City Academy
Course Calendar 2012-2013

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Principal's Message

City Academy offers credit courses which follow Ontario Ministry of Education Curriculum Guidelines. Utilizing teachers who are subject specialists and following a flexible and unique timetabling format, we are committed to every student's success.

In an environment where the pupil-teacher ratio is very low and expectations are high, our students are assured the personal attention which will maximize achievement in any subject required for an O.S.S.D. - Ontario Secondary School Diploma.

At City Academy we believe that all students are capable of achieving excellence. Our goal is to unlock each student's unique potential through teaching techniques which identify and capitalize on strengths, and correct weaknesses. Study habits learned in all of our courses will assist in all future studies.

Students who attend City Academy are, for the most part, senior students who are university bound and who are looking for a small focused setting where their maximum academic potential can be realized. 99% of our graduates are accepted into universities of their choice and they have reported to us that they were well prepared to be successful at this academic level. The expectation of hard work and a planned approach to learning which they experienced at City Academy has projected into their university experience.

As you read through this calendar, choose your courses carefully with your future education in mind. The choices you make today will affect the choices which are open to you in the future.

Sheila Dever B.A., M.Ed.
Principal

Education in Ontario

City Academy supports the Ontario Ministry of Education's overall purpose of helping individual students to achieve their potential development as learners. Through its program of studies, this school supports the Ontario Ministry's Goals of Education which consist of helping each student to:

1) develop the capacity to observe, sense, inquire, interpret, analyse, synthesize, evaluate and communicate effectively;
2) develop resourcefulness, adaptability and creativity in learning and living;
3) acquire the basic knowledge and skills needed to comprehend and express ideas through words, numbers and other symbols;
4) develop physical fitness and good health;
5) gain satisfaction from participating and from sharing the participation of others in various forms of artistic expression;
6) develop a feeling of self-worth;
7) develop an understanding of the role of the individual within the family and the role of the family within society;
8) acquire skills that contribute to self-reliance in solving practical problems in everyday life;
9) develop a sense of personal responsibility in society at the local, national and international levels;
10) develop esteem for the cultures, customs and beliefs of a wide variety of societal groups;
11) acquire skills and attitudes that will lead to satisfaction and productivity in the real world of work;
12) develop respect for the environment and a commitment to the wise use of resources; and
13) develop values related to personal, ethical or religious beliefs and to the common welfare of society.

Expectations of Students

Students are expected to behave at all times in a manner which will bring credit to our school. The quality of the school and the quality of the education that it provides depend on the industry, intelligence, and courtesy of the students and the staff who share in the school community.

1. A pupil shall:

- be diligent in attempting to master such studies as are part of the program in which the pupil is enrolled;
- exercise self-discipline;
- accept such discipline as would be exercised by a kind, firm, and judicious parent;
- attend classes punctually and regularly;
- be courteous to fellow pupils and obedient and courteous to teachers;
- be clean in person and habits;
- take such tests and examinations as are required by or under the Act or as may be directed by the Minister, and;
- show respect for school property.

Student Code of Conduct

- **ATTITUDE –** A positive, cooperative and focused attitude is expected from every student everyday. A daily demonstration of superior effort is a school norm. Students will be treated as adults and therefore it is assumed they will behave like adults.
- **RESPECT** – It is expected that students will actively demonstrate a respect for the school, the curriculum, the teachers and fellow students. Interference with the delivery of program and other students' learning will not be tolerated.
- **ATTENDANCE** - For maximum success all classes must be attended. After an absence of more than 5 days a final assessment of over 80% will be impossible without extra work. The school must be informed of a student absence before 8:15AM.
  A parent or doctor's note, explaining the absence, must be presented to the teacher if a test or exam is missed.
  Missed work must be completed within 24 hours.
  Special arrangements may be made for severe health reasons, if absences do not compromise the integrity of the course content or the course delivery.
- **PUNCTUALITY** - Latecomers interrupt the class and demonstrate a lack of respect for fellow students and the teacher; therefore a late student may be refused entry to the class. After 5 unnecessary lates (at the beginning of the class or after break) the student will see the principal and may be removed from the course.
- **HOMEWORK and CLASS PREPARATION** - Students should plan to do at least 1 hour of homework per class per night. Steady work will alleviate the last minute panic and increase the chances of success. Failure to complete assigned homework lessens a student's ability to benefit from classroom instruction. Continually arriving unprepared (proper texts, writing tools, homework, etc.) will result in a meeting with the principal and the students' parents where a decision will be made as to whether or not the student will benefit from continuing in the course or in the school.
- **ASSIGNMENTS** - Assignments are an integral part of any course. Because we are preparing students for university it is expected that all assignments be completed and submitted on the due dates. Students are expected to carry an agenda book and to focus on time management.
- **PLAGIARISM** - Plagiarism will result in a mark of zero and possible removal from the course and from the school.
- **SMOKING** - Smoking is not permitted anywhere on either the 3080 Yonge St. property or the 180 Bloor St property or on the sidewalks surrounding the properties. Students who smoke are encouraged to do so as they walk in groups of no more than three. Failure to abide by this rule may result in removal from the school following a meeting with parents.
- **CELL PHONES and PDA's** - Cell phones and PDA's are to be turned off during class time. If they are brought into the school they should be kept in a pocket or a purse. Inappropriate use of them or of PDAs may result in these items being confiscated.
- **ILLEGAL SUBSTANCES** - Possession, use or the after affects of use of any illegal substances will result in an automatic removal from the school.

At the end of each semester a recommendation will be made to the principal by the student's teachers as to whether the student's presence at the school has benefited the student and/or fellow students. For those students who have raised concerns, a meeting with parents, teachers and the principal will be organized and a decision will be made about the student's future at the school.

Diploma Requirements

Ontario Secondary School Diploma OSSD

In order to earn an Ontario Secondary School Diploma (OSSD), a student entering Grade 9 in the 1999-2000 school year or on subsequent years 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 provincial secondary school literacy graduation requirement. In addition to the 18 compulsory credits, students must earn 12 optional credits. Students may earn these credits by successfully completing courses that they have selected from the courses listed as available in the school course calendar.

Compulsory Credits (Total of 18)

Students must earn the following compulsory credits in order to obtain the Ontario Secondary School Diploma:

- 4 credits in English (1 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
- 1 credit in health and physical education
- 1 credit in French as a second language
- ½ credit in civics
- ½ credit in career studies

Plus:

- 1 additional credit in English, or French as a second language,** or a native language, or a classical or an international language, or social sciences and the humanities, or Canadian and world studies, or guidance and career education, or cooperative education***
- 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, or French as a second language,** or computer studies, or cooperative education ***
- Optional Credits (total of 12)⅄

* A maximum of 3 credits in English as a second language (ESL) or English literacy development (ELD) may be counted towards the 4 compulsory credits in English, but the fourth must be a credit earned for a Grade 12 compulsory English course

** In groups 1, 2, and 3, a maximum of 2 credits in French as a second language can count as compulsory credits, 1 from group 1 and 1 from *either* group 2 or group 3.

*** A maximum of 2 credits in cooperative education can count as compulsory credits ⅄ The 12 optional credits may include up to 4 credits earned through approved dual credit courses.

Ontario Secondary School Certificate OSSC

The Ontario Secondary School Certificate (OSSC) will be granted, on request, to students who are leaving secondary school upon reaching the age of eighteen without having met the requirements for the Ontario Secondary School Diploma. To be granted an OSSC, a student must have earned a minimum of 14 credits, distributed as follows:

7 required compulsory credits: 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

7 required optional credit: 7 credits selected by the student from available courses.

Community Involvement Activities

As part of the diploma requirements, students must complete a minimum of forty hours of community involvement activities. These activities may be completed at any time during their years in the secondary school program.

Acceptable activities include (but are not limited to): providing a service to seniors; assisting a neighbour with child care; tutoring younger students; help organize local community events; volunteer in a leadership role with community groups; volunteer in hospitals or libraries; and volunteer with social service agencies.

The Provincial Secondary School Literacy Graduation Requirement

All students who enter grade 9 in the 1999-2000 school year or in subsequent years must successfully complete the provincial secondary school literacy test in order to earn a secondary school diploma. Students will normally take the literacy test when they are in grade 10. The test will be based on the Ontario curriculum expectations for language and communication-particularly reading and writing-up to and including grade 9. Students who have been eligible to write the OSSLT at least twice and who have been unsuccessful at least once are eligible to take the course. The principal may allow a student to enroll in the OSSLC before he or she has had a second opportunity to take the OSSLT, if the

principal determines that it is in the best educational interests of the student.

*Further information with regards to the earning of credits and working towards the OSSD i.e. waiving pre-requisites, granting substitutions, etc. is available on the Ministry of Education's website at http://www.edu.gov.on.ca

Credits

1. A credit is a means of recognition of the successful completion of a course that has been scheduled for a minimum of 110 hours. Credits are granted by a principal on behalf of the Minister of Education and Training for courses that have been developed or approved by the Ministry.
2. The course code consists of a course title and a five or six character code; the first 5 characters are designated by the Ministry of Education. The first character represents the subject area, as follows
   - A Arts
   - B Business
   - C Canadian and World Studies
   - E English
   - F French
   - G Guidance and Career Education
   - H Humanities and the Social Sciences
   - I Computer Studies or Interdisciplinary Studies
   - L Classical and International Languages
   - M Mathematics
   - N Native Studies
   - P Health and Physical Education
   - S Science
   - T Technological Studies

   The next two characters determine the subject within the subject area. For example: MCR represents Functions, while MDM represents Mathematics of Data Management.

   The fourth character is either a number or letter corresponding to the grade or level of the course. For example, 3 corresponds to a grade 11 course and B corresponds to a level 2 international language course.

   The fifth character indicates the type of the course with regards to the level of difficulty, as follows
   - D Academic
   - P Applied
   - O Open
   - U University Preparation
   - M University/College Preparation
   - C College Preparation
   - E Workplace Preparation

   The 6th character is normally not used at City Academy.
3. At City Academy we discourage substitutions for compulsory courses and waiving prerequisite requirements. However, it is acknowledged that in special circumstances every effort will be made to accommodate individual student needs.

The Ontario Student Record and the Ontario Student Transcript

1. The **Ontario Student Record (OSR)** for every student in the school is securely stored in the school Guidance Office. As outlined in the Ontario Student Record (OSR) Guidelines parents and students have the right to access this OSR. In order to view the OSR parents and/or students must make a written request to the principal.
2. **Student Transcripts (OST)** will be a cumulative and continuous record of a student's successful completion of grade 9 and 10 courses, successful and unsuccessful attempts at completing grade 11 and 12 courses, and completion of other diploma requirements. At City Academy we provide an updated student transcript at the request of individual students and parents and at the end of each semester.

   As per the Ministry's policy on **full disclosure** any grade 11 or 12 course completed, dropped or failed will appear on a student transcript along with the mark earned in the program. Full disclosure will take effect five (5) instruction days following the issue of the mid-term Report Card.

School Organization

Scheduling the Student Programs

City Academy offers full credit courses. Because we are a small independent school, we offer great flexibility in scheduling in order to meet individual needs.

Code of Student Behaviour at City Academy

All students are expected to:

- respect themselves
- respect others
- respect property
- respect authority
- be prepared for class
- attend regularly
- be punctual
- be self directed

Availability of Courses of Study

All Courses of Study are available at the high school for the perusal of parents and/or guardians. The Courses of Study contain the objectives of each course, the core content and sequence, evaluation practices, textbook(s) and any other major learning materials to be used.

Attendance

Regular class attendance is vital to the process of learning. Students who habitually miss class will suffer in the evaluation process because their participation and achievement cannot be fully assessed.

Evaluation of Student Performance

Evaluation is not an end in itself; it is rather a part of the learning process for both the students and the teacher. Evaluation of student progress is made from the beginning of a program until the end of it. This continuous evaluation is designed to inform students of progress in their studies.

At the end of a unit or period of time, evaluation takes place in order to judge the student's achievement in relation to the stated objectives of the course.

Procedures for evaluating students are sufficiently varied to meet the requirements of different individuals and different courses.

Plagiarism Policy

Plagiarism is the act of taking and using, as one's own, the ideas, expressions, designs, inventions, writing etc. of another, whether done by direct quote or by paraphrasing. In written submissions this is a very serious offence which may result in an evaluation penalty. In all formal essays, documentation (*e.g.* citations/end notes and works cited/bibliography) must be present when the essay is submitted.

Calculator Policy

Students are required to use calculators in all the Mathematics and Science courses and are encouraged to use them in Business, Family Studies and Geography courses, tests and examinations. Each student should have his/her own calculator so that assignments requiring calculators can be done at home as well as in school. A graphing calculator will be required for some Mathematics courses.

Report Schedules

There will be two formal reports for each course. As well, a Progress Report will be given to each student after 20-25 hours of instruction. Constant and open communication amongst the student, the teacher and parents will be encouraged.

PLAR Equivalency

Students who are eligible for equivalency credits are those who transfer to Ontario secondary schools from non-inspected private schools or schools outside Ontario. The school will review each case individually.

Course Changes

City Academy's policy is to give students all of the information they require in order to make proper decisions with regard to course selection, which is completed at least three weeks prior to the start of a semester. A request for course change must be made in writing to the principal with parental support no later than two days following the start of the semester. On the third day of the semester a change may not be possible because of the intensity of the school's course delivery. However in rare cases where change is absolutely necessary the principal will consider a request.

Semester Options

Day School

4 Semesters:	1A (September – November)
	1B (November – January)
	2A (February – April)
	2B (April – June)

A maximum of two credits per semester is strongly advised

Monday – Friday	
Period 1	8:30 – 11:00
Period 2	11:15 – 1:45
Period 3	2:00 – 4:30

Student Services

Most students entering City Academy are university bound. The school offers information, guidance and support for post secondary education. The completion of application forms to various universities and colleges is provided. The school is visited in September, October and November by representatives of prominent Canadian universities.

Staff support is offered to assist students in identifying meaningful placements for community service hours. Where appropriate staff will coordinate group community service activities.

To encourage and support independent learning, City Academy utilizes a computer lab equipped with Internet access and the services offered by local Public Libraries. Students may also use laptop computers. The school also utilizes a fully equipped science lab.

Course Descriptions
(Grades 9–12)

"THE COURSES OFFERED BY THIS SCHOOL HAVE BEEN DEVELOPED ACCORDING TO THE REQUIREMENTS OF THE ONTARIO MINISTRY OF EDUCATION."

Grades 9-12

ACADEMIC COURSES, APPLIED COURSES AND OPEN COURSES

In grades 9 and 10, three types of courses will be offered: academic courses, applied courses, and open courses.
Academic courses focus on the essential concepts of the discipline and also explore related concepts. Applied courses also focus on the essential concepts of the discipline, but develop students' knowledge and skills by emphasizing practical, concrete applications of these concepts and incorporating theoretical applications as appropriate. Open courses, offered in all secondary school grades, are designed to prepare students for further study in certain subjects and to enrich their education generally. Like the other types of courses, open courses are credit - based and are counted towards the thirty credits required to meet diploma requirements.

In grades 11 and 12, courses will focus more on a student's individual interests, preparing him/her for post-secondary goals.
The four destination-related types of courses are: university preparation courses, university/college preparation courses, college preparation courses and workplace preparation courses.

- At City Academy, most courses are offered at the university or university/college level.
- Open courses, appropriate for all students, and transfer courses that facilitate movement from one type of course to another, will also be offered.

GRADES 9-12: COURSE DESCRIPTIONS

Arts

Music Courses

Music & Computers
(Gr. 12 University/College Preparation)
AMM4M
Students learn techniques to create music recordings, with a focus on each stage of the process in a studio project. Classes will instruct students on how to record analog or electronic sound sources with the industry standard recording software. Lessons will address the science and nature of sound and how to capture analog signals as a digital picture. In addition, core elements of music theory, such as notation, scales, chords and rhythm will be taught. Topics to be explored include: studio protocol and concepts, microphone applications including dynamic and condenser microphones, amplifiers and outboard gear, sound processing including compressors and modulation effects, and advanced mixing/mastering techniques.

Visual Arts Courses

Visual Arts
(Gr. 9 Open)
AVI1O
This course is exploratory in nature, offering an overview of visual arts as a foundation for further study. Students will become familiar with the elements and principles of design and the expressive qualities of various materials by using a range of media, processes, techniques, and styles. Students will use the creative and critical analysis processes and will interpret art within a personal, contemporary, and historical context.
Prerequisite: None

Visual Arts
(Gr. 10 Open)
AVI2O
This course enables students to develop their skills in producing and presenting art by introducing them to new ideas, materials, and processes for artistic exploration and experimentation. Students will apply the elements and principles of design when exploring the creative process. Students will use the critical analysis process to reflect on and interpret art within a personal, contemporary, and historical context.
Prerequisite: None

Visual Arts
(Gr. 11 University/College Preparation)
AVI3M
This course enables students to further develop their knowledge and skills in visual arts. Students will use the creative process to explore a wide range of themes through studio work that may include drawing, painting, sculpting, and printmaking, as well as the creation of collage, multimedia works, and works using emerging technologies. Students will use the critical analysis process when evaluating their own work and the work of others. The course may be delivered as a comprehensive program or through a program focused on a particular art form (e.g., photography, video, computer graphics, information design).
Prerequisite: Visual Arts, Grade 9 or 10, Open

Media Arts
(Gr. 11 Open)
ASM3O
This course enables students to create media art works using available and emerging technologies such as computer animation, digital imaging, and video, and a variety of media. Students will explore the elements and principles of media arts, the connections between contemporary media art works and traditional art forms, and the importance of using responsible practices when engaged in the creative process. Students will develop the skills necessary to create and interpret media art works.
Prerequisite: None

Visual Arts
(Gr. 12 University/College Preparation)
AVI4M
This course focuses on enabling students to refine their use of the creative process when creating and presenting two- and three-dimensional art works using a variety of traditional and emerging media and technologies. Students will use the critical analysis process to deconstruct art works and explore connections between art and society. The studio program enables students to explore a range of materials, processes, and techniques that can be applied in their own art production. Students will also make connections between various works of art in personal, contemporary, historical, and cultural contexts.
Prerequisite: Visual Arts, Grade 11, University/College Preparation

Other Courses Offered Under the Visual Arts Guidelines

Drawing & Painting (AWM4M)
Photography (AWQ3M/4M)
Film/Video (AWR4M)
Building a Portfolio (AWL4M)
Art History (AWU4M)
Portraiture (AWT4M)
Fashion Design (AWI4M)
Art in the City (AWG4M)

Business Studies

Introduction to Business
(Grades 9 or 10 Open)
BBI10 or BBI20
This course introduces students to the world of business. Students will develop an understanding of the functions of business, including accounting, marketing, information and communication technology, human resources, and production, and of the importance of ethics and social responsibility. This course builds a foundation for further studies in business and helps students develop the business knowledge and skills they will need in their everyday lives.
Prerequisite: None

Accounting Courses

Financial Accounting Fundamentals
(Gr. 11 University/College Preparation)
BAF3M
This course introduces students to the fundamental principles and procedures of accounting. Students will develop financial analysis and decision-making skills that will assist them in future studies and/or career opportunities in business. Students will acquire an understanding of accounting for a service and a merchandising business, computerized accounting, financial analysis, and ethics and current issues in accounting.
Prerequisite**:** None

Financial Accounting Principles
(Gr. 12 University/College Preparation)
BAT4M
This course introduces students to advanced accounting principles that will prepare them for postsecondary studies in business. Students will learn about financial statements for various forms of business ownership and how those statements are interpreted in making business decisions. This course expands students' knowledge of sources of financing, further develops accounting methods for assets, and introduces accounting for partnerships and corporations.
Prerequisite**:** Financial Accounting Fundamentals, Grade 11, University/College Preparation

Entrepreneurial Studies Courses

Entrepreneurship: The Venture
(Gr. 11 College Preparation)
BDI3C
This course focuses on ways in which entrepreneurs recognize opportunities, generate ideas, and organize resources to plan successful ventures that enable them to achieve their goals. Students will create a venture plan for a school-based or student-run business. Through hands-on experiences, students will have opportunities to develop the values, traits, and skills most often associated with successful entrepreneurs.
Prerequisite**:** None

Marketing Courses

Marketing: Goods, Services, Events
(Gr. 11 College Preparation)
BMI3C
This course introduces the fundamental concepts of product marketing, which includes the marketing of goods, services, and events. Students will examine how trends, issues, global economic changes, and information technology influence consumer buying habits. Students will engage in marketing research, develop marketing strategies, and produce a marketing plan for a product of their choice.
Prerequisite**:** None

International Business Courses

International Business Fundamentals
(Gr. 12 University/College Preparation)
BBB4M
This course provides an overview of the importance of international business and trade in the global economy and explores the factors that influence success in international markets. Students will learn about the techniques and strategies associated with marketing, distribution, and managing international business effectively. This course prepares students for postsecondary programs in business, including international business, marketing, and management.
Prerequisite**:** None

Organizational Studies Courses

Business Leadership: Management Fundamentals
(Gr. 12 University/College Preparation)
BOH4M
This course focuses on the development of leadership skills used in managing a successful business. Students will analyse the role of a leader in business, with a focus on decision making, management of group dynamics, workplace stress and conflict, motivation of employees, and planning. Effective business communication skills, ethics, and social responsibility are also emphasized.
Prerequisite**:** None

Canadian and World Studies

Civics Courses

Civics
(Gr. 10 Open)
CHV2O
This course explores what it means to be an informed, participating citizen in a democratic society. Students will learn about the elements of democracy in local, national, and global contexts, about political reactions to social change, and about political decision-making processes in Canada. They will explore their own and others' ideas about civics questions and learn how to think critically about public issues and react responsibly to them.
Prerequisite: None

Economics Courses

The Individual and the Economy
(Gr. 11 University/College Preparation)
CIE3M
This course examines the changing Canadian economy and helps students develop an understanding of their own role as economic agents. Students will apply economic models and concepts to assess the roles of the various stakeholders in the Canadian economy and analyse the interactions among them. Students will consider the economic behaviour of the individual as consumer, contributor, and citizen in a mixed economy and will apply economic inquiry, critical-thinking, and communication skills to make and defend informed economic decisions.
Prerequisite: Canadian History since World War I, Grade 10, Academic or Applied

Analyzing Current Economic Issues
(Gr. 12 University Preparation)
CIA4U
This course investigates the nature of the competitive global economy and explores how individuals and societies can gain the information they need to make appropriate economic decisions. Students will learn about the principles of micro- and macroeconomics, apply economic models and concepts to interpret economic information, assess the validity of statistics, and investigate marketplace dynamics. Students will use economic inquiry and communication skills to analyse current economic issues, make informed judgments, and present their findings.
Prerequisite: Any university or university/college preparation course in Canadian and world studies, English, or social sciences and humanities

Geography Courses

Geography of Canada
(Gr. 9 Academic)
CGC1D
This course explores Canada's distinct and changing character and the geographic systems and relationships that shape it. Students will investigate the interactions of natural and human systems within Canada, as well as Canada's economic, cultural, and environmental connections to other countries. Students will use a variety of geotechnologies and inquiry and communication methods to analyse and evaluate geographic issues and present their findings.
Prerequisite: None

The America's: Geographic Patterns & Issues
(Gr. 11 University/College Preparation)
CGD3M
This course investigates the geographic systems and patterns of the Americas, focusing on questions arising from the growing interdependence of the countries in the region. Students will examine diverse environmental, economic, and cultural factors influencing the different countries and their peoples, and the interactions among them. Students will use a variety of geotechnologies and inquiry and communication methods to investigate trends and issues and communicate their findings.
Prerequisite: Geography of Canada, Grade 9, Academic or Applied

Physical Geography: Patterns, Processes, and Interactions
(Gr. 11 University/College Preparation)
CGF3M
This course examines the major patterns of physical geography and the powerful forces that affect them. Students will investigate the dynamic nature of the earth, the evolving relationship between the planet and its people, and the factors that limit our ability to predict the changes that will occur. Students will use a wide range of geotechnologies and inquiry methods to investigate the distribution and interaction of the elements of their physical environment and to communicate their findings.
Prerequisite: Geography of Canada, Grade 9, Academic or Applied

Canadian and World Issues: A Geographic Analysis
(Gr. 12 University Preparation)
CGW4U
This course examines the global challenges of creating a sustainable and equitable future, focusing on current issues that illustrate these challenges. Students will investigate a range of topics, including cultural, economic, and geopolitical relationships, regional disparities in the ability to meet basic human needs, and protection of the natural environment. Students will use geotechnologies and skills of geographic inquiry and analysis to develop and communicate balanced opinions about the complex issues facing Canada and a world that is interdependent and constantly changing.
Prerequisite: Any university or university/college preparation course in Canadian and world studies, English, or social sciences and humanities

The Environment and Resource Management
(Gr. 12 University/College Preparation)
CGR4M
This course investigates the complexity and fragility of ecosystems and the pressures human activities place on them. Students will examine ecological processes, the principles of sustainability, and strategies for resource management, with a focus on the challenges of environmental degradation and resource depletion. Students will use geotechnologies and skills of geographic inquiry to explain and evaluate various approaches to achieving a more sustainable relationship between people and their environment.
Prerequisite: Any university, university/college, or college preparation course in Canadian and world studies, English, or social sciences and humanities

History Courses

Canadian History since World War 1
(Gr. 10 Academic)
CHC2D
This course explores the local, national, and global forces that have shaped Canada's national identity from World War I to the present. Students will investigate the challenges presented by economic, social, and technological changes and explore the contributions of individuals and groups to Canadian culture and society during this period. Students will use critical-thinking and communication skills to evaluate various interpretations of the issues and events of the period and to present their own points of view.
Prerequisite: None

American History
(Gr. 11 University Preparation)
CHA3U
This course traces the social, economic, and political development of the United States from colonial times to the present. Students will examine issues of diversity, identity, and culture that have influenced the country's social and political formation and will consider the implications of its expansion into a global superpower. Students will use critical-thinking and communication skills to determine causal relationships, evaluate multiple perspectives, and present their own points of view.
Prerequisite: Canadian History in the Twentieth Century, Grade 10, Academic or Applied

World History to the Sixteenth Century
(Gr. 11 University/College Preparation)
CHW3M
This course investigates the history of humanity from earliest times to the sixteenth century. Students will analyse diverse societies from around the world, with an emphasis on the political, cultural, and economic structures and historical forces that have shaped the modern world. They will apply historical inquiry, critical-thinking, and communication skills to evaluate the influence of selected individuals, groups, and innovations and to present their own conclusions.
Prerequisite: Canadian History in the Twentieth Century, Grade 10, Academic or Applied

Canada: History, Identity, and Culture
(Gr. 12 University Preparation)
CHI4U
This course explores the challenges associated with the formation of a Canadian national identity. Students will examine the social, political, and economic forces that have shaped Canada from the pre-contact period to the present and will investigate the historical roots of contemporary issues from a variety of perspectives. Students will use critical-thinking and communication skills to consider events and ideas in historical context, debate issues of culture and identity, and present their own views.
Prerequisite: Any university or university/college preparation course in Canadian and world studies, English, or social sciences and humanities

World History: The West and the World
(Gr. 12 University Preparation)
CHY4U
This course investigates the major trends in Western civilization and world history from the sixteenth century to the present. Students will learn about the interaction between the emerging West and other regions of the world and about the development of modern social, political, and economic systems. They will use critical-thinking and communication skills to investigate the historical roots of contemporary issues and present their conclusions.
Prerequisite: Any university or university/college preparation course in Canadian and world studies, English, or social sciences and humanities

Law Courses

Understanding Canadian Law
(Gr. 11 University/College Preparation)
CLU3M
This course explores legal issues that directly affect students' lives. Students will acquire a practical knowledge of Canada's legal system and learn how to analyse legal issues. They will also be given opportunities to develop informed opinions on legal issues and to defend those opinions and communicate legal knowledge in a variety of ways and settings, including legal research projects, mock trials, and debates.
Prerequisite: Canadian History in the Twentieth Century, Gr. 10, Academic/Applied

Canadian and International Law
(Gr. 12 University Preparation)
CLN4U
This course examines elements of Canadian and international law in social, political, and global contexts. Students will study the historical and philosophical sources of law and the principles and practices of international law and will learn to relate them to issues in Canadian society and the wider world. Students will use critical-thinking and communication skills to analyse legal issues, conduct independent research, and present the results of their inquiries in a variety of ways.
Prerequisite: Any university or university/college preparation course in Canadian and world studies, English, or social sciences and humanities

Politics Courses

Canadian and World Politics
(Gr. 12 University Preparation)
CPW4U
This course examines Canadian and world politics from a variety of perspectives. Students will investigate the ways in which individuals, groups, and states work to influence domestic and world events, the role of political ideologies in national and international politics, and the dynamics of international cooperation and conflict resolution. Students will apply critical-thinking and communication skills to develop and support informed opinions about current political conflicts, events, and issues.
Prerequisite: Any university or university/college preparation course in Canadian and world studies, English, or social sciences and humanities

Classical Studies

Classical Studies Courses

Classical Civilization
(Gr. 12 University Preparation)
LVV4U
This course allows students to explore the beliefs and achievements of the classical world, which have shaped Western thought and civilization. Students will investigate such aspects of classical culture as its mythology, art, literature, and philosophy, as well as elements of ancient Greek and Latin, through a variety of activities such as dramatizations, audio-visual presentations, and discussions. By reading classical authors in English and examining archaeological evidence, students will enhance both their communication skills and their ability to think critically and creatively.
Prerequisite: English, Grade 10, Academic or Applied

International Language Courses

International Languages,
(Level 1, Academic)
LBAAD – LYXAD
This course is designed to enable students to begin to communicate with native speakers of the language of study. Students will use simple language and read age- and language-appropriate passages for various purposes. They will explore aspects of the culture of countries where the language under study is spoken, including social customs and the arts, by participating in cultural events and activities involving both print and technological resources.
Prerequisite: None

International Languages
(Level 2, Academic)
LBABD – LYXBD
This course provides students with the language learning experiences that will enable them to communicate in the language of study. Students will continue to develop and apply their speaking skills in a variety of contexts, and will participate in activities that will improve their reading comprehension and writing skills. They will also continue to explore aspects of the culture of countries where the language under study is spoken by taking part in community-sponsored events and activities involving both print and technological resources. Although students will continue to expand their vocabulary and repertoire of language structures, the language they will use at this level will still be simple.
Prerequisite: Prerequisites will be determined by school boards, depending on the structure of their international language program

International Languages
(Level 3, University)
LBACU – LYXCU
This course offers students opportunities to further develop their knowledge of the international language and to enhance their communication skills. Students will use increasingly sophisticated language in a variety of activities that will enable them to speak and write with clarity and accuracy. Students will also enhance their thinking skills through the critical study of literature, and continue to explore aspects of the culture of countries where the language is spoken through a variety of print and technological resources.
Prerequisite: International Languages, Level 2, Academic

International Languages
(Level 4, University)
LBADU – LYXDU
This course prepares students for university studies in the international language. Students will enhance their ability to use the language with clarity and precision, and will develop language skills needed to engage in sustained conversations and discussions, understand and evaluate information, read diverse materials for both study and pleasure, and write clearly and effectively. Students will also have opportunities to add to their knowledge of the culture of countries where the language is spoken through the use of community resources and computer technology.
Prerequisite: International Languages, Level 3, University Preparation

Computer Studies

Introduction to Computer Studies
(Gr. 10 Open)
ICS2O
This course introduces students to computer programming. Students will plan and write simple computer programs by applying fundamental programming concepts, and learn to create clear and maintainable internal documentation. They will also learn to manage a computer by studying hardware configurations, software selection, operating system functions, networking, and safe computing practices. Students will also investigate the social impact of computer technologies, and develop an understanding of environmental and ethical issues related to the use of computers.
Prerequisite: **None**

Introduction to Computer Science
(Gr. 11 University Preparation)
ICS3U
This course introduces students to computer science. Students will design software independently and as part of a team, using industry-standard programming tools and applying the software development life-cycle model. They will also write and use subprograms within computer programs. Students will develop creative solutions for various types of problems as their understanding of the computing environment grows. They will also explore environmental and ergonomic issues, emerging research in computer science, and global career trends in computer-related fields.
Prerequisite: None

Computer Science
(Gr. 12 University Preparation)
ICS4U
This course enables students to further develop knowledge and skills in computer science. Students will use modular design principles to create complex and fully documented programs, according to industry standards. Student teams will manage a large software development project, from planning through to project review. Students will also analyse algorithms for effectiveness. They will investigate ethical issues in computing and further explore environmental issues, emerging technologies, areas of research in computer science, and careers in the field.
Prerequisite: Introduction to Computer Science, Grade 11, University Preparation

English

English
(Gr. 9 Academic)
ENG1D
This course is designed to develop the oral communication, reading, writing, and media literacy skills that students need for success in their secondary school academic programs and in their daily lives. Students will analyse literary texts from contemporary and historical periods, interpret informational and graphic texts, and create oral, written, and media texts in a variety of forms. An important focus will be on the use of strategies that contribute to effective communication. The course is intended to prepare students for the Grade 10 academic English course, which leads to university or college preparation courses in Grades 11 and 12.
Prerequisite: None

English
(Gr. 10 Academic)
ENG2D
This course is designed to extend the range of oral communication, reading, writing, and media literacy skills that students need for success in their secondary school academic programs and in their daily lives. Students will analyse literary texts from contemporary and historical periods, interpret and evaluate informational and graphic texts, and create oral, written, and media texts in a variety of forms. An important focus will be on the selective use of strategies that contribute to effective communication. This course is intended to prepare students for the compulsory Grade 11 university or college preparation course.
Prerequisite: English, Grade 9, Academic or Applied

English
(Gr. 11 University Preparation)
ENG3U
This course emphasizes the development of literacy, communication, and critical and creative thinking skills necessary for success in academic and daily life. Students will analyse challenging literary texts from various periods, countries, and cultures, as well as a range of informational and graphic texts, and create oral, written, and media texts in a variety of forms. An important focus will be on using language with precision and clarity and incorporating stylistic devices appropriately and effectively. The course is intended to prepare students for the compulsory Grade 12 university or college preparation course.
Prerequisite: English, Grade 10, Academic

English
(Gr. 12 University Preparation)
ENG4U
This course emphasizes the consolidation of the literacy, communication, and critical and creative thinking skills necessary for success in academic and daily life. Students will analyse a range of challenging literary texts from various periods, countries, and cultures; interpret and evaluate informational and graphic texts; and create oral, written, and media texts in a variety of forms. An important focus will be on using academic language coherently and confidently, selecting the reading strategies best suited to particular texts and particular purposes for reading, and developing greater control in writing. The course is intended to prepare students for university, college, or the workplace.
Prerequisite: English, Grade 11, University Preparation

Canadian Literature
(Gr. 11 University/College Preparation)
ETC3M
This course emphasizes the study and analysis of literary texts by Canadian authors for students with a special interest in Canadian literature. Students will study the themes, forms, and stylistic elements of a variety of literary texts representative of various time periods and of the diverse cultures and regions of Canada, and will respond personally, critically, and creatively to them.
Prerequisite: English, Grade 10, Academic or Applied

Media Studies
(Gr. 11 Open)
EMS3O
This course emphasizes knowledge and skills that will enable students to understand media communication in the twenty-first century and to use media effectively and responsibly. Through analyzing the 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.
Prerequisite: English, Grade 10, Academic or Applied

Studies in Literature
(Gr. 12 University Preparation)
ETS4U
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.
Prerequisite: English, Grade 11, University Preparation.

The Writer's Craft
(Gr. 12 University Preparation)
EWC4U
This course emphasizes knowledge and skills related to the craft of writing. Students will analyse models of effective writing; use a workshop approach to produce a range of works; identify and use techniques required for specialized forms of writing; and identify effective ways to improve the quality of their writing. They will also complete a major paper as part of a creative or analytical independent study project and investigate opportunities for publication and for writing careers.
Prerequisite: English, Grade 11, University Preparation

French as a Second Language

Core French
(Gr. 9 Academic)
FSF1D
This course emphasizes the further development of oral communication, reading, and writing skills. Students will build on and apply their knowledge of French while exploring a variety of themes, such as relationships, trends and careers. Thematic readings, which include a selection of short stories, articles, and poems, will serve as stepping stones to oral and written activities.
Prerequisite: Minimum of 600 hours of French instruction, or equivalent

Core French
(Gr. 10 Academic)
FSF2D
This course enables students to increase their knowledge of the French language, further develop their language skills, and deepen their understanding and appreciation of francophone culture around the world. Exploring a variety of themes, students will develop and apply critical thinking skills in discussion, in their analysis and interpretation of texts, and in their own writing.
Prerequisite: Core French, Grade 9, Academic or Applied

Core French
(Gr. 11 University Preparation)
FSF3U
This course draws on a variety of themes to promote extensive development of reading and writing skills and to reinforce oral communication skills. Students will gain a greater understanding of French-speaking cultures in Canada and around the world through their reading of a variety of materials, including a short novel or a play. Students will produce various written assignments, including a formal essay. The use of correct grammar and appropriate language conventions in both spoken and written French will be emphasized throughout the course.
Prerequisite: Core French, Grade 10, Academic

Core French
(Gr. 12 University Preparation)
FSF4U
This course draws on a variety of themes to promote extensive development of French-language skills. Students will consolidate their oral skills as they discuss literature, culture, and current issues. They will read a variety of texts and will write a formal essay. The use of correct grammar and appropriate language conventions in both spoken and written French will be emphasized throughout the course.
Prerequisite: Core French, Grade 11, University Preparation

Guidance and Career Education

Learning Strategies 1
(Gr. 9/10 Open)
GLS1O, GLE1O, GLE2O
This course focuses on learning strategies to help students become better, more independent learners. Students will learn how to develop and apply literacy and numeracy skills, personal-management skills, and interpersonal and teamwork skills to improve their learning and achievement in school, the workplace, and the community. The course helps students build confidence and motivation to pursue opportunities for success in secondary school and beyond.
Prerequisite**:** None

Career Studies
(Gr. 10 Open)
GLC2O
This course teaches students how to develop and achieve personal goals for future learning, work, and community involvement. Students will assess their interests, skills, and characteristics and investigate current economic and workplace trends, work opportunities, and ways to search for work. The course explores postsecondary learning and career options, prepares students for managing work and life transitions, and helps students focus on their goals through the development of a career plan.
Prerequisite**:** None

Designing Your Future
(Gr. 11 Open)
GWL3O
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.

Leadership & Peer Support
(Gr. 11 Open)
GPP3O
This course prepares students to act in leadership and peer support roles. They will design and implement a plan for contributing to their school and/or community; develop skills in communication, interpersonal relations, teamwork, and conflict management; and apply those skills in leadership and/or peer support roles – for example, as a student council member or a peer tutor. Students will examine group dynamics and learn the value of diversity within groups and communities.
Prerequisite**:** None

Advanced Learning Strategies
(Grade 11/12, Open)
GLS4O/GLE4O/GLE3O
This course improves students' learning and personal-management skills, preparing them to make successful transitions to work, training, and/or postsecondary education destinations. Students will assess their learning abilities and use literacy, numeracy, and research skills and personal-management techniques to maximize their learning. Students will investigate trends and resources to support their postsecondary employment, training, and/or education choices and develop a plan to help them meet their learning and career goals.
Prerequisite**:** None

Health and Physical Education

Exercise Science
(Gr. 12 University Preparation)
PSE4U
This course focuses on the study of human movement and of systems, factors, and principles involved in human development. Students will learn about the effects of physical activity on health and performance, the evolution of physical activity and sports, and the factors that influence an individual's participation in physical activity. The course prepares students for university programs in physical education, kinesiology, recreation, and sports administration.
Prerequisite: Any Grade 11 university or university/college preparation course in science, or any Grade 11 or 12 open course in health and physical education

Mathematics

Principles of Mathematics
(Gr. 9 Academic)
MPM1D
This course enables students to develop 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 multistep problems.
Prerequisite: None

Foundations of Mathematics
(Gr. 9 Applied)
MFM1P
This course enables students to develop an understanding of mathematical concepts related to introductory algebra, proportional reasoning, and measurement and geometry through investigation, the effective use of technology, and hands-on activities. Students will investigate real-life examples to develop various representations of linear relations, and will determine the connections between the representations. They will also explore certain relationships that emerge from the measurement of three-dimensional figures and two-dimensional shapes. Students will consolidate their mathematical skills as they solve problems and communicate their thinking.
Prerequisite: None

Mathematics Transfer Course
(Gr. 9 Applied to Academic)
MPM1H
This transfer course will provide students who have successfully completed Foundations of Mathematics, Grade 9, Applied with an opportunity to achieve the expectations not covered in that course but included in Principles of Mathematics, Grade 9, Academic.1 On successful completion of this transfer course, students may proceed to Principles of Mathematics, Grade 10, Academic (MPM2D).
This transfer course focuses on developing number sense and algebra, linear relations, analytic geometry, and measurement and geometry through investigation, the effective use of technology, and abstract reasoning. Students will reason mathematically and communicate their thinking as they solve multi-step problems.
Prerequisite**:** Foundations of Mathematics, Grade 9, Applied
Credit value**:** 0.5

Principles of Mathematics
(Gr. 10 Academic)
MPM2D
This course enables students to broaden their understanding of relationships and extend their problem-solving and algebraic skills through investigation, the effective use of technology, and abstract reasoning. Students will explore quadratic relations and their applications; solve and apply linear systems; verify properties of geometric figures using analytic geometry; and investigate the trigonometry of right and acute triangles. Students will reason mathematically and communicate their thinking as they solve multi-step problems.
Prerequisite: Mathematics, Grade 9, Academic

Foundations of Mathematics
(Gr. 10 Applied)
MFM2P
This course enables students to consolidate their understanding of linear relations and extend their problem-solving and algebraic skills through investigation, the effective use of technology, and hands-on activities. Students will develop and graph equations in analytic geometry; solve and apply linear systems, using real-life examples; and explore and interpret graphs of quadratic relations. Students will investigate similar triangles, the trigonometry of right triangles, and the measurement of three-dimensional figures. Students will consolidate their mathematical skills as they solve problems and communicate their thinking.
Prerequisite: Mathematics Grade 9, Academic or Applied

Functions
(Gr. 11 University Preparation)
MCR3U
This course introduces the mathematical concept of the function by extending students' experiences with linear and quadratic relations. Students will investigate properties of discrete and continuous functions, including trigonometric and exponential functions; represent functions numerically, algebraically, and graphically; solve problems involving applications of functions; investigate inverse functions; and develop facility in determining equivalent algebraic expressions. Students will reason mathematically and communicate their thinking as they solve multi-step problems.
Prerequisite**:** Principles of Mathematics, Grade 10, Academic

Functions and Applications
(Gr. 11 University/College Preparation)
MCF3M
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.
Prerequisite**:** Principles of Mathematics, Grade 10, Academic, or Foundations of Mathematics, Grade 10, Applied

Foundations for College Mathematics
(Gr. 11 College Preparation)
MBF3C
This course enables students to broaden their understanding of mathematics as a problem-solving tool in the real world. Students will extend their understanding of quadratic relations; investigate situations involving exponential growth; solve problems involving compound interest; solve financial problems connected with vehicle ownership; develop their ability to reason by collecting, analysing, and evaluating data involving one variable; connect probability and statistics; and solve problems in geometry and trigonometry. Students will consolidate their mathematical skills as they solve problems and communicate their thinking.
Prerequisite: Foundations of Mathematics, Grade 10, Applied

Mathematics for Work and Everyday Life
(Gr. 11 Workplace Preparation)
MEL3E
This course enables students to broaden their understanding of mathematics as it is applied in the workplace and daily life. Students will solve problems associated with earning money, paying taxes, and making purchases; apply calculations of simple and compound interest in saving, investing, and borrowing; and calculate the costs of transportation and travel in a variety of situations. Students will consolidate their mathematical skills as they solve problems and communicate their thinking.
Prerequisite: Principles of Mathematics, Grade 9, Academic, or Foundations of Mathematics, Grade 9, Applied, or a ministry-approved locally developed Grade 10 mathematics course

Advanced Functions
(Gr. 12 University Preparation)
MHF4U
This course extends students' experience with functions. Students will investigate the properties of polynomial, rational, logarithmic, and trigonometric functions; develop techniques for combining functions; broaden their understanding of rates of change; and develop facility in applying these concepts and skills. Students will also refine their use of the mathematical processes necessary for success in senior mathematics. This course is intended both for students taking the Calculus and Vectors course as a prerequisite for a university program and for those wishing to consolidate their understanding of mathematics before proceeding to any one of a variety of university programs.
Prerequisite: Functions, Grade 11, University Preparation, or Mathematics for College Technology, Grade 12, College Preparation

Calculus and Vectors
(Gr. 12 University Preparation)
MCV4U
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.
Note: The new Advanced Functions course (MHF4U) must be taken prior to or concurrently with Calculus and Vectors (MCV4U).

Mathematics of Data Management
(Gr. 12 University Preparation)
MDM4U
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; carry out a culminating investigation that integrates statistical concepts and skills. Students will also refine their use of the mathematical processes necessary for success in senior mathematics. Students planning to enter university programs in business, the social sciences, and the humanities will find this course of particular interest.
Prerequisite: Functions, Grade 11, University Preparation, or Functions and Applications, Grade 11, University/College Preparation

Foundations for College Mathematics
(Gr. 12 College Preparation)
MAP4C
This course enables students to broaden their understanding of real-world applications of mathematics. Students will analyse data using statistical methods; solve problems involving applications of geometry and trigonometry; solve financial problems connected with annuities, budgets, and renting or owning accommodation; simplify expressions and solve equations. Students will reason mathematically and communicate their thinking as they solve multi-step problems. This course prepares students for college programs in areas such as business, health sciences, and human services, and for certain skilled trades.
Prerequisite: Foundations for College Mathematics, Grade 11, College Preparation, or Functions and Applications, Grade 11, University/College Preparation

The Ontario Secondary School Literacy Course

Ontario Secondary School Literacy Course
(Gr. 12 Open)
OLC4O
This course is designed to help students acquire and demonstrate the cross-curricular literacy skills that are evaluated by the Ontario Secondary School Literacy Test (OSSLT). Students who complete the course successfully will meet the provincial literacy requirement for graduation. Students will read a variety of informational, narrative, and graphic texts and will produce a variety of forms of writing, including summaries, information paragraphs, opinion pieces, and news reports. Students will also maintain and manage a portfolio containing a record of their reading experiences and samples of their writing.
Eligibility requirement: Students who have been eligible to write the OSSLT at least twice and who have been unsuccessful at least once are eligible to take the course. (Students who have already met the literacy requirement for graduation may be eligible to take the course under special circumstances, at the discretion of the principal.)

Science

Science
(Gr. 9 Academic)
SNC1D
This course enables students to develop their understanding of basic concepts in biology, chemistry, earth and space science, and physics, and to relate science to technology, society, and the environment. Throughout the course, students will develop their skills in the processes of scientific investigation. Students will acquire an understanding of scientific theories and conduct investigations related to sustainable ecosystems; atomic and molecular structures and the properties of elements and compounds; the study of the universe and its properties and components; and the principles of electricity.
Prerequisite: None

Science
(Gr. 9 Applied)
SNC1P
This course enables students to develop their understanding of basic concepts in biology, chemistry, earth and space science, and physics, and to apply their knowledge of science to everyday situations. They are also given opportunities to develop practical skills related to scientific investigation. Students will plan and conduct investigations into practical problems and issues related to the impact of human activity on ecosystems; the structure and properties of elements and compounds; space exploration and the components of the universe; and static and current electricity.
Prerequisite**:** None

Science
(Gr. 10 Academic)
SNC2D
This course enables students to enhance their understanding of concepts in biology, chemistry, earth and space science, and physics, and of the interrelationships between science, technology, society, and the environment. Students are also given opportunities to further develop their scientific investigation skills. Students will plan and conduct investigations and develop their understanding of scientific theories related to the connections between cells and systems in animals and plants; chemical reactions, with a particular focus on acid–base reactions; forces that affect climate and climate change; and the interaction of light and matter.
Prerequisite: Science, Grade 9, Academic or Applied

Science
(Gr. 10 Applied)
SNC2P
This course enables students to develop a deeper understanding of concepts in biology, chemistry, earth and space science, and physics, and to apply their knowledge of science in real-world situations. Students are given opportunities to develop further practical skills in scientific investigation. Students will plan and conduct investigations into everyday problems and issues related to human cells and body systems; chemical reactions; factors affecting climate change; and the interaction of light and matter.
Prerequisite**:** Science, Grade 9, Academic or Applied

Biology Courses

Biology
(Gr. 11 University Preparation)
SBI3U
This course furthers students' understanding of the processes that occur in biological systems. Students will study theory and conduct investigations in the areas of biodiversity; evolution; genetic processes; the structure and function of animals; and the anatomy, growth, and function of plants. The course focuses on the theoretical aspects of the topics under study, and helps students refine skills related to scientific investigation.
Prerequisite: Science, Grade 10, Academic

Biology
(Gr. 11 College Preparation)
SBI3C
This course focuses on the processes that occur in biological systems. Students will learn concepts and theories as they conduct investigations in the areas of cellular biology, microbiology, genetics, the anatomy of mammals, and the structure of plants and their role in the natural environment. Emphasis will be placed on the practical application of concepts, and on the skills needed for further study in various branches of the life sciences and related fields.
Prerequisite**:** Science, Grade 10, Academic or Applied

Biology
(Gr. 12 University Preparation)
SBI4U
This course provides students with the opportunity for in-depth study of the concepts and processes that occur in biological systems. Students will study theory and conduct investigations in the areas of biochemistry, metabolic processes, molecular genetics, homeostasis, and population dynamics. Emphasis will be placed on the achievement of detailed knowledge and the refinement of skills needed for further study in various branches of the life sciences and related fields.
Prerequisite: Biology, Grade 11, University Preparation

Chemistry Courses

Chemistry
(Gr. 11 University Preparation)
SCH3U
This course enables students to deepen their understanding of chemistry through the study of the properties of chemicals and chemical bonds; chemical reactions and quantitative relationships in those reactions; solutions and solubility; and atmospheric chemistry and the behaviour of gases. Students will further develop their analytical skills and investigate the qualitative and quantitative properties of matter, as well as the impact of some common chemical reactions on society and the environment.
Prerequisite: Science, Grade 10, Academic

Chemistry
(Gr. 12 University Preparation)
SCH4U
This course enables students to deepen their understanding of chemistry through the study of organic chemistry, the structure and properties of matter, energy changes and rates of reaction, equilibrium in chemical systems, and electrochemistry. Students will further develop their problem-solving and investigation skills as they investigate chemical processes, and will refine their ability to communicate scientific information. Emphasis will be placed on the importance of chemistry in everyday life and on evaluating the impact of chemical technology on the environment.
Prerequisite: Chemistry, Grade 11, University Preparation

Chemistry
(Gr. 12 College Preparation)
SCH4C
This course enables students to develop an understanding of chemistry through the study of matter and qualitative analysis, organic chemistry, electrochemistry, chemical calculations, and chemistry as it relates to the quality of the environment. Students will use a variety of laboratory techniques, develop skills in data collection and scientific analysis, and communicate scientific information using appropriate terminology.
Emphasis will be placed on the role of chemistry in daily life and the effects of technological applications and processes on society and the environment.
Prerequisite**:** Science, Grade 10, Academic or Applied

Earth and Space Science Courses

Earth and Space Science
(Gr. 12 University Preparation)
SES4U
This course develops students' understanding of Earth and its place in the universe. Students will investigate the properties of and forces in the universe and solar system and analyse techniques scientists use to generate knowledge about them. Students will closely examine the materials of Earth, its internal and surficial processes, and its geological history, and will learn how Earth's systems interact and how they have changed over time. Throughout the course, students will learn how these forces, processes, and materials affect their daily lives. The course draws on biology, chemistry, physics, and mathematics in its consideration of geological and astronomical processes that can be observed directly or inferred from other evidence.
Prerequisite: Science, Grade 10, Academic

Environmental Science Courses

Environmental Science
(Gr. 11 University/College Preparation)
SVN3M
This course provides students with the fundamental knowledge of and skills relating to environmental science that will help them succeed in life after secondary school. Students will explore a range of topics, including the role of science in addressing contemporary environmental challenges; the impact of the environment on human health; sustainable agriculture and forestry; the reduction and management of waste; and the conservation of energy. Students will increase their scientific and environmental literacy and examine the interrelationships between science, the environment, and society in a variety of areas.
Prerequisite: Science, Grade 10, Academic or Applied

Physics Courses

Physics
(Gr. 11 University Preparation)
SPH3U
This course develops students' understanding of the basic concepts of physics. Students will explore kinematics, with an emphasis on linear motion; different kinds of forces; energy transformations; the properties of mechanical waves and sound; and electricity and magnetism. They will enhance their scientific investigation skills as they test laws of physics. In addition, they will analyse the interrelationships between physics and technology, and consider the impact of technological applications of physics on society and the environment.
Prerequisite: Science, Grade 10, Academic

Physics
(Gr. 12 University Preparation)
SPH4U
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.
Prerequisite: Physics, Grade 11, University Preparation

Physics
(Gr. 12 College Preparation)
SPH4C
This course develops students' understanding of the basic concepts of physics. Students will explore these concepts with respect to motion; mechanical, electrical, electromagnetic, energy transformation, hydraulic, and pneumatic systems; and the operation of commonly used tools and machines. They will develop their scientific investigation skills as they test laws of physics and solve both assigned problems and those emerging from their investigations. Students will also consider the impact of technological applications of physics on society and the environment.
Prerequisite: Science, Grade 10, Academic or Applied

Science Courses

Science
(Gr. 12 University/College Preparation)
SNC4M
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
Prerequisite: Science, Grade 10, Academic, or any Grade 11 university, university/college or college preparation course in science

Social Sciences and Humanities

Family Studies Courses

Food and Nutrition
(Gr. 9 or 10 Open)
HFN1O/HFN2O
This course explores the factors that affect attitudes and decisions about food, examines current issues of body image and food marketing, and is grounded in the scientific study of nutrition. Students will learn how to make informed food choices and how to prepare foods, and will investigate our Canadian food heritage and food industries, as well as global food issues. The course also introduces students to research skills related to food and nutrition.
Prerequisite: None

Food and Nutrition Sciences
(Gr. 12 University/College Preparation)
HFA4M
This course examines various nutritional, psychological, social, cultural, and global factors that influence people's food choices and customs. Students will learn about current Canadian and worldwide issues related to food, frameworks for marking appropriate dietary choices, and food-preparation techniques. This course also refines students' skills used in researching and investigating issues related to food and nutrition.
Prerequisite: Any university, university/college, or college preparation course in social sciences and humanities, English, or Canadian and world studies

Individuals and Families in a Diverse Society
(Gr. 12 University/College Preparation)
HHS4M
This course applies current theories and research from the disciplines of anthropology, psychology, and sociology to the study of individual development, family behaviour, intimate and parent–child relationships, and the ways in which families interact within the diverse Canadian society. Students will learn the interpersonal skills required to contribute to the well-being of families, and the investigative skills required to conduct and evaluate research about individuals and families.
Prerequisite: Any university, university/college, or college preparation course in social sciences and humanities, English, or Canadian and world studies

Issues in Human Growth and Development
(Gr. 12 University/College Preparation)
HHG4M
This course offers a multidisciplinary approach to the study of human development throughout the life cycle, with particular emphasis on enhancing growth and development. Students will examine how early brain and child development are linked to lifelong learning, health, and well-being, and will develop child-care and human-relationship skills through practical experience in a community setting. This course also refines students' skills used in researching and investigating issues related to human growth and development.
Prerequisite: Any university, university/college, or college preparation course in social sciences and humanities, English, or Canadian and world studies

General Social Science Courses

Introduction to Anthropology, Psychology, and Sociology
(Gr. 11 University/College Preparation)
HSP3M
This course introduces the theories, questions, and issues that are the major concerns of anthropology, psychology, and sociology. Students will develop an understanding of the way social scientists approach the topics they study and the research methods they employ. Students will be given opportunities to explore theories from a variety of perspectives and to become familiar with current thinking on a range of issues that have captured the interest of classical and contemporary social scientists in the three disciplines.
Prerequisite: None

Challenge and Change in Society
(Gr. 12 University/College Preparation)
HSB4M
This course examines the theories and methodologies used in anthropology, psychology, and sociology to investigate and explain shifts in knowledge, attitudes, beliefs, and behaviour and their impact on society. Students will analyse cultural, social, and biological patterns in human societies, looking at the ways in which those patterns change over time. Students will also explore the ideas of classical and contemporary social theorists, and will apply those ideas to the analysis of contemporary trends.
Prerequisite: Any university, university/college, or college preparation course in social sciences and humanities, English, or Canadian and world studies

Philosophy Courses

Philosophy: Questions and Theories
(Gr. 12 University Preparation)
HZT4U
This course addresses three (or more) of the main areas of philosophy: metaphysics, logic, epistemology, ethics, social and political philosophy, and aesthetics. Students will learn critical-thinking skills, the main ideas expressed by philosophers from a variety of the world's traditions, how to develop and explain their own philosophical ideas, and how to apply those ideas to contemporary social issues and personal experiences. The course will also help students refine skills used in researching and investigating topics in philosophy.
Prerequisite: Any university or university/college preparation course in social sciences and humanities, English, or Canadian and world studies

World Religions Courses

World Religions: Beliefs, Issues, and Religious Traditions
(Gr. 11 University/College Preparation)
HRT3M
This course enables students to discover what others believe and how they live, and to appreciate their own unique heritage. Students will learn about the teachings and traditions of a variety of religions, the connections between religion and the development of civilizations, the place and function of religion in human experience, and the influence of a broad range of religions on contemporary society. This course also introduces students to skills used in researching and investigating world religions.
Prerequisite: None

Technological Education

Exploring Technologies
(Gr. 9 Open)
TIJ1O
This course enables students to further explore and develop technological knowledge and skills introduced in the elementary science and technology program. Students will be given the opportunity to design and create products and/or provide services related to the various technological areas or industries, working with a variety of tools, equipment, and software commonly used in industry. Students will develop an awareness of environmental and societal issues, and will begin to explore secondary and postsecondary education and training pathways leading to careers in technology-related fields.
Prerequisite: None

Interdisciplinary Studies

NOTE: Students may only take one interdisciplinary course at each grade level.

Interdisciplinary Studies
(Gr. 12 University Preparation)
IDC4U
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.
Prerequisites: any university or university/college preparation course

- **Art: The Mirror of Society?**
  (Gr. 12 University Preparation)
  IDC4U1
  This interdisciplinary course explores the role of art and architecture in reflecting and influencing the aesthetic, cultural, social, religious and political life of both western and non-western societies through the ages. Within this context, specific topics will include developments and changes in technique and subject matter, the role of the artist, the relationship between western and non-western art and the influence of art on other forms of creative expression.
  Prerequisite: As noted above

- **Film Studies**
  (Gr. 12 University Preparation)
  IDC4U2
  This course traces the evolution of film, from its earliest beginnings to the present day. Students will explore a range of perspectives - formal, historical, psychological, sociological - a consideration of a variety of film genres from different cultures, countries, schools and movements. An important focus will be on understanding the language of film analysis, and applying it confidently and coherently in discussion and argument.
  Prerequisite: As noted above

- **Making Financial Decisions**
  (Gr. 12 University Preparation)
  IDC4U3
  With reference to common financial industry practices, the Financial Securities course focuses on strategies to develop individual financial security. Students investigate the Canadian economy, corporations, and industries. With this knowledge they explore various approaches to portfolio design and implementation.
  Prerequisite: As noted above

Check the school's website (www.cityacademy.ca) for new course information.