriculum, Grades 11 and 12: Guidance and Career Education, 2000. With over 50 different placement possibilities, students work in areas of business, science, education, trades and many more. The community is our classroom.

## **Course of Study Outlines**

All courses at NCE have been developed according to the requirements of the Ministry of Education. Detailed outlines of the courses of study are available for informational purposes to both students and parents by request through our website.

## **Ontario Student Record**

The Ontario Student Record folder (OSR) is an official record created when a student enters the Ontario school system and moves with the student from school to school. It is developed under the authority of the Education Act, and the contents are protected under the Freedom of Information and Protection of Privacy Act. The OSR folder contains achievement results, credits earned, and other information important to the education of the student. The information in an OSR is available to supervisory officers and the Principal, and teachers only for the purpose of improving the instruction of the student. Parents of students under age 18 have full access to their student's OSR. The OSRs of students over age 18 are accessible to parents with their student's consent.

## **Ontario Student Transcript**

The Ontario Student Transcript (OST) is a provincially standardized document that provides a comprehensive record of a student's achievement in secondary school. The credits that a student has earned towards fulfillment of the requirements for graduation will be recorded on the OST.

In Grades 9 and 10, the student's achievement with percentage grades earned and the credits earned are recorded for successfully completed courses. In Grades 11 and 12, the student's achievement for all courses taken or attempted is recorded, showing percentage grades earned, credits granted (if successful), or "W" for "withdrawn before completion." (Students repeating a course for which they have already received a credit will have all marks recorded, but only one credit granted). Identification of any course that has been substituted for a compulsory course will be made. Also, confirmation that the student has completed the mandatory requirements of Community Involvement and the Literacy Test will be noted.

## **Full Disclosure on the Student Transcript**

In Grades 9 and 10 marks will be recorded only for those courses that a student has completed successfully. In Grades 11 & 12, however, if students complete a course and achieve a failing grade, their mark will be recorded. Students who withdraw from a course after the Ministry cut off date, which is five instructional days after the first reporting period (i.e. 5 instructional days after the midterm report), will have the course recorded as "withdrawn (W)" on the transcript.

## **Assessment and Evaluation Strategies**

[Link to Policy](#)

The main purpose of assessment and evaluation is to improve student learning. Information gathered through ongoing, varied assessment in our classes helps teachers identify students' strengths and those areas needing improvement. Assessment is the process of gathering information from a variety of sources, including assignments, demonstrations, projects, performances, observations, and discussions. This information should demonstrate how well students are achieving curriculum expectations. As part of assessment, teachers, peers, and individual students provide descriptive feedback that guides efforts for improvement. Assessment is fair, transparent, ongoing and supportive.

Evaluation is the process of judging the quality of a student's work on the basis of established performance standards and assigning a value to represent that quality. It reflects a student's level of achievement of the overall curriculum expectations at a given time. In order to ensure that assessment and evaluation are valid and reliable and that they lead to the improvement of student learning, teachers will use practices and procedures that:

- are fair, transparent, and equitable for all students;
- support all students, including those with special needs and those who are learning the language of instruction;
- are carefully planned to relate to the curriculum expectations and learning goals, and as much as possible to the interests, learning styles and preferences, needs, and experiences of all students;
- are communicated clearly to students and parents at the beginning of the school year or

course and at other appropriate points throughout the school year or course;

- are ongoing, varied in nature, and administered over a period of time to provide multiple opportunities for students to demonstrate the full range of their learning;
- provide ongoing descriptive feedback that is clear, specific, meaningful, and timely to support improved learning and achievement;
- develop students' self-assessment skills to enable them to assess their own learning, set specific goals, and plan next steps for their learning.

Please note that all final exams for Nimbus Christian Education must be proctored. [Please review our proctoring policy here.](#)

## Achievement Levels

Levels of achievement of the curriculum expectations are presented in achievement charts in each of the Ministry of Education's policy documents. These charts are organized into four broad categories of knowledge and skills:

- knowledge/understanding;
- thinking/inquiry;
- communication;
- application/making connections.

The names of the categories may vary slightly to reflect the differences in the specific nature of each subject. The charts contain descriptions of each level of achievement in each category; these are broad in scope and general in nature, but they provide a framework for all assessment and evaluation practices. The achievement levels will enable teachers to make consistent judgements about the quality of students' work and to give clear and specific information about their achievement to their parents. The achievement levels are associated with percentage grades and defined as follows:

**80 - 100% (Level 4)**--A very high to outstanding level of achievement above the provincial standard.

**70 - 79% (Level 3)**--A high level of achievement, at the provincial standard.

**60 - 69% (Level 2)**--A moderate level of achievement, but approaching the provincial

standard.

**50 - 59% (Level 1)**--A passable level of achievement, below the provincial standard.

**Below 50%**-- Insufficient achievement of the curriculum expectations, no credit granted.

## **Prior Learning Assessment and Recognition (PLAR)**

Prior learning includes the knowledge and skills that students have acquired, in both formal and informal ways, outside secondary school. Where such learning has occurred outside Ontario classrooms, students enrolled in Ontario secondary schools and inspected private schools may have their skills and knowledge evaluated against the expectations outlined in provincial curriculum policy documents in order to earn credits towards the secondary school diploma. PLAR procedures are carried out under the direction of the school principal, who grants credits in accordance with PPM129: Prior Learning Assessment and Recognition: Implementation in Ontario Secondary Schools.

The PLAR process involves two components: “challenge” and equivalency. The “challenge process” refers to the process whereby students’ prior learning is assessed for the purpose of granting credit for a course developed from a provincial curriculum policy document.

Assessment instruments for this process must include formal tests (70 percent of the final mark) and a variety of other assessment strategies appropriate to the particular course (30 per cent of the final mark). Such strategies may include the evaluation of student work, including written assignments and laboratory work, and observation of student performance. Determining equivalency involves the assessment of credentials from other jurisdictions. Full policy documents for the PLAR process are available by contacting the Principal.

## **Alternative Credit Options**

Since Nimbus Christian Education is an alternative means of earning a credit for current secondary students, all Nimbus Christian Education students will concurrently be enrolled in a day or home school environment. If students enrolled in our courses are seeking third options for courses not currently offered by their day or home school or by Nimbus Christian Education, the Principal will provide suggestions for alternatives including but not limited to: Virtual High

School of Ontario, the Independent Learning Centre and the Virtual Learning Centre.

## **Reporting Student Achievement**

Ongoing and transparent communication in regards to achievement is vital to student success in any learning environment. Nimbus Christian Education's LMS provides this high level of feedback for parents/guardians and students and will be the primary source of information throughout the course.

Additionally, the school will communicate in a variety of other formats including, but not limited to:

- A mid-term report with grades issued via email upon completion of approximately 50% of the course content in a given course and at the end of each course after the final exam has been completed.
- A final report issued via email, NCE adopts the Ministry of Education's directive that "seventy per cent of the grade will be based on assessments and evaluations conducted throughout the course. Thirty percent of the grade will be based on a final evaluation in the form of an examination, performance, essay, and/or other method of evaluation suitable to the course content and administered towards the end of the course."
- Regular video conferences between student and teacher.
- At least one parent/teacher conference after the midterm report card via phone or video conference.

## **Student Services**

As a provider of online courses, Nimbus Christian Education does not offer a full program of student guidance services. We do believe that each student is capable of being successful and will seek to support that student in setting and meeting goals that will lead to success. The primary responsibility for this will fall on the course teacher who is available to support the student as needed throughout the course. Students are also encouraged to connect with the

Principal in regards to course planning or post secondary planning.

Students in need of extra support within the online learning environment should contact the principal to discuss opportunities for support. This level of support may be at an additional cost to the student and may include one-one tutoring, educational testing, or face to face meetings.

For specific supports that Nimbus Christian Education is prepared to provide please [refer to this document](#).

Students whose first language is not English may require additional support in order to be successful in Nimbus Christian Education courses. This support may be arranged by the Principal at an extra cost to the student and will be addressed on a case by case basis during the enrollment process.

## **Music Certificates Accepted for Credits**

A student who has successfully completed the requirements for one of the following may count a maximum of one non-Grade 12 university/college preparation credit (Music-External (Conservatory, AMX3M) towards the OSSD in addition to any other non-Grade 12 university/college preparation music credits earned in the school:

- Grade VII Practical and Intermediate Rudiments of the Royal Conservatory of Music, Toronto
- Grade VII Practical and Grade III Theory of Conservatory Canada, London, Ontario
- Collegial I Practical and Collegial I Theory of any conservatory of music in the province of Quebec
- Grade V Practical and Grade III Theory of Trinity College, London, England
- Grade VII Practical and Grade VI Theory of the Royal Schools of Music, London, England

A student who has successfully completed the requirements for one of the following may count a maximum of one Grade 12 university/college preparation credit (Music-External (Conservatory, AMX4M) towards the OSSD in addition to any other Grade 12 university/college preparation music credits earned in the school:

- Grade VIII Practical and Advanced Rudiments of the Royal Conservatory of Music, Toronto
- Grade VIII Practical and Grade IV Theory of Conservatory Canada, London, Ontario
- Collegial II Practical and Collegial II Theory of any conservatory of music in the province of Quebec
- Grade VI Practical and Grade IV Theory of Trinity College, London, England
- Grade VIII Practical and Grade VIII Theory of the Royal Schools of Music, London, England

## Course Catalogue

Full details may also be accessed through the Ontario Curriculum policy documents which are also available in the school office or on the Ministry of Education website ([www.edu.gov.on.ca](http://www.edu.gov.on.ca)).

## ELEMENTARY

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### GRADE 5 ENGLISH

powered by Brightspace

**Grade(s):** 5

**Basic Service:** \$725

**Min. Class Size:** 3

**Full Service:** \$995

**Provincial Curriculum:** ON

**Other Fees:** None

**Extended Hours Available:** No

**Course Description:** In this course, students will do more than master basic language skills, they will learn to value the power of language and use it responsibly. Students will learn how to express feelings and opinions and support these opinions with research. They will learn how to use language in formal and informal situations and how to communicate clearly; orally, in writing, and through a variety of media. As students read and reflect on a rich variety of literary, informational, and media texts, they will develop a deeper understanding of themselves and others and of the world around them. They will also develop the ability to understand and critically interpret a range of texts and to recognize that a text conveys one particular perspective among many.

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### GRADE 6 ENGLISH

powered by Brightspace

**Grade(s):** 6

**Basic Service:** \$725

**Min. Class Size:** 3

**Full Service:** \$995

**Provincial Curriculum:** ON

**Other Fees:** None

**Extended Hours Available:** No

**Course Description:** Students will use their life experiences and knowledge from the foundational skills acquired in their primary school years to complete creative, descriptive, and persuasive writing assignments and compelling presentations. Students will engage in meaningful interactions with texts and will explore complex topics through personal reflection. Multiple perspectives will be identified by exploring regional cultures and through the study of

media literacy. Upon completion of this course, students will have the proficiency to enter the intermediate language course.

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## **GRADE 5 MATH**

powered by StudyForge

**Grade(s):** 5

**Basic Service:** \$500

**Min. Class Size:** 1

**Full Service:** \$800

**Provincial Curriculum:** BC

**Other Fees:** None

**Extended Hours Available:** Yes

**Course Description:** In Math 5 there are ten units of study. Each unit will include engaging lesson videos, practice activities, assignments, and some units will include a project where students can apply the skills learned in a real life scenario.

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## **GRADE 6 MATH**

powered by StudyForge

**Grade(s):** 6

**Basic Service:** \$500

**Min. Class Size:** 1

**Full Service:** \$800

**Provincial Curriculum:** BC

**Other Fees:** None

**Extended Hours Available:** Yes

**Course Description:** In Math 6 there are twelve units of study. Each unit will include engaging lesson videos, practice activities, assignments, and some units will include a project where students can apply the skills learned in a real life scenario.

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## **GRADE 5 SCIENCE**

powered by StudyForge

**Grade(s):** 5

**Basic Service:** \$500

**Min. Class Size:** 1

**Full Service:** \$800

**Provincial Curriculum:** BC

**Other Fees:** None

**Extended Hours Available:** Yes

**Course Description:**

Earth Science - Our Earth is made of many materials that change and morph as they move through cycles and can be used as natural resources in the different phases. As a student who is looking forward to a job opportunity, you've been asked to evaluate different natural resource companies about what they do and how they do it. In the end, you are asked to compile your information and create an infographic to demonstrate what you've learned and which company you've decided to work for!

Biology - As students dive into the depth of the human body and how different organ systems function they will be asked to put on their lab coats and join a team of intern doctors on their way to diagnosing a severely ill patient. By the end of their journey through the body they will be able to accurately diagnose the patient based on the symptoms they presented and some suggested diseases. They will have created a medical file for that patient and create a report to deliver back to the patient with their findings.

Chemistry - Clean water is something that everyone requires. What makes up clean water and how can we go about finding, or making it, if we can't find it? Students will dive into Chemistry with a study of solutions. They'll discover what makes a solution and different methods to separate solutions. They'll also explore the Scientific Method – how to craft a lab themselves and apply what they've learned in a hands on application.

Physics - Chores! Nobody likes them, but the majority of people have to do them. So, how can you make your chores easier? Students are tasked to build a compound machine out of simple machines in order to assist themselves with an assigned chore. Meet Adam, a grade 5 student who is also the designer of the "Water Block", and after learning about the 6 different simple machines, you'll get a chance to create your own machine, just like Adam did!

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**GRADE 6 SCIENCE**

powered by StudyForge

**Grade(s):** 6

**Basic Service:** \$500

**Min. Class Size:** 1

**Full Service:** \$800

**Provincial Curriculum:** BC

**Other Fees:** None

**Extended Hours Available:** Yes

**Course Description:**

Earth Science - The Universe is a vast space with so many intricacies involved. With a focus on the Milky Way and its parts, this unit starts off with an extreme environment on Earth that bridges the gap between Earth and Space. We then move beyond Earth to explore the planets and other components of the Universe. Along the way students will be creating a Survival Guide which will help anyone know what is needed to survive in these different extremes, or if it is even possible!

Biology - Eww! Gross! This unit is sure to be a favorite for students as we explore the human bodies and discuss why 'gross' isn't gross, but is totally natural and expected! Students will compile reports, interview adults, write speeches, draw comic strips and in the end, compile a book entitled 'A Pre-Teen's Guide to the Gross and Glorious Human Body'.

Physics - The laws have changed – it's no longer a requirement for adults to wear seatbelts, but is this the right choice? We'll explore Newton's Three laws of Physics, and apply them to the idea of cars and seatbelts to determine if it's a wise choice to wear or not wear a seatbelt. In the end, students will become an activist for their choice and should be able to defend their choices based on the labs, results and information they've learned through the module.

Chemistry - Do we have any food lovers? Whether you are or you aren't, we all need food to survive, and even better if it tastes good! Students will apply their Chemistry learning to create a cookbook called, Mix-It-Up – Cooking with Chemistry, involving both homogeneous and heterogeneous mixtures, as well as separated mixtures. Maybe by the end of this module students will be able to cook dinner

## MIDDLE SCHOOL

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### GRADE 7 ENGLISH

powered by Brightspace

**Grade(s):** 7

**Basic Service:** \$725

**Min. Class Size:** 3

**Full Service:** \$995

**Provincial Curriculum:** ON

**Other Fees:** None

**Extended Hours Available:** No

**Course Description:** In this course, students will do more than master basic language skills, they will learn to value the power of language and use it responsibly. Students will learn how to express feelings and opinions and support these opinions with research. They will learn how to use language in formal and informal situations and how to communicate clearly; orally, in writing, and through a variety of media. As students read and reflect on a rich variety of literary, informational, and media texts, they will develop a deeper understanding of themselves and others and of the world around them. They will also develop the ability to understand and critically interpret a range of texts and to recognize that a text conveys one particular perspective among many.

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### GRADE 8 ENGLISH

powered by Brightspace

**Grade(s):** 8

**Basic Service:** \$725

**Min. Class Size:** 3

**Full Service:** \$995

**Provincial Curriculum:** ON

**Other Fees:** None

**Extended Hours Available:** NO

**Course Description:** This course consolidates student's language knowledge, skills, and strategies and their ability to use them independently. Students will create increasingly complex oral, print, and media texts. Non-fiction texts are closely inspected in this course, as well as traditional poetry and key concepts in popular culture. The final unit consolidates skills in reading comprehension and writing to ensure students have a greater level of independence as

language users before entering high school.

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## GRADE 7 MATH

powered by StudyForge

**Grade(s):** 7 Min.

**Basic Service:** \$500

**Class Size:** 1

**Full Service:** \$800

**Provincial Curriculum:** ON

**Other Fees:** None

**Extended Hours Available:** Yes

### Course Description:

Number Sense and Numeration - Quantity Relationships, Operational Sense and Proportional Relationships

Measurement - Attributes, Units, and Measurement Sense, Measurement Relationships

Geometry and Spatial Sense - Geometric Properties, Geometric Relationships, Location and Movement

Patterning and Algebra - Patterns and Relationships, Variables, Expressions, and Equations

Data Management and Probability - Collection and Organization of Data, Data Relationships, Probability

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## GRADE 8 MATH

powered by StudyForge

**Grade(s):** 8

**Basic Service:** \$500

**Min.Class Size:** 1

**Full Service:** \$800

**Provincial Curriculum:** ON

**Other Fees:** None

**Extended Hours Available:** Yes

### Course Description:

Number Sense and Numeration - Quantity Relationships, Operational Sense and Proportional

Relationships

Measurement - Attributes, Units, and Measurement Sense, Measurement Relationships

Geometry and Spatial Sense - Geometric Properties, Geometric Relationships, Location and Movement

Patterning and Algebra - Patterns and Relationships, Variables, Expressions, and Equations

Data Management and Probability - Collection and Organization of Data, Data Relationships, Probability

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## **GRADE 7 SCIENCE**

powered by StudyForge

**Grade(s):** 7

**Basic Service:** \$500

**Min. Class Size:** 1

**Full Service:** \$800

**Provincial Curriculum:** BC

**Other Fees:** None

**Extended Hours Available:** Yes

### **Course Description:**

Earth Science - Climate change – a controversial topic and one that affects everyone. But does it affect everyone the same? What are the injustices that present themselves in the discussion around the topic of environmental change? Students will engage with the topics and decide for themselves which side of the fence they represent and do so by creating a collection of political artwork along with other activities throughout the module.

Biology - Become an explorer and board the HMS Beagle for a tour of the Galapagos Islands! As you embark you will learn how to prepare for such a journey, and then begin your tour of the incredible islands. While there you'll learn scientific art and become one with the birds, discover how they've adapted to their surroundings and why these adaptations have occurred. Then you'll take your knowledge and apply it to the creation of your own island with different plants and species.

Physics - Dive into the world of engineering as you explore how to help the town of Heritage Valley as they need a different green energy source! You'll create a tool to test three different sources of power and come to a conclusion of which one you feel is suitable for their needs. You'll have to take into consideration how electricity works, the pros and cons to the different sources of energy and overall cost of the building project! Hurry now, the town needs your help!

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## **GRADE 8 SCIENCE**

powered by StudyForge

**Grade(s):** 8

**Basic Service:** \$500

**Min. Class Size:** 1

**Full Service:** \$800

**Provincial Curriculum:** BC

**Other Fees:** None

**Extended Hours Available:** Yes

### **Course Description:**

Earth Science - The Prime Minister is calling, he needs to give a speech at an Environmental Conference on when and where earthquakes will occur and doesn't know a thing about earthquakes and the potential damage they can create! Your mission is to craft a speech for him, after researching where earthquakes are found within North America and how to prepare in the event of an earthquake. You'll read testimonies of experiences, investigate maps and craft his response to the nation.

Biology - The cell is the smallest building block of life. How does the cell relate to us as humans? And what types of cells do we come into contact with? After learning about the two most common types of cells, the prokaryotic and eukaryotic cell, students will get to create a scientific model that helps them represent the cell of their choosing. Then they will take what they've learned about cells and move into a study of viruses and bacteria while applying the basic knowledge of cells in an extremely real world application.

Physics - Have you ever wanted to become a photographer? Taking stunning images of scenery, babies or even weddings! Well now's your chance. In this module, you get to create

your own Pinhole Camera after learning how different lenses and mirrors work and how in combination with light, images are created.

Chemistry - A new art gallery is going up in your town, and as a local artist you've been selected to present your artwork in an entire section of the gallery. The art you've chosen to display depicts a timeline of how the understanding of Chemistry has changed over time. Your art pieces are dynamic, consisting of different types of models, paints, digital pieces and hand drawn pieces, all created to show different theories (Kinetic Molecular Theory and the Atomic Theory) as well as models (Bohr) in Chemistry.

# HIGH SCHOOL

## THE ARTS

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### ALC10/20 INTEGRATED ARTS

powered by Brightspace

**Grade(s):** 9/10

**Basic Service:** \$725

**Type:** Open

**Full Service:** \$995

**Min. Class Size:** 3

**Other Fees:** None

**Prerequisite:**

**Extended Hours Available:** No

**Course Description:** This course integrates two or more of the arts (dance, drama, media arts, music, and visual arts), giving students the opportunity to produce and present integrated art works created individually or collaboratively. Students will demonstrate innovation as they learn and apply concepts, styles, and conventions unique to the various arts and acquire skills that are transferable beyond the classroom. Students will use the creative process and responsible practices to explore solutions to integrated arts challenges.

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### AMU3M MUSIC

powered by Brightspace

**Grade(s):** 11

**Basic Service:** \$725

**Type:** University/college

**Full Service:** \$995

**Min. Class Size:** 3

**Other Fees:** None

**Prerequisite:**

**Extended Hours Available:** No

**Course Description:** This course provides students with opportunities to develop their musical literacy through the creation, appreciation, analysis, and performance of music, including traditional, commercial, and art music. Students will apply the creative process when performing appropriate technical exercises and repertoire and will employ the critical analysis processes when reflecting on, responding to, and analysing live and recorded performances. Students will

consider the function of music in society and the impact of music on individuals and communities. They will explore how to apply skills developed in music to their life and careers.

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### **ADA4M DRAMA**

powered by Brightspace

**Grade(s):** 12

**Basic Service:** \$725

**Type:** University/college

**Full Service:** \$995

**Min. Class Size:** 3

**Other Fees:** None

**Prerequisite:**

**Extended Hours Available:** No

**Course Description:** 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.

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### **AMU4M MUSIC**

powered by Brightspace

**Grade(s):** 12

**Basic Service:** \$725

**Type:** University/college

**Full Service:** \$995

**Min. Class Size:** 3

**Other Fees:** None

**Prerequisite:**

**Extended Hours Available:** No

**Course Description:** 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.

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## BUSINESS

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### **BB110/20 INTRODUCTION TO BUSINESS**

powered by Brightspace

**Grade(s):** 9/10

**Basic Service:** \$725

**Type:** Open

**Full Service:** \$995

**Min. Class Size:** 3

**Other Fees:** None

**Prerequisite:**

**Extended Hours Available:** No

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

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### **BTT10/20 INFORMATION AND COMMUNICATION TECHNOLOGY IN BUSINESS**

powered by Brightspace

**Grade(s):** 9/10

**Basic Service:** \$725

**Type:** Open

**Full Service:** \$995

**Min. Class Size:** 3

**Other Fees:** None

**Prerequisite:**

**Extended Hours Available:** No

**Course Description:** 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.

### **BAF3M FINANCIAL ACCOUNTING FUNDAMENTALS**

powered by Brightspace

**Grade(s):** 11

**Basic Service:** \$725

**Type:** University/College

**Full Service:** \$995

**Min. Class Size:** 3

**Other Fees:** None

**Prerequisite:**

**Extended Hours Available:** No

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

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### **BBB4M INTERNATIONAL BUSINESS FUNDAMENTALS**

powered by Brightspace

**Grade(s):** 12

**Basic Service:** \$725

**Type:** University/College

**Full Service:** \$995

**Min. Class Size:** 3

**Other Fees:** None

**Prerequisite:**

**Extended Hours Available:** No

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

## CANADIAN & WORLD STUDIES

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### CGC1D ISSUES IN CANADIAN GEOGRAPHY

powered by Brightspace

**Grade(s):** 9/10

**Basic Service:** \$725

**Type:** Academic

**Full Service:** \$995

**Min. Class Size:** 3

**Other Fees:** None

**Prerequisite:**

**Extended Hours Available:** No

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

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### CHC2D CANADIAN HISTORY SINCE WORLD WAR I

powered by Brightspace

**Grade(s):** 10

**Basic Service:** \$725

**Type:** Academic

**Full Service:** \$995

**Min. Class Size:** 3

**Other Fees:** None

**Prerequisite:**

**Extended Hours Available:** No

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

## CHC2P CANADIAN HISTORY SINCE WORLD WAR I

powered by Brightspace

**Grade(s):** 10

**Basic Service:** \$725

**Type:** Applied

**Full Service:** \$995

**Min. Class Size:** 3

**Other Fees:** None

**Prerequisite:**

**Extended Hours Available:** No

**Course Description:** 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.

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## CHV2O CIVICS AND CITIZENSHIP (0.5 CREDIT COURSE)

powered by StudyForge

**Grade(s):** 10

**Basic Service:** \$400

**Type:** Open

**Full Service:** \$600

**Min. Class Size:** 3

**Other Fees:** None

**Prerequisite:**

**Extended Hours Available:** No

**Course Description:** In this course you will explore what it means to live as a Christian in community within an ever-changing Canadian culture. The course emphasizes the importance of being a purposeful, informed and active citizen. You will learn about the elements of democracy and the meaning of democratic citizenship in local, provincial, national, and global contexts. In addition, you will learn about other systems of government, discuss social change, examine decision making processes in Canada, examine beliefs and perspectives on civics questions, and practice how to think and act critically and creatively about public issues. Most importantly this course will encourage you to become actively involved in influencing decisions and initiating positive change.

### CHA3U AMERICAN HISTORY

powered by Brightspace

**Grade(s):** 11

**Basic Service:** \$725

**Type:** University

**Full Service:** \$995

**Min. Class Size:** 3

**Other Fees:** None

**Prerequisite:**

**Extended Hours Available:** No

**Course Description:** This course explores key aspects of the social, economic, and political development of the United States from precontact to the present. Students will examine the contributions of groups and individuals to the country's evolution and will explore the historical context of key issues, trends, and events that have had an impact on the United States, its identity and culture, and its role in the global community. Students will extend their ability to apply the concepts of historical thinking and the historical inquiry process, including the interpretation and analysis of evidence, when investigating various forces that helped shape American history.

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### CHW3M WORLD HISTORY TO THE END OF THE FIFTEENTH CENTURY

powered by Brightspace

**Grade(s):** 11

**Basic Service:** \$725

**Type:** University/College

**Full Service:** \$995

**Min. Class Size:** 3

**Other Fees:** None

**Prerequisite:**

**Extended Hours Available:** No

**Course Description:** 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.

## **CGW4U WORLD ISSUES: A GEOGRAPHIC ANALYSIS**

powered by Brightspace

**Grade(s):** 12

**Basic Service:** \$725

**Type:** University

**Full Service:** \$995

**Min. Class Size:** 3

**Other Fees:** None

**Prerequisite:**

**Extended Hours Available:** No

**Course Description:** This course examines the global challenges of creating a sustainable and equitable future, focusing on current issues that illustrate these challenges. Students will investigate a range of topics including culture, economic, and geopolitical relationships, regional disparities in the ability to meet basic human needs, and protection of the natural environment. Students will use geo-technologies and skills of geographic inquiry and analysis to develop and communicate balanced opinions about the complex issues facing Canada and a world that is interdependent and constantly changing.

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## **CHI4U CANADA: HISTORY, IDENTITY, AND CULTURE**

by Brightspace

**Grade(s):** 12

**Basic Service:** \$725

**Type:** University

**Full Service:** \$995

**Min. Class Size:** 3

**Other Fees:** None

**Prerequisite:**

**Extended Hours Available:** No

**Course Description:** This course traces the history of Canada, with a focus on the evolution of our national identity and culture as well as the identity and culture of various groups that make up Canada. Students will explore various developments and events, both national and international, from precontact to the present, and will examine various communities in Canada and how they have contributed to identity and heritage in Canada. Students will investigate the development of culture and identity, including national identity, in Canada and how and why they have changed throughout the country's history. They will extend their ability to apply the concepts of historical thinking and the historical inquiry process, including the interpretation and analysis of evidence, as they investigate the people, events, and forces that have shaped Canada.

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## CHY4U WORLD HISTORY SINCE THE FIFTEENTH CENTURY

powered by Brightspace

**Grade(s):** 12

**Basic Service:** \$725

**Type:** University

**Full Service:** \$995

**Min. Class Size:** 3

**Other Fees:** None

**Prerequisite:**

**Extended Hours Available:** No

**Course Description:** This course traces major developments and events in world history since approximately 1450. Students will explore social, economic, and political changes, the historical roots of contemporary issues, and the role of conflict and cooperation in global interrelationships. They will extend their ability to apply the concepts of historical thinking and the historical inquiry process, including the interpretation and analysis of evidence, as they investigate key issues and ideas and assess societal progress or decline in world history.

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## CIA4U ANALYSING CURRENT ECONOMIC ISSUES

powered by Brightspace

**Grade(s):** 12

**Basic Service:** \$725

**Type:** University

**Full Service:** \$995

**Min. Class Size:** 3

**Other Fees:** None

**Prerequisite:**

**Extended Hours Available:** No

**Course Description:** This course examines current Canadian and international economic issues, developments, policies, and practices from diverse perspectives. Students will explore the decisions that individuals and institutions, including governments, make in response to economic issues such as globalization, trade agreements, economic inequalities, regulation, and public spending. Students will apply the concepts of economic thinking and the economic inquiry process, as well as economic models and theories, to investigate, and develop informed opinions about, economic trade-offs, growth, and sustainability and related economic issues.

## CPW4U CANADIAN AND INTERNATIONAL POLITICS

powered by Brightspace

**Grade(s):** 12

**Basic Service:** \$725

**Type:** University

**Full Service:** \$995

**Min. Class Size:** 3

**Other Fees:** None

**Prerequisite:**

**Extended Hours Available:** No

**Course Description:** This course explores various perspectives on issues in Canadian and world politics. Students will explore political decision making and ways in which individuals, stakeholder groups, and various institutions, including governments, multinational corporations, and non-governmental organizations, respond to and work to address domestic and international issues. Students will apply the concepts of political thinking and the political inquiry process to investigate issues, events, and developments of national and international political importance, and to develop and communicate informed opinions about them.

## COMPUTER STUDIES

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### ICS20 INTRODUCTION TO COMPUTER STUDIES

powered by StudyForge

**Grade(s):** 10

**Basic Service:** \$500

**Type:** Open

**Full Service:** \$800

**Min. Class Size:** 1

**Other Fees:** None

**Prerequisite:**

**Extended Hours Available:** Yes

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

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## ICS3U INTRODUCTION TO COMPUTER SCIENCE

powered by StudyForge

**Grade(s):** 11

**Basic Service:** \$500

**Type:** University

**Full Service:** \$800

**Min. Class Size:** 3

**Other Fees:** None

**Prerequisite:**

**Extended Hours Available:** No

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

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## ICS4U INTRODUCTION TO COMPUTER SCIENCE

powered by Brightspace

**Grade(s):** 12

**Basic Service:** \$725

**Type:** University

**Full Service:** \$995

**Min. Class Size:** 3

**Other Fees:** None

**Prerequisite:**

**Extended Hours Available:** No

**Course Description:** This course consolidates the literacy, communication, and critical and creative thinking skills necessary for success in college and the world of work. Students will participate in a range of activities that require them to make use of e-technologies as well as conventional modes of discourse. Students will reflect on their work throughout the course and in the production of a final portfolio. They will take part in discussions and read texts that have been specifically chosen for 4C students in their graduating year.

## ENGLISH

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### ENG1D ENGLISH

powered by Brightspace

**Grade(s):** 9

**Basic Service:** \$725

**Type:** Academic

**Full Service:** \$995

**Min. Class Size:** 3

**Other Fees:** None

**Prerequisite:**

**Extended Hours Available:** No

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

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### ENG2D ENGLISH

powered by Brightspace

**Grade(s):** 10

**Basic Service:** \$725

**Type:** Academic

**Full Service:** \$995

**Min. Class Size:** 3

**Other Fees:** None

**Prerequisite:**

**Extended Hours Available:** No

**Course Description:** This course is designed to extend the range of oral communication, reading, writing, and media literacy skills that students need for success in their secondary school academic programs and in their daily lives. Students will analyse literary texts from contemporary and historical periods, interpret and evaluate informational and graphic texts, and create oral, written, and media texts in a variety of forms. An important focus will be on the selective use of strategies that contribute to effective communication. This course is intended to

prepare students for the compulsory Grade 11 university or college preparation course.

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## ENG2P ENGLISH

powered by Brightspace

**Grade(s):** 10

**Basic Service:** \$725

**Type:** Applied

**Full Service:** \$995

**Min. Class Size:** 3

**Other Fees:** None

**Prerequisite:**

**Extended Hours Available:** No

**Course Description:** 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.

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## EMS30 MEDIA STUDIES

powered by Brightspace

**Grade(s):** 11

**Basic Service:** \$725

**Type:** Open Min.

**Full Service:** \$995

**Class Size:** 3

**Other Fees:** None

**Prerequisite:**

**Extended Hours Available:** No

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

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## ENG3C ENGLISH

powered by Brightspace

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**Grade(s):** 11

**Basic Service:** \$725

**Type:** College

**Full Service:** \$995

**Min. Class Size:** 3

**Other Fees:** None

**Prerequisite:**

**Extended Hours Available:** No

**Course Description:** This course emphasizes the development of literacy, communication, and critical and creative thinking skills necessary for success in academic and daily life. Students will study the content, form, and style of a variety of informational and graphic texts, as well as literary texts from Canada and other countries, and create oral, written, and media texts in a variety of forms for practical and academic purposes. An important focus will be on using language with precision and clarity. The course is intended to prepare students for the compulsory Grade 12 college preparation course.

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## ENG3U ENGLISH

powered by Brightspace

**Grade(s):** 11

**Basic Service:** \$725

**Type:** University

**Full Service:** \$995

**Min. Class Size:** 3

**Other Fees:** None

**Prerequisite:**

**Extended Hours Available:** No

**Course Description:** This course emphasizes the development of literacy, communication, and critical and creative thinking skills necessary for success in academic and daily life. Students will analyse challenging literary texts from various periods, countries, and cultures, as well as a range of informational and graphic texts, and create oral, written, and media texts in a variety of forms. An important focus will be on using language with precision and clarity and incorporating stylistic devices appropriately and effectively. The course is intended to prepare students for the compulsory Grade 12 university or college preparation course.

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## ENG4C ENGLISH

powered by Brightspace

**Grade(s):** 12

**Type:** College

**Min. Class Size:** 3

**Prerequisite:**

**Other Fees:** None

**Basic Service:** \$725

**Extended Hours Available:** No

**Full Service:** \$995

**Course Description:** This course consolidates the literacy, communication, and critical and creative thinking skills necessary for success in college and the world of work. Students will participate in a range of activities that require them to make use of e-technologies as well as conventional modes of discourse. Students will reflect on their work throughout the course and in the production of a final portfolio. They will take part in discussions and read texts that have been specifically chosen for 4C students in their graduating year.

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## ENG4U ENGLISH

powered by Brightspace

**Grade(s):** 12

**Basic Service:** \$725

**Type:** University

**Full Service:** \$995

**Min. Class Size:** 3

**Other Fees:** None

**Prerequisite:**

**Extended Hours Available:** No

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

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## ETS4U STUDIES IN LITERATURE

powered by Brightspace

**Grade(s):** 12

**Min. Class Size:** 3

**Type:** University

**Prerequisite:**

**Basic Service:** \$725

**Full Service:** \$995

**Other Fees:** None

**Extended Hours Available:** No

**Course Description:** This course is for students with a special interest in literature and literary criticism. The course may focus on themes, genres, time periods, or countries. Students will analyse a range of forms and stylistic elements of literary texts and respond personally, critically, and creatively to them. They will also assess critical interpretations, write analytical essays, and complete an independent study project.

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### **EWC4U THE WRITER'S CRAFT**

powered by Brightspace

**Grade(s):** 12

**Type:** University

**Min. Class Size:** 3

**Prerequisite:**

**Basic Service:** \$725

**Full Service:** \$995

**Other Fees:** None

**Extended Hours Available:** No

**Course Description:** 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.

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### **OLC40 ONTARIO SECONDARY SCHOOL LITERACY COURSE**

powered by Brightspace

**Grade(s):** 12

**Type:** Open

**Min. Class Size:** 3

**Prerequisite:**

**Basic Service:** \$725

**Full Service:** \$995

**Other Fees:** None

**Extended Hours Available:** No

**Course Description:** 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

## ESL

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### ESLBO ENGLISH AS A SECOND LANGUAGE LEVEL 2

powered by Brightspace

<b>Grade(s):</b>	<b>Basic Service:</b> \$725
<b>Type:</b> Open	<b>Full Service:</b> \$995
<b>Min. Class Size:</b> 3	<b>Other Fees:</b> None
<b>Prerequisite:</b>	<b>Extended Hours Available:</b> No

**Course Description:** 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.

## FRENCH AS A SECOND LANGUAGE

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### FSF1D CORE FRENCH

powered by Brightspace

<b>Grade(s):</b> 9	<b>Type:</b> Academic
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**Min. Class Size:** 3

**Full Service:** \$995

**Prerequisite:**

**Other Fees:** None

**Basic Service:** \$725

**Extended Hours Available:** No

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

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## FSF2D CORE FRENCH

powered by Brightspace

**Grade(s):** 10

**Basic Service:** \$725

**Type:** Applied

**Full Service:** \$995

**Min. Class Size:** 3

**Other Fees:** None

**Prerequisite:**

**Extended Hours Available:** No

**Course Description:** This course emphasizes the development of oral communication, reading, writing and listening skills. Students will build on their current knowledge of the French language through various themes such as literature, linguistics, and culture.

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## FSF4U CORE FRENCH

powered by Brightspace

**Grade(s):** 12

**Basic Service:** \$725

**Type:** University

**Full Service:** \$995

**Min. Class Size:** 3

**Other Fees:** None

**Prerequisite:**

**Extended Hours Available:** No

**Course Description:** This course provides extensive opportunities for students to speak and interact in French independently. Students will develop their listening, speaking, reading, and writing skills, apply language learning strategies in a wide variety of real-life situations, and

develop their creative and critical thinking skills through responding to and interacting with a variety of oral and written texts. They will also enrich their understanding and appreciation of diverse French-speaking communities, and will develop skills necessary for lifelong language learning.

## GUIDANCE AND CAREER EDUCATION

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### GLC20 CAREER STUDIES (0.5 CREDIT COURSE)

powered by Brightspace

**Grade(s):** 10

**Basic Service:** \$600

**Type:** Open

**Full Service:** \$800

**Min. Class Size:** 5

**Other Fees:** None

**Prerequisite:**

**Extended Hours Available:** No

**Course Description:** This course teaches students how to develop and achieve personal goals for future learning, work and community involvement. Students will assess their interests, skills and characteristics and investigate current economic and workplace trends, work opportunities, and ways to search for work. The course explores post-secondary learning and career options, prepares students for managing work and life transitions, and helps students focus on their goals through the development of a career plan and post-secondary budget.

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### GWL30 DESIGNING YOUR FUTURE

powered by Brightspace

**Grade(s):** 11

**Basic Service:** \$725

**Type:** Open

**Full Service:** \$995

**Min. Class Size:** 3

**Other Fees:** None

**Prerequisite:**

**Extended Hours Available:** No

**Course Description:** This course prepares students to make successful transitions to postsecondary destinations as they investigate specific postsecondary options based on their skills, interests, and personal characteristics. Students will explore the realities and

opportunities of the workplace and examine factors that affect success, while refining their job-search and employability skills. Students will develop their portfolios with a focus on their targeted destination and develop an action plan for future success.

## HEALTH AND PHYSICAL EDUCATION

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### PPL10 HEALTHY ACTIVE LIVING EDUCATION

powered by Brightspace

**Grade(s):** 9

**Basic Service:** \$725

**Type:** Open

**Full Service:** \$995

**Min. Class Size:** 3

**Other Fees:** None

**Prerequisite:**

**Extended Hours Available:** No

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

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### PPZ3C HEALTH FOR LIFE

powered by Brightspace

**Grade(s):** 11

**Basic Service:** \$725

**Type:** College

**Full Service:** \$995

**Min. Class Size:** 3

**Other Fees:** None

**Prerequisite:**

**Extended Hours Available:** No

**Course Description:** This course enables students to examine the factors that influence their own health practices and behaviours as well as those factors that contribute to the development of healthy communities. It emphasizes the concept of wellness, which addresses all aspects of well-being – physical, cognitive, emotional, spiritual, and social – and promotes healthy eating, physical activity, and building and maintaining a positive sense of self. Students will develop the skills necessary to make healthy choices and create a personal wellness plan. They will also design initiatives that encourage others to lead healthy, active lives. The course prepares students for college programs in health sciences, fitness, wellness, and health promotion.

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## PSK4U INTRODUCTION TO KINESIOLOGY

powered by Brightspace

**Grade(s):** 12

**Basic Service:** \$725

**Type:** University

**Full Service:** \$995

**Min. Class Size:** 3

**Other Fees:** None

**Prerequisite:**

**Extended Hours Available:** No

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

## INTERDISCIPLINARY STUDIES

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### IDC4U INTERDISCIPLINARY STUDIES, DATA SCIENCE

powered by Brightspace

**Grade(s):** 12

**Basic Service:** \$725

**Type:** University

**Full Service:** \$995

**Min. Class Size:** 3

**Other Fees:** None

**Prerequisite:**

**Extended Hours Available:** No

**Course Description:** This course will help students develop and consolidate the skills required for and knowledge of different subjects and disciplines to solve problems, make decisions, create personal meaning, and present findings beyond the scope of a single subject or discipline. Students will apply the principles and processes of inquiry and research to effectively use a range of print, electronic, and mass media resources; to analyse historical innovations and exemplary research; and to investigate real-life situations and career opportunities in interdisciplinary endeavours. They will also assess their own cognitive and affective strategies, apply general skills in both familiar and new contexts, create innovative products, and communicate new knowledge.

This course combines theory from International Business (BBB4M), Mathematics of Data Management (MDM4U), and Computer Science (ICS4U) to cover concepts in the area of Data Science. Data Scientists require skills and experience in all three disciplines in order to be able to analyse data, provide insights and offer suggestions based on data. Students will gain practical experience with Data Science tools, such as R programming and IBM's Data Scientist Workbench, and evaluate case studies based on real world business problems.

## MATHEMATICS

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### MPM1W PRINCIPLES OF MATHEMATICS

powered by StudyForge

**Grade(s):** 9

**Basic Service:** \$500

**Type:** Academic

**Full Service:** \$800

**Min. Class Size:** 1

**Other Fees:** None

**Prerequisite:**

**Extended Hours Available:** Yes

**Course Description:** 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.

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## **MPM2D PRINCIPLES OF MATHEMATICS**

powered by StudyForge

**Grade(s):** 10

**Basic Service:** \$500

**Type:** Academic

**Full Service:** \$800

**Min. Class Size:** 1

**Other Fees:** None

**Prerequisite:**

**Extended Hours Available:** Yes

**Course Description:** 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.

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## **MFM2P FOUNDATIONS OF MATHEMATICS**

powered by StudyForge

**Grade(s):** 10

**Basic Service:** \$500

**Type:** Applied

**Full Service:** \$800

**Min. Class Size:** 1

**Other Fees:** None

**Prerequisite:**

**Extended Hours Available:** Yes

**Course Description:** 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.

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### **MCF3M FUNCTIONS AND APPLICATIONS**

powered by StudyForge

**Grade(s):** 11

**Basic Service:** \$500

**Type:** University/College

**Full Service:** \$800

**Min. Class Size:** 1

**Other Fees:** None

**Prerequisite:**

**Extended Hours Available:** Yes

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

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### **MCR3U FUNCTIONS**

powered by StudyForge

**Grade(s):** 11

**Basic Service:** \$500

**Type:** University

**Full Service:** \$800

**Min. Class Size:** 1

**Other Fees:** None

**Prerequisite:**

**Extended Hours Available:** Yes

**Course Description:** This course introduces the mathematical concept of the function by extending students' experiences with linear and quadratic relations. Students will investigate properties of discrete and continuous functions, including trigonometric and exponential functions; represent functions numerically, algebraically, and graphically; solve problems

involving applications of functions; investigate inverse functions; and develop facility in determining equivalent algebraic expressions. Students will reason mathematically and communicate their thinking as they solve multi-step problems.

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## **MCV4U CALCULUS AND VECTORS**

powered by StudyForge

**Grade(s):** 12

**Type:** University

**Min. Class Size:** 1

**Prerequisite:**

**Basic Service:** \$500

**Full Service:** \$800

**Other Fees:** None

**Extended Hours Available:** Yes

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

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## **MDM4U MATHEMATICS OF DATA MANAGEMENT**

powered by StudyForge

**Grade(s):** 12

**Type:** University

**Min. Class Size:** 1

**Prerequisite:**

**Basic Service:** \$500

**Full Service:** \$800

**Other Fees:** None

**Extended Hours Available:** Yes

**Course Description:** This course broadens students' understanding of mathematics as it relates to managing data. Students will apply methods for organizing and analysing large amounts of

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

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## **MHF4U ADVANCED FUNCTIONS**

powered by StudyForge

**Grade(s):** 12

**Basic Service:** \$500

**Type:** University

**Full Service:** \$800

**Min. Class Size:** 1

**Other Fees:** None

**Prerequisite:**

**Extended Hours Available:** Yes

Course Description: 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.

## **SCIENCE**

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### **SNC1W SCIENCE**

powered by StudyForge

**Grade(s):** 9

**Basic Service:** \$500

**Type:** Academic

**Full Service:** \$800

**Min. Class Size:** 1

**Other Fees:** \$150 Science Kit

**Prerequisite:**

**Extended Hours Available:** Yes

**Course Description:** This course builds on students' previous knowledge of sustainability and the environment, properties of chemicals, electrical applications and space exploration and discovery. Students will develop a deeper understanding of the various factors that affect our environment's sustainability through the study of natural cycles and how these cycles interact and connect to each other. They will expand on their knowledge of solutions and mixtures to develop an understanding of atoms and molecules, how they combine and react, as well as gain an understanding of the Periodic Table of the Elements. Students will explore electricity and its various applications. They will gain an understanding of series and parallel circuits and be able to construct their own simple circuits. The Earth and Space Exploration segment of the course will expose students to various theories related to the formation of the universe and everything in it. They will be challenged to examine their own thoughts about this complex topic. The unit also focuses on current exploration and our increasing understanding of the space beyond Earth's surface. This course is intended for students who choose to pursue careers in fields such as science, engineering, and environmental studies.

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## **SNC2D SCIENCE**

powered by Brightspace

**Grade(s):** 10

**Basic Service:** \$725

**Type:** Academic

**Full Service:** \$995

**Min. Class Size:** 3

**Other Fees:** None

**Prerequisite:**

**Extended Hours Available:** No

**Course Description:** 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.

## **SBI3U BIOLOGY**

powered by Brightspace

**Grade(s):** 11

**Type:** University

**Min. Class Size:** 3

**Prerequisite:**

**Basic Service:** \$725

**Full Service:** \$995

**Other Fees:** None

**Extended Hours Available:** No

**Course Description:** 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.

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## **SCH3U CHEMISTRY**

powered by Brightspace

**Grade(s):** 11

**Type:** University

**Min. Class Size:** 3

**Prerequisite:**

**Basic Service:** \$725

**Full Service:** \$995

**Other Fees:** None

**Extended Hours Available:** No

**Course Description:** 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.

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## **SPH3U PHYSICS**

powered by StudyForge

**Grade(s):** 11

**Type:** University

**Min. Class Size:** 1

**Prerequisite:**

**Other Fees:** \$150 Science Kit

**Basic Service:** \$500

**Extended Hours Available:** Yes

**Full Service:** \$800

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

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## **SBI4U BIOLOGY**

powered by Brightspace

**Grade(s):** 12

**Basic Service:** \$725

**Type:** University

**Full Service:** \$995

**Min. Class Size:** 3

**Other Fees:** None

**Prerequisite:**

**Extended Hours Available:** No

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

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## **SCH4U CHEMISTRY**

powered by Brightspace

**Grade(s):** 12

**Prerequisite:**

**Type:** University

**Basic Service:** \$725

**Min. Class Size:** 3

**Full Service:** \$995

**Other Fees:** None

**Extended Hours Available:** No

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

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### **SNC4M SCIENCE**

powered by Brightspace

**Grade(s):** 12

**Basic Service:** \$725

**Type:** University/College

**Full Service:** \$995

**Min. Class Size:** 3

**Other Fees:** None

**Prerequisite:**

**Extended Hours Available:** No

**Course Description:** This course enables students, including those pursuing postsecondary 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.

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### **SPH4C PHYSICS**

powered by Brightspace

**Grade(s):** 12

**Basic Service:** \$725

**Type:** College

**Full Service:** \$995

**Min. Class Size:** 3

**Other Fees:** None

**Prerequisite:**

**Extended Hours Available:** No

**Course Description:** This course develops students' understanding of the basic concepts of

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

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## **SPH4U PHYSICS**

powered by Brightspace

**Grade(s):** 12

**Basic Service:** \$725

**Type:** University

**Full Service:** \$995

**Min. Class Size:** 3

**Other Fees:** None

**Prerequisite:**

**Extended Hours Available:** No

**Course Description:** This course enables students to deepen their understanding of physics concepts and theories. Students will continue their exploration of energy transformations and the forces that affect motion, and will investigate electrical, gravitational, and magnetic fields and electromagnetic radiation. Students will also explore the wave nature of light, quantum mechanics, and special relativity. They will further develop their scientific investigation skills, learning, for example, how to analyse, qualitatively and quantitatively, data 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.

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## **SOCIAL SCIENCES AND HUMANITIES**

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### **HFA4U Nutrition and Health**

powered by Brightspace

**Grade(s):** 12

**Prerequisite:**

**Type:** University

**Basic Service:** \$725

**Min. Class Size:** 3

**Full Service:** \$995

**Other Fees:** None

**Extended Hours Available:** No

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

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## **HSB4U CHALLENGES AND CHANGE IN SOCIETY**

powered by Brightspace

**Grade(s):** 12

**Basic Service:** \$725

**Type:** University

**Full Service:** \$995

**Min. Class Size:** 3

**Other Fees:** None

**Prerequisite:**

**Extended Hours Available:** No

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