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GENERAL INFORMATION

Overall Goals and Philosophy

The Ontario secondary school program is designed to equip students with the knowledge and skills they will need to lead satisfying and productive lives in the twenty-first century. The program will help prepare students for further education and work, and assist them to become independent, productive, and responsible members of society.

The schools within the Waterloo Region District Board offer an education program that promotes a high standard of achievement, that provides all students with learning opportunities and support, and that is relevant to society's needs and expectations. Courses are offered in new ways intended to ensure that education is relevant both to students' needs and interests and to the requirements of postsecondary institutions and employers.

In Grades 9 and 10, courses strongly promote the acquisition of essential knowledge and skills by all students. Students are encouraged to focus on their areas of strength and interest and to explore various areas of study. In Grades 11 and 12, the program is designed to allow all students to choose courses that are clearly and directly linked to their intended postsecondary destinations.

Requirements for the Ontario Secondary School Diploma

In order to earn an Ontario Secondary School Diploma (OSSD) a student must:

- earn 30 credits (18 compulsory and 12 optional credits),
- complete 40 hours of community involvement activities,
- meet the provincial secondary school literacy diploma requirement through successful completion of the Ontario Secondary School Literacy Test, Ontario Secondary School Literacy Course or adjudication process.

Compulsory Credits

Students must earn the following 18 compulsory credits in order to obtain the OSSD:

- 4 credits in English (1 credit per grade)
- 1 credit in French as a second language
- 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
- .5 credits in civics
- .5 credits in career studies

Plus:

Group 1: 1 additional credit in English, or a third language, or social sciences and the humanities or Canadian and world studies, or guidance and career education, or cooperative education*

Group 2: 1 additional credit in health and physical education, or the arts, or business studies, or cooperative education*

Group 3: 1 additional credit in science (Grade 11 or 12) or technological education (Grades 9-12), or cooperative education*

*A maximum of 2 credits in cooperative education can count as compulsory credits.

Optional Credits

In addition to the 18 compulsory credits, students must earn 12 optional credits selected from the courses listed as available in the school course calendar.

Community Involvement Requirements and Procedures

Students must complete a minimum of 40 hours of community involvement activities during their years in the secondary school program. This requirement is to be completed outside the student's normal instructional hours and in a variety of settings. The list of eligible activities for community involvement is available from the Waterloo Region District School Board as well as the community volunteer agencies (see phone numbers below). Students may not complete the hours through activities that are counted towards a credit, through paid work or by assuming duties normally performed by a paid employee.

Parents and students play a major role in this initiative. Organizations or persons supervising the activities must confirm completion of the 40 hours. Documentation attesting to the completion of each activity must be submitted. This documentation must include for each activity, the name of the person or organization receiving the service, the activity performed, the dates and hours, signatures of the student and his or her parents and a signed acknowledgement by the person (or representative of the organization) involved.

More details on community involvement requirements and procedures are available from the school as well as the Cambridge Volunteer Bureau (623-0423) and the Volunteer Action Centre of Kitchener-Waterloo and Area (742-8610).

Ontario Secondary School Literacy Test

All students who entered Grade 9 in the 2000 - 2001 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 be administered the literacy test when they are in Grade 10. The test is based on Ontario curriculum expectations for language and communication, particularly reading and writing, up to and including Grade 9.

The test will identify areas for remediation for students who are unsuccessful in completing the test. Students who write the test but do not succeed must re-take the test and complete it successfully in order to qualify for a secondary school diploma. There is no limit to the number of times the test may be re-taken.

Accommodations

Students who are receiving special education programs and services and who have an Individual Education Plan may receive the accommodations that are set out in the students' IEP.

Deferrals

Only students who might benefit from a deferral of the test should be considered. This may include students who have been identified as exceptional and students registered in English as a second language/English literacy development courses who have not yet acquired the level of proficiency in English required for successfully completing the test. The principal determines if a deferral should be granted and the time period for the deferral.

Exemptions

Students whose IEP indicates that the student is not working towards the attainment of a secondary school diploma may, with parental consent and approval of the principal, be exempted from participating in the literacy test.

Ontario Secondary School Literacy Course

The standard method for assessing the literacy skills of students in Ontario for the purpose of meeting the literacy requirement for graduation is the Ontario Secondary School Literacy Test (OSSLT). The Ontario Secondary School Literacy Course (OSSLC) has been developed to provide students who have been unsuccessful on the test with intensive support in achieving the required reading and writing competencies, and with an alternative means of demonstrating their literacy skills. Students who have been unsuccessful on the OSSLT may be eligible to take the literacy course.

Policy on Substitutions for Compulsory Courses

Substitutions may be made for a limited number of compulsory credit courses using courses from the remaining courses offered by the school that meet the requirements for compulsory credits. To meet individual students' needs, principals may replace up to three compulsory courses (or the equivalent in half courses).

Requirements for the Ontario Secondary School Certificate and the Certificate of Accomplishment

Ontario Secondary School Certificate

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

Compulsory credits (total of 7)

- 2 credits in English
- 1 credit in Canadian geography or Canadian history
- 1 credit in mathematics
- 1 credit in science
- 1 credit in health and physical education
- 1 credit in the arts or technological education

Optional credits (total of 7)

- 7 credits selected by the student from available courses.

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. This certificate may be a useful means of

recognizing achievement for students who plan to take certain vocational programs or other kinds of further training. 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.

Courses Offered in the School and Related Information

Definition of a Credit

A means of recognition of the successful completion of a course for which a minimum of 110 hours has been scheduled. A credit is granted to a student by the principal of a secondary school on behalf of the Minister of Education.

Definitions of Types of Courses

Three types of courses are offered in Grades 9 and 10:

- *Academic* courses emphasize theory and abstract problems.
- *Applied* courses focus on practical applications and concrete examples.
- *Open* courses are designed to prepare students for further study in certain subjects and to enrich their education generally.

Five types of courses are offered in Grades 11 and 12:

- *Open* courses are appropriate for all students regardless of postsecondary destination. They are not designed with the specific requirements of a postsecondary destination in mind.
- *Workplace Preparation* courses are designed to prepare students for a variety of jobs, training programs and careers. These courses emphasize workplace applications but also explore theoretical material underlying practical applications.
- *College Preparation* courses are designed to prepare students for most college programs and related careers.
- *University/College Preparation* courses are designed to prepare students for entrance requirements for specific university and college programs, and related careers.
- *University Preparation* courses are designed to prepare students for entrance requirements for university programs and related careers.

Transfer Courses are designed to bridge the gap between two courses of different types. Typically, they are shorter and more focused. They are intended to enable students who alter their postsecondary plans to transfer from one type of course to another in Grades 10, 11 and 12.

Information on Access to Courses of Study

Additional information on courses of study for the courses offered in the school are available by contacting the school's administration.

Description of Approved Locally Developed Courses

Locally developed courses are courses that meet educational needs not met by provincial curriculum documents.

Compulsory Credit: Locally Developed Courses

Seven courses are available. A student may count a maximum of six locally developed compulsory courses.

- Essential English, Grade 9 and 10
- Essential Mathematics, Grade 9 and 10
- Essential Science, Grade 9
- Essential Science, Grade 10 or Essential History, Grade 10

Optional Credit: Locally Developed Courses

Four courses are available as locally developed optional credit courses.

- Horticulture and Landscape Technologies, Grade 9, 10 and 11
- Sustainable Living, Grade 10

Description of Specialized Programs

Specialized programs are programs that provide students with a particular curriculum focus to assist them in meeting diploma requirements and in making the transition to postsecondary destinations.

Course Coding System

The course code consists of a course title and a sixth character code: The first five characters are designated by the Ministry of Education and Training. The Waterloo Region District School Board determines the sixth character.

Code Characters	Explanation	Example - ENG 1 D I
1st, 2nd, and 3rd	Subject discipline of the course in letters.	“ENG” English
4th	Grade level as a number * (see below) “1” Grade 9 “3” Grade 11 “2” Grade 10 “4” Grade 12	“1” Grade 9
5th	Type of course as a letter ** (see below) “D” Academic “E” Workplace “P” Applied “C” College “O” Open “M” University/College “U” University	“D” Academic course
6th	Board designated character that indicates credit value or may be used to differentiate between courses with similar codes.	“1” 1 credit

* In the case of a language course the fourth character refers to the level of proficiency.

** In the case of a locally developed course the fifth character is a number or the letter “L”.

Remedial Programs Available in the School

Schools offer special programs for students in need of academic remediation. Remediation may be available in supervised study areas, special education and/or subject specific programs and Adult and Continuing Education classes. Contact the Guidance or Special Education departments for more information.

Transfer Courses: Policies and Procedures

Transfer courses are partial-credit courses that bridge the gap between courses of two different types in the same subject and grade. Transfer courses exist in Grades 10 and 11. These will offer students a means of transferring from one type of course to another if their interests and goals change. These courses will be credit-based and will be counted towards the 30 credits required to meet diploma requirements. The Guidance Department will have information on these courses when it is made available.

Course Changes: Policies and Procedures

Any changes in courses for the present school year will only be made under certain circumstances. Please see your guidance counsellor and/or refer to the school’s handbook for specific details.

Evaluation and Examination Policies

Students entering Grade 9 on or after September 1999 will be evaluated based on the expectations found in provincial curriculum policy documents for the courses in which they are

enrolled. Evaluation is based on the level of achievement the student demonstrates in the skills and knowledge covered in a course. Seventy percent of the evaluation is based on classroom work and may be determined through a variety of methods such as ongoing class demonstrations, presentations, essays, performances and classroom tests and quizzes. Thirty percent of the evaluation is based on a final summative evaluation that may be determined through a variety of methods in the latter portion of the course. These could include a portfolio, essay, examination and/or demonstration. This final evaluation reflects the range and level of student skills and knowledge towards the conclusion of the course.

Ontario Student Record (OSR): Recording and Reporting Procedures

The Ontario Student Record is the official school record for a student. Every Ontario school keeps an OSR for each student enrolled at that school. The OSR contains achievement results, credits earned and diploma requirements completed, and other information important to the education of the student. Students and their parents (if the student is not an adult) may examine the contents of the OSR. These records are protected by the Education Act and freedom of information legislation.

Ontario Student Transcript (OST): Recording and Reporting Procedures

The Ontario Student Transcript is an official and consistent summary of a student’s achievement in Ontario secondary

school credit courses. A current, accurate and complete copy of the OST will be included within the Ontario Student Record.

Full Disclosure for Grades 11 and 12

The Ministry of Education has a policy of full disclosure. This policy states that all Grade 11 and 12 courses attempted by students must be recorded on Ontario Student Transcripts. Full disclosure does not apply to students in Grades 9 or 10. Any Grade 11 or 12 course completed, dropped or failed will appear on a student transcript along with the marks earned in the program.

Full disclosure will take effect after 5 instructional days following the issue of the first provincial report card for single or multiple credit courses.

Prior Learning Assessment and Recognition

Prior Learning Assessment and Recognition (PLAR) has a specific, limited function in the Ontario Secondary School Program. This involves two components: “equivalency” and “challenge”. The “equivalency” component involves the assessment of credentials from other jurisdictions. The “challenge” component allows students to challenge and earn up to 4 credits, a maximum of 2 in a subject area, towards the secondary school diploma. Students may only challenge Grade 10, 11 and 12 courses for credit. Students may challenge a course and be granted credit if they can demonstrate the required skills and knowledge through formal tests and other assessment strategies. Contact your school’s administration for additional information.

Music Certificates

In some cases music certificates may be used to earn credits towards the OSSD. For example, a student who has successfully completed:

- Grade VII Practical and Grade I Rudiments of the Royal Conservatory of Music, Toronto, may earn a Grade 11 university/college destination credit (AMX3MI).
- Grade VIII Practical and Grade II Rudiments of the Royal Conservatory of Music, Toronto, may earn a Grade 12 university/college destination credit (AMX4MI).

Please contact the school’s guidance department for further information.

Course Offerings Through Other Means

The options available to students who wish to consider alternative methods for earning credits to enrolling in courses offered in their secondary school include:

E-Learning: Online Courses

E-Learning is a program delivery model that provides students with an opportunity to earn secondary school credits online. See your guidance counsellor or visit www.wrdsbelearn.ca for additional information.

Correspondence Courses

In special circumstances, individuals may work independently on achieving credit courses towards the secondary school diploma. Contact your guidance counsellor for information on correspondence courses.

Continuing Education

This involves the provision of credit and non-credit courses for students who wish to study part-time or full-time for a short term outside of the secondary school program. Courses may include evening, summer school, daytime classes and adult basic education courses. See your guidance counsellor for further details.

Summer School

Summer school courses may be available for students who wish to earn additional credits, retake courses they have not successfully completed, improve achievement in a course or take transfer courses. See your guidance counsellor for further details or visit www.wrdsb.on.ca

Specialized Cooperative Education

This program is a unique opportunity for students who are under the age of 21 and no longer enrolled in a secondary school to earn credits towards their high school diploma. Students must be employed or are committed to ongoing volunteer work and have regular access to the Internet. Contact your guidance counsellor for further details.

School Support Services and Resources

Guidance and Career Education Program

The Guidance and Career Education Program is a vital and integral part of the Secondary School Program. Through the program, students acquire the knowledge and skills they need in order to learn effectively; to live and work cooperatively and productively with a wide range of people; to set and pursue educational and career goals; and to carry out their social responsibilities.

The program is organized into three areas of learning: student development; interpersonal development; and career development.

Each secondary school has a Guidance Department, staffed by specially trained teachers and support staff and equipped with resources and information materials related to careers and education opportunities.

Career Centres

The Waterloo Region District School Board supports a number of specialized Career Centres. The centres offer comprehensive Career Development Programs and resources for students, educators, and the community.

Special Education Information

Special Education Advisory Committee

The Special Education Advisory Committee is responsible to the Waterloo Region District School Board for examining, reviewing and making recommendations regarding the provision of Special Education Programs and services. SEAC consists of representatives of up to twelve community associations, two trustees and the special education staff. Further information is available at www.wrdsb.on.ca. Members of the community are welcome to attend and observe meetings. Call 570-0003, ext. 4214 to confirm meeting dates.

Special Education Plan

Special Education Plan, Programs and Services, 2005-2007 is written to inform the Ministry of Education and the public

about special education programs and services that are provided by the board in accordance with legislation and ministry policy on special education. It is also a forward-looking document that outlines initiatives that can be undertaken to continue our efforts to improve the quality of our Special Education Programs and services.

Special Education Programs and Services (Regulation 306 under the Education Act) and the Ministry of Education's new policy document, Standards for School Boards' Special Education Plans 2000 set out the criteria for the board's special education plan. This plan follows the requirements set out in these documents. It will be reviewed annually and amended, as necessary, to meet the current needs of our exceptional students. Amendments will be submitted to the Minister of Education for review.

Board Special Education Parent Guide

Copies of the booklet Understanding the IPRC Process: A Parent Guide are available through the school office. This guide reflects information contained in Regulation 181/98.

Special Education Policies and Programs

The Waterloo Region District School Board provides a wide range of programs and services for students with special needs. It is the board's practice to focus on the students who have special education needs and to create opportunities for these students to develop their individual potential in partnership with parents and guardians in an atmosphere of trust, cooperation and respect. A full description of programs and services can be found in the document, titled Special Education Service Delivery 2005-2006, located in each school.

Roles and Responsibilities

Student Responsibilities, Achievement and Attendance

Students who fail courses or choose to withdraw from a course may jeopardize their attainment of an OSSD. Regular attendance at school is critical for the student's learning and achievement of course expectations. Please refer to the school's handbook for specific details.

School's Code of Student Behaviour

A school is a place that promotes responsibility, respect, civility and academic excellence in a safe learning and teaching environment. All students, parents, teachers and staff have the right to be safe, and feel safe, in their school community. With this right comes the responsibility to be law-abiding citizens and to be accountable for actions that put at risk the safety of others or oneself. The Ontario Code of Conduct sets clear provincial standards of behaviour. It specifies the mandatory consequences for student's actions that do not comply with these standards.

All members of the school community are to be treated with respect and dignity, especially persons in positions of authority. Respect and responsibility are demonstrated when a student: comes to school prepared, on time and ready to learn; shows respect for themselves, for others and for those in authority; refrains from bringing anything to school that may compromise the safety of others; follows the established rules

and takes responsibility for his or her own action. Please refer to the school's handbook for specific details.

Cooperative Education and Work Experience

Cooperative education is a planned experiential learning program that allows students to gain invaluable work experience within business, industry, research or community service organizations. Students who enter this experiential program will choose with the assistance of their guidance counsellor, cooperative education teacher or subject teacher, a related out-of-school course linked to a particular in-school course. The student normally participates in career exploration outside his/her home school while applying theory he or she has learned in the classroom within a workplace setting.

For successful completion of cooperative education courses, students must complete a classroom component and a work experience component at a placement. A student completes 110 hours of classroom and workplace learning for each cooperative education credit earned. Depending on the school, a student could earn from one to five cooperative education credits based on this model.

Admission to the cooperative education program will include a thorough review of a student's qualifications and attendance record through an interview process. Teacher references, in support of the student, will also need to be provided.

Student course selections are subject to approval by the cooperative education teacher to ensure that they fulfil Ministry of Education policies and procedures.

Cooperative education credits may be earned through various subject disciplines (e.g., business, health and physical education, science, social sciences, technology).

Some Benefits of Cooperative Education

- Provides exposure to a career of your choice.
- Opportunity to earn references from local employers in your chosen field.
- Develop personal management skills such as teamwork and communication.
- Learn how to market yourself effectively through the development of a resume and interview skills.
- Gather evidence that may be used in your portfolio.
- Develop a network of contacts in your field of interest.

For further information, see your cooperative education coordinator for more details.

Dual Credits

Dual Credits are courses that have curriculum aligned with specified college courses. Students successfully completing a Dual Credit course, as well as, a standardized assessment will receive both the secondary school credit and the specified college credit. Dual Credit course codes in secondary schools are typically identified with the letter 'M' as the sixth character (e.g., TDJ4MM).

The following chart indicates the aligned courses currently available as Dual Credits with Conestoga College.

Dual Credit Courses

Secondary Course Dual Credit	College Course Dual Credit	Conestoga College Programs that Recognize Dual Credits
ICE4MM Computer Engineering	Digital Fundamentals EECE1110 EECE1050	Electrical Engineering Technician Electrical Engineering Technology (Co-Op) Electronics Engineering Technician Computer Engineering Technology Electronics Engineering Technology – Telecommunications Systems Software Engineering Technician Software Engineering Technology (Co-Op)
TDJ4MM Technological Design	Engineering Drawing 1 MECH1050	Manufacturing Engineering Technology – Welding & Robotics Mechanical Engineering Technology – Automated Manufacturing Mechanical Engineering Technology – Design & Analysis Mechanical Engineering Technician – Numeric Control Mechanical Engineering Technology – Robotics & Automation Welding Engineering Technician
TMJ4CM Manufacturing Engineering Technology	Conventional Machining Processes MACH1010	Mechanical Engineering Technology - Automated Manufacturing Mechanical Engineering Technology- Design & Analysis Mechanical Engineering Technician – Numeric Control Mechanical Engineering Technician – Robotics & Automation
TCJ 4CM Construction Technology	Architectural CAD ARCH1050 CAD 1 CIVL1070 (same as above with Word & Excel component)	Construction Engineering Technology Civil Engineering Technology Environmental – Civil Engineering Technology
ICS4MM Computer and Information Science	Programming Fundamentals PROG1780	Computer Programmer Analyst Computer Programmer Information Technology Support Services
BAT4MM Financial Accounting Principles	Introductory Financial Accounting 1 ACCT1030	Business Administration – Accounting Business Administration – Financial Planning Business Administration – Management Studies Business Administration – Marketing Business Administration – Materials and Operations Management General Business

NOTE: Conestoga College will recognize multiple Dual Credits where applicable to a college program.

Contact your guidance counsellor and/or visit the Waterloo Region District School Board website (www.wrdsb.on.ca) for additional information.

Board Designated Magnet Programs

A Board designated magnet is a specialized program that meets the needs of a unique group of students.

These programs support:

- improving student learning and learning opportunities,
- offering a diversity of programs that address varied students needs,
- promoting educational excellence, quality staff and partnerships,
- assisting students to make the transition to post-secondary destinations,
- increasing the opportunity to access unique programs,
- effectively utilizing resources including staff, facilities and finances.

Please contact your guidance counsellor for any additional information.

The following chart lists the Board designated magnet programs.

AREA	PROGRAM NAME	PROGRAM DESCRIPTION	ENTRY PROCESS
SPECIALIZED PROGRAMS	CISCO Certification Program	Specialized courses for students in Grades 11 and 12 to develop skills that assist them in writing the CISCO certification exam.	Application package completed in Grade 10. See your counsellor or principal.
	Design Program	Students enrolled in this program should be interested in pursuing a design-oriented career. They must complete courses in graphics, animation, and architecture. Students also select two electives from the areas of Visual Arts, Photography, Drama and/or Engineering. Those enrolled in this program work towards earning a Design Endorsement upon graduation, with identified concurrent credits recognized by participating post-secondary institutions.	Application package completed in Grade 10. See your counsellor or principal.
	English as a Second Language (ESL)	Students, who have recently arrived in Ontario schools from countries where the usual means of communication is a language other than English, develop the proficiency in English required for success in the secondary program.	Students are assessed on an individual basis and placed according to their needs.
	Environmental Program	This program aims to develop leadership skills and empower students to become environmentally aware global citizens and engaged community participants. Students who are interested in pursuing a career and/or post-secondary education in environment related fields might be interested in this program.	Application package completed in Grade 9. See your counsellor or principal
	Enhanced Program	This offers eligible secondary school students a flexible learning environment and involvement in enhanced learning activities in the variety of courses in the program.	Application package completed in Grade 8. See your guidance counsellor or principal.
	Extended French	Certificate granted for the completion of 7 credit courses in French.	Students enter from a Grade 8 French Immersion program.
	Fast Forward	A program that provides an enhanced literacy and numeracy focus for students working toward high school graduation with a diploma or certificate. Students in this program are currently working below grade level.	Application package completed in Grade 8. See your guidance counsellor or principal.
	French Immersion	Certificate granted for the completion of 10 credit courses in French.	Students enter from a Grade 8 French Immersion program. See your guidance counsellor or principal.
	Geotech Program	Geotechnology is the science and technology of gathering, analyzing, interpreting, distributing, and using geographic information. Eligible students should display a keen interest in environmental sciences or related areas such as engineering, business, geography, geology, global issues, the environment, technology, science, and data management. Students will have access to a unique computer facility designed specifically for geographic studies as well as optional co-op.	Application package completed in Grade 10. See your counsellor or principal. Details available at the website: wci.wrdsb.on.ca/geotech.pdf

Board Designated Magnet Programs

AREA	PROGRAM NAME	PROGRAM DESCRIPTION	ENTRY PROCESS
SPECIALIZED PROGRAMS	Integrated Arts Program	Students entering the program opt for a variety of arts courses as a major and minor focus. The student may major in a single or combination of Visual Arts, Dance, Drama, Vocal, Instrumental or Strings Music. Those enrolled in the program work towards earning an Arts Endorsement upon graduation by successfully completing eight Arts credits as part of their regular high school diploma.	Application package completed in Grade 8. Audition. See your guidance counsellor or principal.
	Instrumental Strings Program	This program is available to any student with prior string experience (Grades 7 or 8, or private lessons) or who has an interest in string playing. Students develop string technique by playing with a class and individually. Students also study the materials of music and develop creative skills.	Application package completed in Grade 8. See your guidance counselor or principal.
	International Baccalaureate Studies	This is an enriched secondary school program. Students earn credits through a curricular framework infused with internationalism and they are granted the International Studies Honours Certificate or the International Baccalaureate Diploma after successfully completing all program requirements.	Application package completed in Grade 8. See your guidance counselor or principal.
	Ontario Youth Apprenticeship Program (OYAP)	Students earn credits towards an OSSD while training as a registered apprentice.	Application package available through guidance.
ALTERNATIVE PROGRAMS	Blairview	Care for students ages 9 - 15.	Placed by application to Consultant-Care, Custody, Treatment and Alternative Programs.
	Bridges	Alternative program for students with behaviour needs.	Placed by application to Consultant-Care, Custody, Treatment and Alternative Programs.
	Lutherwood (CODA)	Residential and day treatment for students ages 12 - 17.	Placed through a contract between the agency and the family.
	New Dawn	Alternative high school transition program for students with attendance issues.	Students are referred by their school social worker and interviewed for the program.
	St. Monica House	Care, day and residential program for pregnant teens.	Direct application to the program.
	Young Adult Program (YAP)	Day treatment for students aged 16 through 21.	Direct application to the program via an admission to Grand River Hospital.
	60 Grand Avenue	Alternative high school transition program for students with attendance issues.	Students are referred by their school social worker and interviewed for the program.

Open Door Centre for Learning – Cambridge and Waterloo



Programs at Open Door

Workplace Essentials
 U-Turn
 Self-Study Depot
 Adult Day Credit
 Assessment & Counselling Services
 Literacy & Basic Skills
 English as a Second Language

Other Programs/Options

Night School
 Venture Creation Program
 Computers for FiftyPlus
 Driver Education
 High School Equivalency Preparation Courses (GED)
 International Languages
 New Canadian Program
 Summer School
 Remediation/Tutorial programs for 7-10 students

The Open Door Centre for Learning provides an opportunity for students who have left school to re-start their academic career.

For further information please contact a guidance counsellor at one of the centres: Waterloo: 519-885-0800
 Cambridge: 519-740-3800

Board Designated Magnet Programs: Ontario Youth Apprenticeship Program (OYAP)



OYAP is a specialized cooperative education program that provides students with an opportunity to begin an apprenticeship, in a skilled trade, while completing their Ontario Secondary School diploma requirements.

OYAP programs usually begin in Grade 11 and required a two-year commitment. However, the Home Building program provides students with the option of either a one or two-year commitment.

What OYAP Programs Are Available?

The following is a list of OYAP programs:

Auto Body and Collision Repairer (SSS/SJAM)	Industrial Millwright Mechanic (BCI/GCI)
Automotive Service Technician (KCI/GPSS)	Machine Tool Builder Integrator (BCI/GCI)
Agricultural Equipment Technician (SSS/FHCI)	Mould Maker (BCI/GCI)
Baker (GPSS/KCI)	Pattern Maker (BCI/GCI)
Construction Trades - Home Building*(EDSS/JHSS)	Refrigeration and Air Conditioning Systems Mechanic (EDSS)
Cook (KCI/GPSS)	Sheet Metal Worker (CHCI)
Educational Assistant **(BCI, FHCI, GCI, SJAMSS)	General Machinist (BCI/GCI)
Electrician (FHCI/PHS)	Tool and Die Maker (BCI/GCI)
Hairstylist (GPSS/KCI)	Truck and Coach Technician (FHCI/SSS)
Heavy Duty Equipment Technician (SSS/FHCI)	Welder/Fitter (CHCI/GCI)
Horticulture Technician (KCI/GPSS)	

For the above programs (except the Home Building program) students will learn the applicable Ministry of Training, Colleges and Universities (MTCU) Basic Level apprenticeship curriculum. Personalized Placement Learning Plans for the work placement part of the program will adhere to the MTCU Training Standards used to accredit competencies in the specific skilled trade. Work placements will be provided with businesses that want to train an apprentice. Successful experiences with the business may result in full-time employment upon graduation.

***Home Building Program**

This 4 credit, one or two-year program, can lead to an apprenticeship in one of the Construction trades (e.g. General Carpenter, Plumber, Brick and Stone Mason, Electrician, etc.). While building a house from foundation to completion students will be exposed to all the skilled trades required to construct it.

****Educational Assistant Program**

This program will be taught one day per week at Conestoga College in the second semester of Grade 12. During the remainder of the week students will work as registered EA apprentices within a school. Prior to acceptance into this program, students must complete 3 prerequisites Family Studies courses.

Program Delivery Models

OYAP programs are delivered in two models:

- Students in their current school for the core program (e.g., English) and then travel to the central location that offers the specific in-school OYAP program.
- Students transfer to the school offering the specific OYAP program.

OYAP Requirements

Students must:

- be enrolled as a full-time student during the program
- have successfully completed all Grade 9 & Grade 10 credits (16) (prior to start of program)
- be 16 years of age or older
- have an acceptable attendance record
- have an acceptable academic record (e.g., recommended minimum average of 70%)
- be responsible for their own transportation to and from the placement worksite
- be responsible for their own transportation to the school delivering the OYAP program
- obtain Student Accident insurance through Reliable Life or provide proof that you have adequate coverage
- complete a co-operative education application form and an OYAP application form
- completion of all compulsory credits required for the OSSD

OYAP applications are available in the school's guidance office. Please submit completed forms to your Guidance Counsellor.

Where To Get Information

For additional information contact your Guidance Counsellor, Cooperative Education teacher, Technological Education teacher, the OYAP Project Manager at 570-0003 ext. 4289, or visit the WRDSB OYAP website at www.goOYAP.ca

Board Designated Magnet Programs: School-Work Transition Program



The FAST FORWARD program offers students an opportunity to advance directly from high school into a career. Students take courses that may lead to a 30 credit Ontario Secondary School Graduation diploma or a 14 credit Ontario Secondary School Certificate.

Students in the FAST FORWARD Program...

- Learn by doing.
- Prefer their learning to be relevant to their goals and their future.
- Prefer to learn both inside and outside of the classroom environment.
- Value community connections and partnerships.
- Possess a variety of skills and strengths in the areas of:
 - ▶ building relationships with people,
 - ▶ using technical, mechanical and hands-on abilities,
 - ▶ creativity,
 - ▶ communicating with others.

Students in the FAST FORWARD are provided with the opportunity to:

- Develop the knowledge, skills, and attitudes that will allow them to move easily from school to work and begin a career.
- Earn an Ontario Secondary School Diploma, or an Ontario Secondary School Certificate, or a Certificate of Accomplishment.
- Earn industry-recognized certifications (WHMIS, Service Excellence).
- Develop positive relationships and networks with employers and the community.
- Improve literacy and numeracy skills.
- Become aware of a wide range of employment opportunities throughout Grades 9 and 10.
- Explore and experience a variety of career opportunities in Grades 11 and 12.
- Participate in “on the job” learning which includes job shadowing, cooperative education, work experience along with a variety of “real life” work experiences scheduled during the school day.
- Develop an employment portfolio to present to employers.
- Be ready to start a career and continue lifelong learning when they leave high school.
- Experience success, build self-esteem, have a future full of promise.

The FAST FORWARD program provides a variety of industry specific experiences.

Students are provided with the opportunity to learn skills in a variety of careers in areas such as:

- Retail and Business Support Services
- Horticulture and Landscaping
- Manufacturing
- Transportation Technology
- Construction Technology
- Hospitality and Tourism
- Personal Care Services
- Printing

The FAST FORWARD Program is available at the following Waterloo Region District School Board secondary schools.

Cambridge: Glenview Park Secondary School
(519) 621-9510
Jacob Hespeler Secondary School
(519) 658-4910

Kitchener: Grand River Collegiate Institute
(519) 576-5100
Kitchener-Waterloo Collegiate and Vocational School
(519) 745-6851

Waterloo: Sir John A. Macdonald Secondary School
(519) 880-9979

Contact your home school guidance counsellor for additional information.

E-Learning: Online Course Offerings

www.wrdsbeLearn.ca

The following is general information about online learning. For additional course and/or registration information, please contact your Guidance Counsellor.

What is E-Learning?

E-Learning is a program delivery model that provides students with an opportunity to earn secondary school credits online. Students must be enrolled in a WRDSB secondary school during the time they are taking the course.

Why should I consider taking an online course?

Online learning:

- Expands course availability and timetable flexibility (e.g., Provides access to courses that are otherwise unavailable due to timetable conflict, course not offered, or course enrolment full.)
- Provides an engaging, creative and interactive learning environment that may complement a student's learning style
- Prepares students for college, university and the world of work

How do online courses work? Do I have to be online at a certain time?

The Waterloo Region District School Board online courses are designed to allow students to attend courses on days and at times that are convenient for them. There are set due dates for assignments and assessments, but students have the flexibility to complete assignments as their daily schedule permits.

Is E-Learning for me?

Students who have been successful in online learning typically have the following characteristics:

- Able to work independently
- Highly motivated
- Able to meet deadlines
- Comfortable using computers (saving & printing), the Internet, and e-mail
- Strong written communication skills

Frequently Asked Questions

What type of computer and software do I need?

Students will need regular access to a computer, an Internet connection and a word processor. It is strongly recommended that students have access to a computer and the Internet at home.

How much does it cost?

There is no fee for students registered with the Waterloo Region District School Board.

How do I register to take an online course?

First, students need to consult with their school guidance counsellor. After the consultation, students may need to register online at www.wrdsbelearn.ca

Who teaches the course?

Certified Ontario teachers teach all of the credit courses offered through the online environment.

Will I be completely on my own?

No. Students will find that online learning is very collaborative and provides many opportunities for discussion and sharing of ideas.

How will I receive a credit?

The student's home school will grant the credits earned through the online environment.

How are tests taken?

Quizzes/tests, depending on the course, may be taken online, at a central location, or at the student's home school, as arranged by the teacher.

Will I need a textbook or other materials with my class?

Most courses are designed so all materials are accessible online; however, students who require a textbook or other materials will be informed of the process by his/her online course teacher.

Where do I go to get help?

- Course Help is available through the online teacher who will provide contact information at the beginning of each course.
- Technical Help is available through the online help desk or through a toll free phone number, which is provided at the beginning of the course.
- Login and Password Help is available through the website or by contacting the Guidance Counsellor.

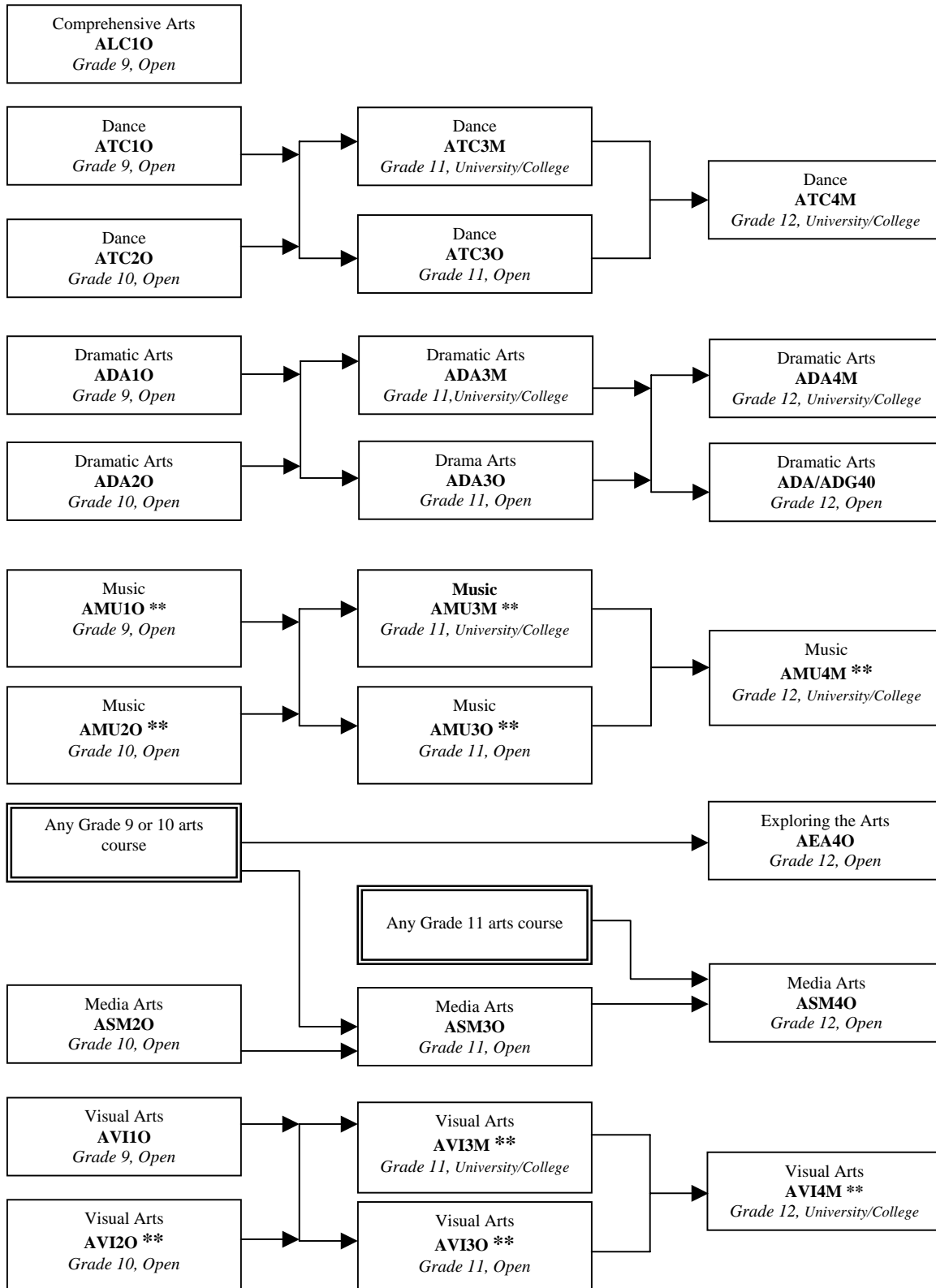
What is the role of the parent in online learning?

The parent(s) should consult with the student's Guidance Counsellor to determine if an online course is a good alternative to traditional learning. Parents should assist the student by encouraging active participation in the course, supporting the completion of assignments in a timely manner, and monitoring progress.

How does a student/parent talk to a teacher?

Online teachers are available to talk to students or parents at the teacher's school, through email, or according to the procedures set by the teacher at the beginning of the course.

Prerequisite Chart for The Arts



**** Please refer to the course descriptions for additional course codes.**

Course Descriptions for The Arts

Grade 9

ALC1OI

Comprehensive Arts, Grade 9, Open

This course integrates three or more of the arts (dance, dramatic arts, music, visual arts) and examines the similarities and differences among these subjects. Students will learn specialized arts vocabulary while investigating traditional concepts, stylistic elements, and principles unique to the various arts, as well as applications of new technologies.

ATC1OI

Dance, Grade 9, Open

This course emphasizes the basic movements of one or more world dance forms, and the scientific and safety principles related to dance. Students will create movement vocabulary for dance compositions, express themselves through movement, and investigate the historical and cultural development of dance. They will also learn about creative influences on dancers and choreographers, and the role of criticism in the art of dance.

ADA1OI

Dramatic Arts, Grade 9, Open

This course emphasizes the active exploration of dramatic forms and techniques, using material from a wide range of authors, genres, and cultures. Students will construct, discuss, perform, and analyse drama and then reflect on the experiences to develop an understanding of themselves, the art form, and the world around them.

AMI1OI, AMI1OX, AMS1OI, AMS1OX, AMU1OI, AMU1OX, AMR1OH, AMR1OK, AMV1OI, AMV1OX

Music, Grade 9, Open

This course emphasizes the performance of music at a level that strikes a balance between challenge and skill and is aimed at developing technique, sensitivity, and imagination. Students will participate in creative activities that teach them to listen with understanding. They will also learn correct musical terminology and its appropriate use.

Code	Title	Additional Information
AMI1OI	Instrumental Music – Band	This course is intended for students who have experience with a band instrument.
AMI1OX	Instrumental Music – Band	This is intended as an introductory course for students who have never played a band instrument.
AMS1OI	Instrumental Music – Strings	This course is intended for students who have experience with a string instrument.
AMS1OX	Instrumental Music – Strings	This is intended as an introductory course for students who have never played a string instrument.
AMU1OI	Music	
AMU1OX	Music	This is intended as an introductory course for students who have no experience with music.
AMR1OH	Repertoire – Part 1	This is a 0.5 credit course.
AMR1OK	Repertoire – Part 2	This is a 0.5 credit course.
AMV1OI	Music – Vocal/Choral	
AMV1OX	Music – Vocal/Choral	This is intended as an introductory course for students who have no experience with vocal/choral music.

AVI1OI, AVI1OF, AWA1OI**Visual Arts, Grade 9, Open**

This course offers 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 through working with a range of materials, processes, techniques, and styles. They will learn and use methods of analysis and criticism and will study the characteristics of particular historical art periods and a selection of Canadian art and the art of other cultures.

Code	Title	Additional Information
AVI1OI	Visual Arts	
AVI1OF	Visual Arts	This course is offered with French as the language of instruction.
AWA1OI	Crafts General	

Grade 10**ATC2OI****Dance, Grade 10, Open**

This course requires students to develop their dance skills and learn the theoretical basis for working with anatomical structure in executing dance movements. Student learning will include the processes that form the basis for creating dance; the historical development of dance; students' own aesthetic appreciation of dance as they participate in dance class, rehearsals, and performances; and the specialized vocabulary of dance criticism.

ADA2OI, ADA2OF**Dramatic Arts, Grade 10, Open**

This course requires students to actively explore dramatic forms and techniques, using their own ideas and concerns as well as sources selected from a wide range of authors, genres, and cultures. Student learning will include identifying and using the principles of space, time, voice, and movement in creating, sustaining, and communicating authentic roles within a drama. Students will assume responsibility for decisions made in the creation and presentation of the drama, and will analyze and reflect on the experience.

Code	Title	Additional Information
ADA2OI	Dramatic Arts	
ADA2OF	Dramatic Arts	This course is offered with French as the language of instruction.

AMG2OI, AMH2OI, AMI2OI, AMI2OX, AMK2OI, AMK2OX, AMR2OH, AMR2OK, AMS2OI, AMV2OI, AMU2OI, AMP2OI**Music, Grade 10, Open**

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

Code	Title	Additional Information
AMG2OI	Guitar Music	
AMH2OI	Stage – Band Music	
AMI2OI	Instrumental Music – Band	
AMI2OX	Instrumental Music – Band	This course is intended as an introductory course for students who have never played a band instrument.
AMK2OI	Keyboard Music	
AMK2OX	Keyboard Music	This is an introductory course for students who have not taken a Grade 9 course or other music training.
AMR2OH	Repertoire – Part 1	This is a 0.5 credit course.
AMR2OK	Repertoire – Part 2	This is a 0.5 credit course.
AMS2OI	Instrumental Music – Strings	
AMV2OI	Music – Vocal/Choral	
AMU2OI	Music	
AMP2OI	Instrumental Music – Percussion	

Arts

AVI2OI, AVI2OX, AWD2OI, AWL2OI, AWA2OI, AWQ2OI, AWM2OI, AWS2OI

Visual Arts, Grade 10, Open

This course emphasizes learning through practice; building on what students know; and introducing them to new ideas, materials, and processes for artistic thinking and experimentation. Student learning will include the refined application of the elements and principles of design, incorporating the creative and design processes, and the relationship between form and content. Students will also learn about the connections between works of art and their historical contexts. Course objectives may be achieved either through a comprehensive program or through a program focused on a particular art form (e.g., drawing, painting).

Code	Title	Additional Information
AVI2OI	Visual Arts	
AVI2OX	Visual Arts	This is intended as an introductory course for students who have not taken a Grade 9 Visual Arts course.
AWD2OI	Applied Design	
AWL2OI	Drawing	This is a drawing course for advanced abilities.
AWA2OI	Crafts General	
AWQ2OI	Photography	
AWM2OI	Drawing and Painting	
AWS2OI	Computer	

ASM2OI

Media Arts, Grade 10, Open

This course will develop students' artistic knowledge and skills by introducing them to current media arts technologies and processes. Student learning will include the analysis, appreciation, and production of media art, using a variety of traditional techniques (e.g., photography, film, photocopy art, video, analog sound recording) and emergent technologies (e.g., computer, digital camera, scanner, multimedia, animation).

Grade 11

ATC3MI

Dance, Grade 11, University/College Preparation

This course emphasizes the development of technical, composition, and presentation skills in one or more world dance forms. Students will acquire and refine dance skills; compose and present increasingly complex dance works; interpret and evaluate a variety of dance presentations; and study the historical development of various dance forms and the function of dance in specific cultures.

Prerequisite: Grade 9 or 10 Dance, Open

ATC3OI

Dance, Grade 11, Open

This course will give students opportunities to express increasingly complex ideas through movement and to experiment with choreography. Students will develop technical skills; study the historical development of various dance forms and the function of dance in specific cultures; evaluate dance works; and investigate ways in which the study of dance can prepare them for various careers. *Prerequisite: Grade 9 or 10 Dance, Open*

ADA3MI

Dramatic Arts, Grade 11, University/College Preparation

This course requires students to put together and perform dramatic presentations that deal with a variety of issues from the past and present. Students will analyse, interpret, and perform works of drama from various cultures; including Western plays from around 1900. Students will also do research on different acting styles and conventions for their presentations, create original works, and analyse the functions of playwright, director, actor, technician, and audience. *Prerequisite: Grade 9 or 10 Dramatic Arts, Open*

ADA3OI

Dramatic Arts, Grade 11, Open

This course requires students to put together and present dramatic works dealing with stories, personal experiences, and local issues. Students will do research on and study contemporary theatrical forms, such as docudrama and forum theatre. They will interpret and present works in a variety of dramatic forms; create and script original works; analyse and reflect on dramatic works; and develop their communication skills and other skills useful in a variety of careers. *Prerequisite: Grade 9 or 10 Dramatic Arts, Open*

ASM3OI, ASM3OF**Media Arts, Grade 11, Open**

This course emphasizes the development of the knowledge and skills required for the production of media art works (e.g., robosculture, photocopy art, computer animation with synthesized sound). Students will develop an appreciation of the history of media arts through analysing specific works, and will create media art works using a variety of technologies (e.g., digital camera, photo-imaging software, computer-modelling software, synthesizer, videotape, multi-track sound recording). *Prerequisite: Any Grade 9 or 10 course in the arts*

Code	Title	Additional Information
ASM3OI	Media Arts	
ASM3OF	Media Arts	This course is offered with French as the language of instruction.

AMI3MI, AMJ3MI, AMS3MI, AMU3MI, AMV3MI, AMH3MH, AMR3MH, AMR3MK**Music, Grade 11, University/College Preparation**

This course emphasizes the appreciation, analysis, and performance of various kinds of music, including baroque and classical music, popular music, and Canadian and non-Western music. Students will perform technical exercises and appropriate repertoire, complete detailed creative activities, and analyse and evaluate live and recorded performances. They will continue to increase their understanding of the elements of music while developing their technical and imaginative abilities. *Prerequisite: Grade 9 or 10 Music, Open*

Code	Title	Additional Information
AMI3MI	Instrumental Music – Band	
AMJ3MI	Vocal Jazz	
AMS3MI	Instrumental Music – Strings	
AMU3MI	Music	
AMV3MI	Music – Vocal/Choral	
AMH3MH	Stage – Band Music	
AMR3MH	Repertoire – Part 1	This is a 0.5 credit course.
AMR3MK	Repertoire – Part 2	This is a 0.5 credit course.

AMG3OI, AMH3OH, AMH3OI, AMK3OI, AMR3OH, AMR3OK, AMU3OI, AMV3OI, AMM3OI**Music, Grade 11, Open**

This course develops students' artistic knowledge and skills through the performance of music and the preparation of music productions. Students will perform appropriate works, particularly works in contemporary popular styles. Independently and in groups, they will also plan, market, and produce music productions, making use of appropriate technology, and will evaluate the results. *Prerequisite: Grade 9 or 10 Music, Open*

Code	Title	Additional Information
AMG3OI	Guitar Music	
AMH3OH	Stage – Band Music	This is a 0.5 credit course.
AMH3OI	Stage – Band Music	
AMK3OI	Keyboard Music	
AMR3OH	Repertoire – Part 1	This is a 0.5 credit course.
AMR3OK	Repertoire – Part 2	This is a 0.5 credit course.
AMU3OI	Music	
AMV3OI	Vocal/Choral	
AMM3OI	Music and Computers	

AVI3OI, AWA3OI, AWD3OI, AWL3OI, AWQ3OI, AWS3OI, AWT3OI, AWM3OI, AWO3OI**Visual Arts, Grade 11, Open**

This course focuses on studio activities in one or more of the visual arts. Students will create art works that explore a wide range of subject matter, and will evaluate art works using specific criteria. They will also examine historical and cultural contexts of Western art (including Canadian art) and art from various world cultures to support their study of specific media. *Prerequisite: Grade 9 or 10 Visual Arts, Open*

Code	Title	Additional Information
AVI3OI	Visual Arts	
AWA3OI	Crafts General	
AWD3OI	Applied Design	This course is intended for students with no prior experience.
AWL3OI	Drawing	
AWQ3OI	Photography	
AWS3OI	Computer	
AWT3OI	Non-Traditional	
AWM3OI	Drawing and Painting	
AWO3OI	Print Making	

Arts

AVI3MI, AWN3MI, AWQ3MI, AWT3MI, AWS3MI, AWL3MI

Visual Arts, Grade 11, University/College Preparation

This course provides students with opportunities to further develop their skills and knowledge in visual arts. Students will explore a range of subject matter through studio activities, and will consolidate their practical skills. Students will also analyse art works and study aspects of Western art history, as well as Canadian art forms and art forms from various parts of the world. *Prerequisite: Grade 9 or 10 Visual Arts, Open*

Code	Title	Additional Information
AVI3MI	Visual Arts	
AWN3MI	Painting	
AWQ3MI	Photography	
AWT3MI	Non-Traditional	
AWS3MI	Computer	
AWL3MI	Drawing	

Grade 12

ATC4MI

Dance, Grade 12, University/College Preparation

This course emphasizes the development of technical proficiency and the creation and presentation of complex compositions. Students will acquire increasingly difficult technical skills; assume leadership as dancers, choreographers, and production personnel; analyse and evaluate dance performances; and study historical and cultural aspects of dance, especially of dance in Canada. *Prerequisite: Grade 11 Dance, University/College or Open*

ADA4MI, ADF4MI

Dramatic Arts, Grade 12, University/College Preparation

This course requires students to experiment with forms and conventions in dramatic literature, and to create, script, and present original and adapted works. Students will do research on dramatic forms, conventions, themes, and theories of acting and directing from different historical periods, and apply their knowledge of these in interpreting dramatic literature, including Canadian works and works from various cultures in the late twentieth century. Students will also examine the significance of dramatic arts in various cultures. *Prerequisite: Grade 11 Dramatic Arts, University/College or Open*

Code	Title	Additional Information
ADA4MI	Dramatic Arts	
ADF4MI	Director's Craft	

ADA4OI, ADG4OI

Dramatic Arts, Grade 12, Open

This course requires students to put together and present a variety of dramatic works. Students will present works by Canadian and other playwrights, and develop original material based on personal narratives, local community issues, or global concerns. They will have hands-on experiences with various aspects of dramatic arts productions, including performance, set design, lighting, costumes, stage and technical management, administration, and marketing. Students will also explore possible careers related to the dramatic arts. *Prerequisite: Grade 11 Dramatic Arts, University/College or Open*

Code	Title	Additional Information
ADA4OI	Dramatic Arts	
ADG4OI	Acting	

AEA4OI**Exploring the Arts, Grade 12, Open**

This course emphasizes the acquisition and application of knowledge and skills related to the creation, interpretation, and production of works involving dance, drama, media arts, music, and/or visual arts. Students will study, evaluate, create, and promote art works and productions, and will use a variety of established and experimental techniques and various technologies in individual or group projects (e.g., the presentation of a theatrical scene or an art exhibit on a website.) *Prerequisite: Any Grade 9 or 10 course in the Arts*

ASM4OI**Media Arts, Grade 12, Open**

This course emphasizes the development of the knowledge and skills required for the production of interactive media art forms (e.g., interactive art installations, interactive videos, simulations, network art works). Students will analyse and evaluate media art works, and will create their own works using a variety of technical elements and processes (e.g., computer graphics, photo-imaging, digital video production techniques, electro acoustics). Students will maintain a portfolio of their media art works. *Prerequisite: Grade 11 Visual Arts, University/College or Open, Grade 11 Media Arts, Open*

AMH4MI, AMI4MI, AMS4MI, AMU4MI, AMT4MI, AMV4MI, AMR4MH, AMR4MK, AMR4MS, AMR4MT, AMG4MI

Music, Grade 12, University/College Preparation

This course emphasizes the appreciation, analysis, and performance of music from the romantic period and from the twentieth century, including jazz, popular music, art music, and Canadian and non-Western music. Students will concentrate on developing interpretative skills and the ability to work independently. They will also complete complex creative projects in which they make use of new technologies. *Prerequisite: Grade 11 Music, University/College or Open*

Code	Title	Additional Information
AMH4MI	Stage – Band Music	
AMI4MI	Band	
AMS4MI	Strings	
AMU4MI	Music	
AMT4MI	Music Theatre	
AMV4MI	Vocal/Choral	
AMR4MH	Repertoire – Part 1	This is a 0.5 credit course.
AMR4MK	Repertoire – Part 2	This is a 0.5 credit course.
AMR4MS	Repertoire – Part 1	This 0.5 credit course is for instrumental music.
AMR4MT	Repertoire – Part 2	This 0.5 credit course is for vocal/choral music.
AMG4MI	Guitar Music	

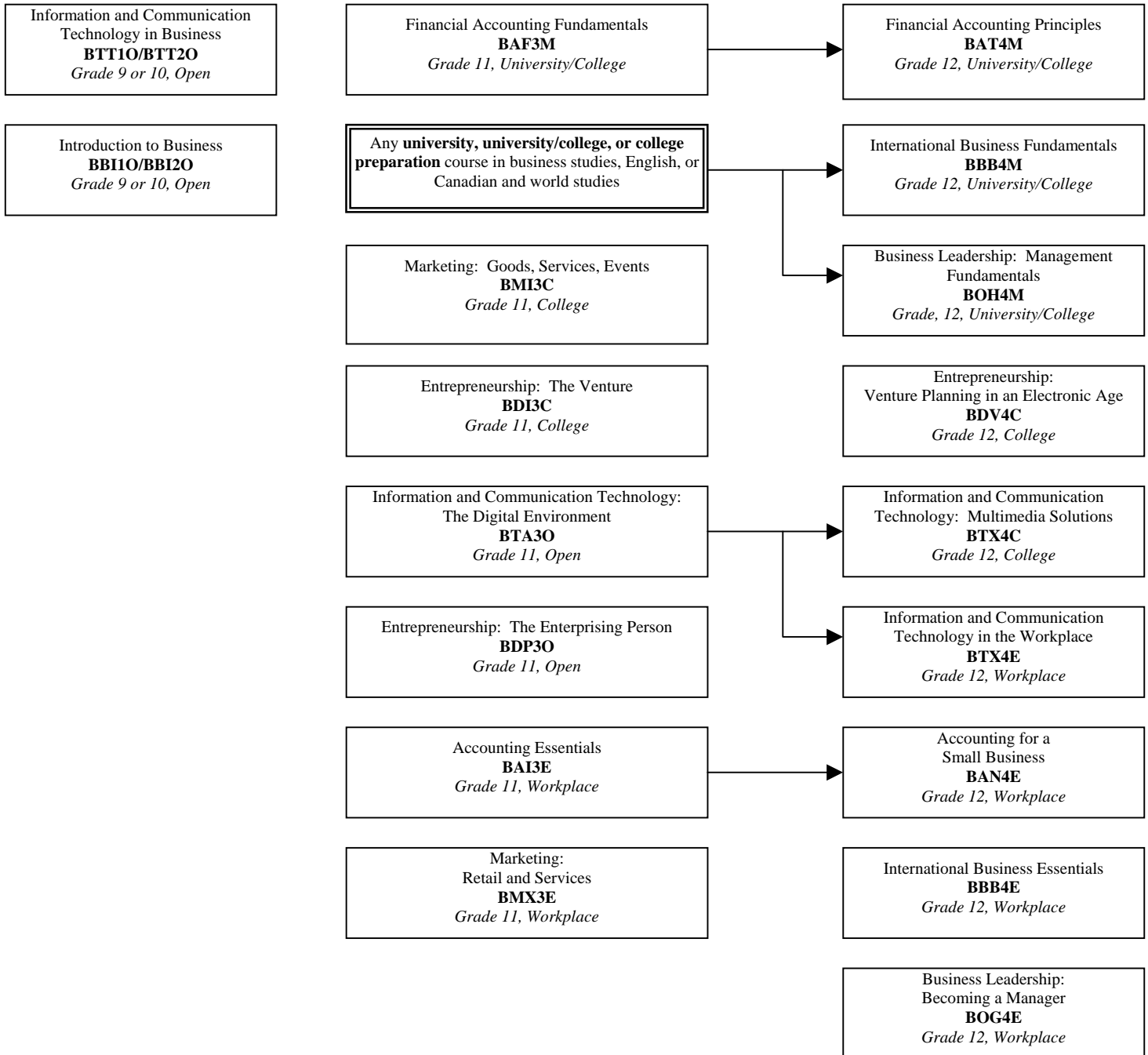
AVI4MI, AWD4MI, AWE4MI, AWR4MI, AWS4MI, AWU4MI, AWQ4MI, AWP4MI, AWA4MI, AWM4MI, AWT4MI

Visual Arts, Grade 12, University/College Preparation

This course focuses on the refinement of students' skills and knowledge in visual arts. Students will analyse art forms; use theories of art in analysing and producing art; and increase their understanding of stylistic changes in Western art, Canadian (including Native Canadian) art, and art forms from various parts of the world. Students will produce a body of work demonstrating a personal approach. *Prerequisite: Grade 11 Visual Arts, University/College or Open*

Code	Title	Additional Information
AVI4MI	Visual Arts	
AWD4MI	Applied Design	
AWE4MI	Information/ Consumer Design	
AWR4MI	Film Video	
AWS4MI	Computer	
AWU4MI	Art History	
AWQ4MI	Photography	
AWP4MI	Sculpture	
AWA4MI	Crafts General	
AWM4MI	Drawing and Painting	
AWT4MI	Non-Traditional	

Prerequisite Chart for Business Studies



Course Descriptions for Business Studies

- Note:** 1) A student may take a maximum of one BBI course for credit.
 2) A student may take a maximum of one BTT course for credit.

Grade 9

BBI1OI, BBI1OF

Introduction to Business, Grade 9, Open

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

Code	Title	Additional Information
BBI1OI	Introduction to Business	
BBI1OF	Introduction to Business	This course is offered with French as the language of instruction.

BTT1OI, BTT1OF, BTT1OZ

Information and Communication

Technology in Business, Grade 9, Open

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

Code	Title	Additional Information
BTT1OI	Information and Communication Technology in Business	
BTT1OF	Information and Communication Technology in Business	This course is offered with French as the language of instruction.
BTT1OZ	Information and Communication Technology in Business	This course is for students enrolled in the ESL/ELD program.

Grade 10

BBI2OI, BBI2OF

Introduction to Business, Grade 10, Open

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

Code	Title	Additional Information
BBI2OI	Introduction to Business	
BBI2OF	Introduction to Business	This course is offered with French as the language of instruction.

BTT2OI, BTT2OF, BTT2OZ

Information and Communication

Technology in Business, Grade 10, Open

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

Code	Title	Additional Information
BTT2OI	Information and Communication Technology in Business	
BTT2OF	Information and Communication Technology in Business	This course is offered with French as the language of instruction.
BTT2OZ	Information and Communication Technology in Business	This course is for students enrolled in the ESL/ELD program.

Business Studies

Grade 11

BAF3MI

Financial Accounting Fundamentals, Grade 11, University/College Preparation

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

BAI3EI

Accounting Essentials, Grade 11, Workplace Preparation

This course introduces students to the accounting cycle of a service business. Students will use computer application software to record business transactions and to prepare financial statements. Students will also investigate banking and cash management, decision making, ethical behaviour, and career opportunities in the field of accounting.

BDI3CI

Entrepreneurship: The Venture, Grade 11, College Preparation

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

BDP3OI

Entrepreneurship: The Enterprising Person, Grade 11, Open

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

BTA3OI

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

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

BMI3CI

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

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.

BMX3EI

Marketing: Retail and Service, Grade 11, Workplace Preparation

This course focuses on marketing activities in the retail and service sectors. Students will examine trends and global influences on marketing decisions, and will learn about the importance of customer service in developing a customer base and maintaining customer loyalty. Through hands-on learning, students will develop personal selling and information technology skills that will prepare them for a variety of marketing-related positions in the workplace.

Grade 12

BAT4MI

Financial Accounting Principles, Grade 12, University/College Preparation

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

BAN4EI**Accounting for a Small Business, Grade 12, Workplace Preparation**

This course further develops students' understanding of the fundamentals of accounting by having them examine each component of the accounting cycle, with an emphasis on the merchandising business. Students will use computer application software to learn how accounting is practised in the workplace. Students will acquire an understanding of payroll systems, inventory, specialized journals, subsidiary ledgers, income tax reporting, and budgeting. *Prerequisite: Grade 11 Accounting Essentials, Workplace Preparation*

BDV4CI**Entrepreneurship: Venture Planning in an Electronic Age, Grade 12, College Preparation**

This course provides students with the opportunity to develop and apply entrepreneurial skills through the creation of a venture plan that capitalizes on the potential of e-commerce. Students will research and identify an opportunity for a venture. They will then complete the components of a venture plan that includes a website.

BTX4CI**Information and Communication Technology: Multimedia Solutions, Grade 12, College Preparation**

This course provides students with the opportunity to apply their information and communication technology skills while working in a team environment. Through a project-based approach, students will have opportunities to integrate common business software applications and apply multimedia techniques. Students will further develop their understanding of electronic business and e-commerce environments. The skills acquired in this course will prepare students for success in postsecondary studies and in their future careers. *Prerequisite: Grade 11 Information and Communication Technology: The Digital Environment, Open*

BTX4EI**Information and Communication Technology in the Workplace, Grade 12, Workplace**

This course provides students with the opportunity to further develop essential workplace skills in information and communication technology while working in a team environment. Using a project-based approach, students will focus on integrating software applications and applying multimedia software features. Students will expand their understanding of e-business and e-commerce environments and workplace ethics. This course will prepare students for a successful transition from secondary school to the workplace. *Prerequisite: Grade 11 Information and Communication Technology: The Digital Environment, Open*

BBB4EI**International Business Essentials, Grade 12, Workplace Preparation**

This course provides an introduction to international business. Students will explore the economic relationships that Canada has developed with other nations, and the impact of these relationships on productivity, prices, and variety of goods. This course also introduces students to a variety of career opportunities in international business.

BBB4MI**International Business Fundamentals, Grade 12, University/College Preparation**

This course provides an overview of the importance of international business and trade in the global economy and explores the factors that influence success in international markets. Students will learn about the techniques and strategies associated with marketing, distribution, and managing international business effectively. This course prepares students for postsecondary programs in business, including international business, marketing, and management. *Prerequisite: Any University, University/College, or College preparation course in business studies, English, or Canadian and World Studies*

BOH4MI**Business Leadership: Management Fundamentals, Grade 12, University/College Preparation**

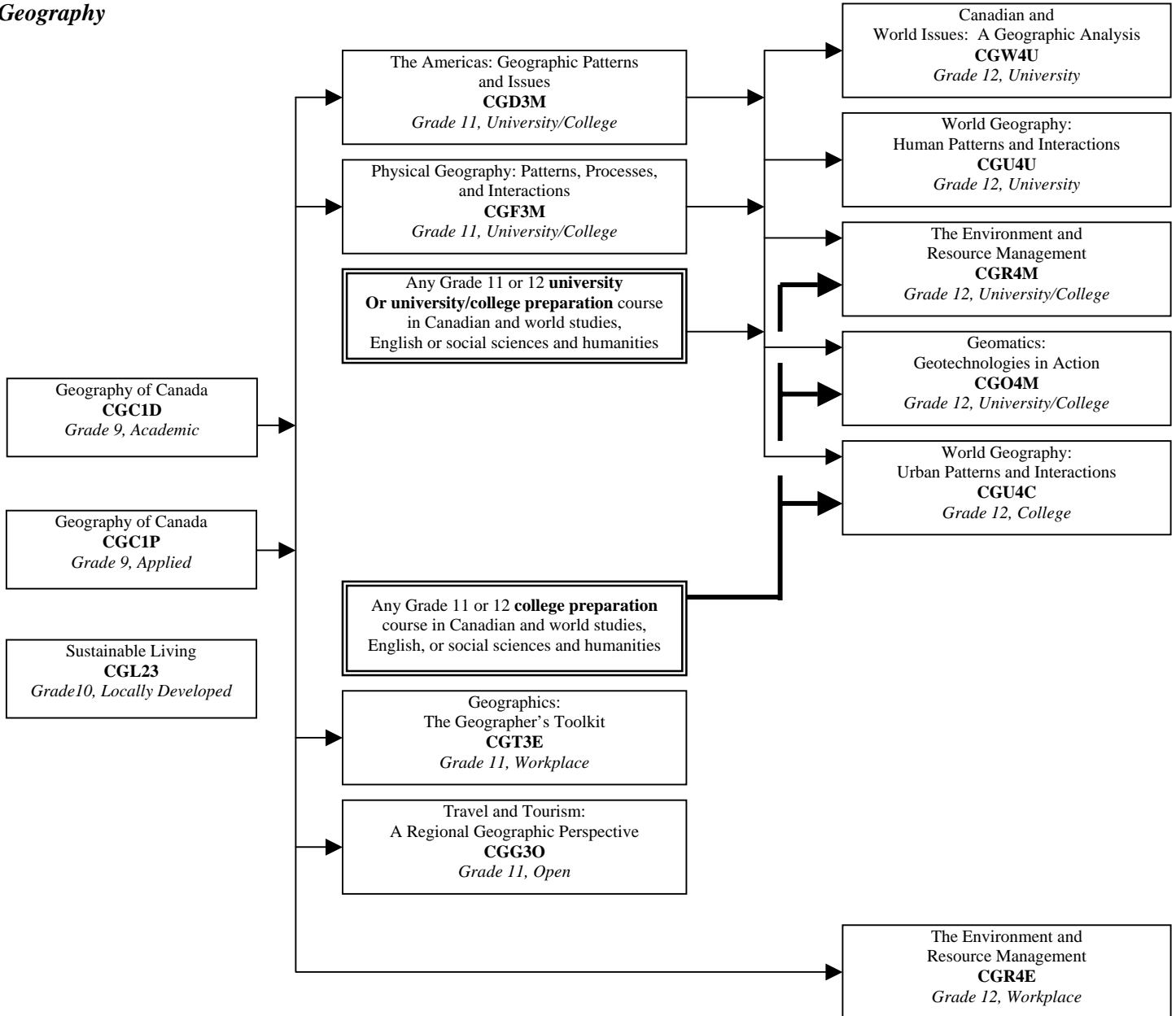
This course focuses on the development of leadership skills used in managing a successful business. Students will analyse the role of a leader in business with a focus on decision making, management of group dynamics, workplace stress and conflict, motivation of employees, and planning. Effective business communication skills, ethics, and social responsibility will be emphasized throughout the course. *Prerequisite: Any University, University/College, or College preparation course in business studies, English, or Canadian and world studies*

BOG4EI**Business Leadership: Becoming a Manager, Grade 12, Workplace Preparation**

This course helps students prepare for managerial positions in their future careers. Students will focus on the development of core skills required to become a successful manager, including operations management, inventory control, marketing, financial planning, scheduling, and communication. Students will also explore the management challenges of hiring, training, and motivating employees, and complying with legal requirements.

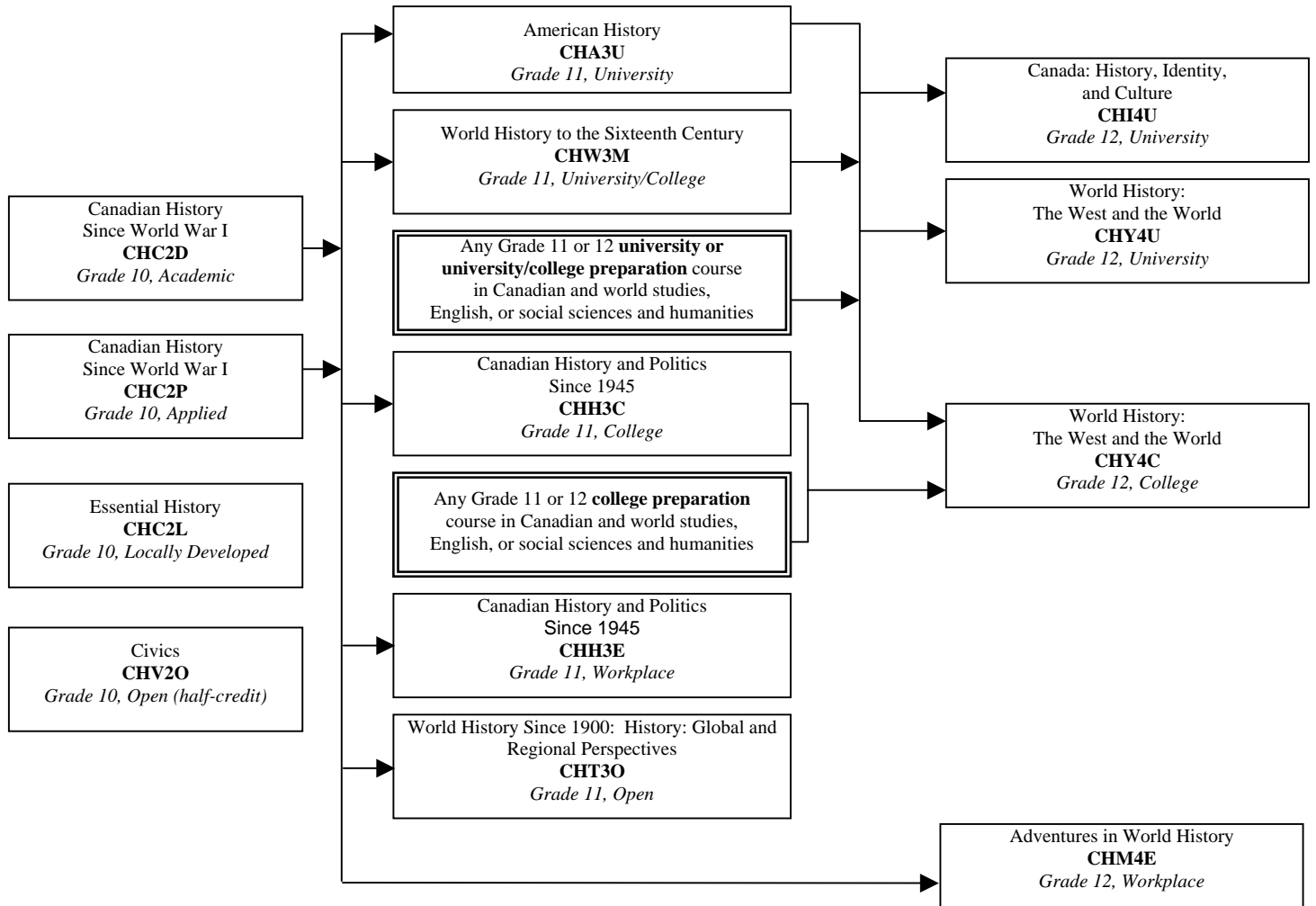
Prerequisite Charts for Canadian and World Studies

Geography



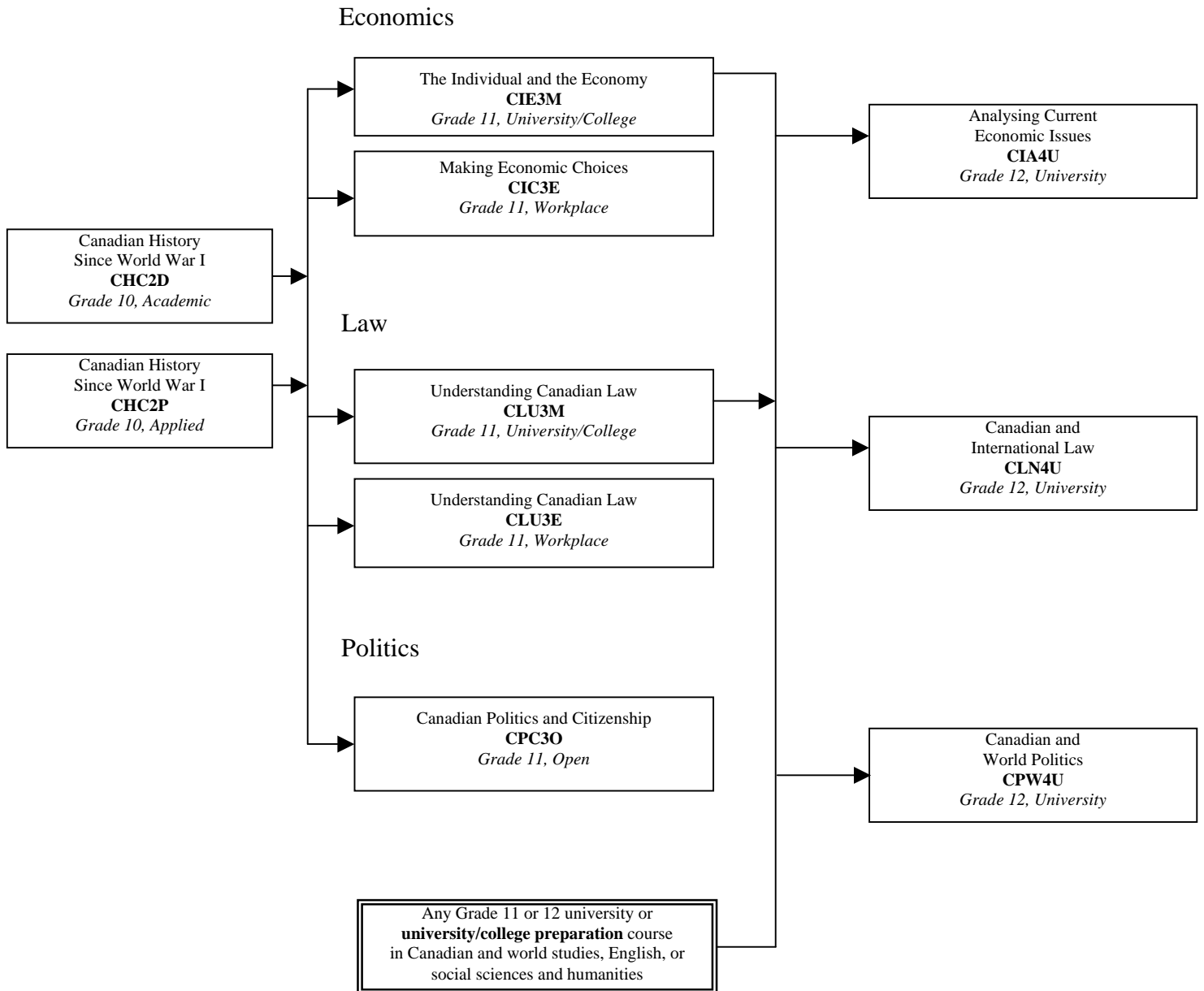
Prerequisites Chart for Canadian and World Studies

History



Prerequisite Charts for Canadian and World Studies

Economics/Law/Politics



Course Descriptions for Canadian and World Studies

Grade 9

CGC1PI, CGC1PZ

Geography of Canada, Grade 9, Applied

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

Code	Title	Additional Information
CGC1PI	Geography of Canada	
CGC1PZ	Geography of Canada	This course is for students enrolled in the ESL/ELD program.

CGC1DI, CGC1DF, CGC1DZ

Geography of Canada, Grade 9, Academic

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

Code	Title	Additional Information
CGC1DI	Geography of Canada	
CGC1DF	Geography of Canada	This course is offered with French as the language of instruction.
CGC1DZ	Geography of Canada	This course is for students enrolled in the ESL/ELD program.

Grade 10

CGL23I

Sustainable Living, Grade 10, Locally Developed

The sustainable living course explores the impact of our lifestyle on the sustainability of the earth's resources and degradation of the environment. The course will encourage the development of the interpersonal, decision-making and practical skills necessary for the student to make informed decisions concerning his/her daily activities and their impact on the environment. Students will examine their own lives to discern how they can make personal choices to promote sustainability. Students will explore the role of government in promoting environmentalism and sustainable living. This course will explore the nascent green economy and how students can position themselves to be active participants in a sustainable society.

CHC2DI, CHC2DF

Canadian History Since World War I, Grade 10, Academic

This course explores the local, national, and global forces that have shaped Canada's national identity from World War I to 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.

Code	Title	Additional Information
CHC2DI	Canadian History Since World War I	
CHC2DF	Canadian History Since World War I	This course is offered with French as the language of instruction.

Canadian and World Studies

CHC2PI, CHC2PZ

Canadian History Since World War I, Grade 10, Applied

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

Code	Title	Additional Information
CHC2PI	Canadian History Since World War I	
CHC2PZ	Canadian History Since World War I	This course is for students enrolled in the ESL/ELD program.

CHC2LI

Canadian History, Grade 10, Locally Developed

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

CHV2OH, CHV2OZ, CHV2OF

Civics, Grade 10, Open

This course explores what it means to be an informed, participating citizen in a democratic society. Students will learn about the elements of democracy in local, national, and global contexts, about political reactions to social change, and about political decision-making processes in Canada. They will explore their own and others' ideas about civics questions and learn how to think critically about public issues and react responsibly to them.

Code	Title	Additional Information
CHV2OH	Civics	This is 0.5 credit course.
CHV2OZ	Civics	This 0.5 credit course is for students enrolled in the ESL/ELD program.
CHV2OF	Civics	This 0.5 credit course is offered with French as the language of instruction.

Grade 11

CIC3EI

Making Economic Choices, Grade 11, Workplace Preparation

This course encourages students to examine the economic choices they make as consumers and contributors in a mixed economy. Students will become familiar with sources of economic information and indicators of economic performance, such as rates of inflation, interest, and unemployment. Students will gain practical experience of how to apply their knowledge to make informed economic decisions and improve their economic well-being. *Prerequisite: Grade 10 Canadian History Since World War I, Academic or Applied*

CIE3MI

The Individual and the Economy, Grade 11, University/College Preparation

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: Grade 10 Canadian History Since World War I, Academic or Applied*

CGD3MI**The Americas: Geographic Patterns and Issues, Grade 11, University/College Preparation**

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: Grade 9 Geography of Canada, Academic or Applied*

CGF3MI, CGF3MF**Physical Geography: Patterns, Processes, and Interactions, Grade 11, University/College Preparation**

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: Grade 9 Geography of Canada, Academic or Applied*

Code	Title	Additional Information
CGF3MI	Physical Geography: Patterns, Processes, and Interactions	
CGF3MF	Physical Geography: Patterns, Processes, and Interactions	This course is offered with French as the language of instruction.

CGT3EI**The Geographer's Toolkit, Grade 11, Workplace preparation**

This course focuses on giving students practical experiences with geotechnologies and related skills. Students will engage in image interpretation, desktop mapping, analysis using geographic information systems (GIS), use of the global positioning system (GPS), and data collection and management. Students will conduct fieldwork and explore applications and career opportunities in environmental, economic, and political contexts. Students will use a variety of communication tools and methods to present the results of their investigations. *Prerequisite: Grade 9 Geography of Canada, Academic or Applied*

CGG3OI**Travel and Tourism: A Regional Geographic Perspective, Grade 11, Open**

This course focuses on travel and tourism as a vehicle for the study of selected world regions. Using a variety of geotechnologies and inquiry and communication methods, students will conduct and present case studies that develop their understanding of the unique characteristics of selected world regions; the environmental, cultural, economic, and political factors that influence travel and tourism; and the impact of the travel industry on communities and environments around the world. *Prerequisite: Grade 9 Geography of Canada, Academic or Applied*

CHA3UI**American History, Grade 11, University Preparation,**

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: Grade 10 Canadian History Since World War I, Academic or Applied*

CHW3MI**World History to the Sixteenth Century, Grade 11, University/College Preparation**

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 present their conclusions. *Prerequisite: Grade 10 Canadian History Since World War I, Academic or Applied*

CHH3EI**Canadian History and Politics Since 1945, Grade 11, Workplace Preparation**

This course traces the most significant changes in Canadian society since 1945 and connects them to the issues facing the country today. Students will learn about the social, economic, and political forces that affect their lives, covering topics such as multiculturalism, labour relations, technological change, equity issues, and globalization. Through their investigation of the connections between historical developments and current issues, students will strengthen their critical-thinking and communication skills in preparation for the workplace. *Prerequisite: Grade 10 Canadian History Since World War I, Academic or Applied*

Canadian and World Studies

CHT3OI

World History Since 1900: Global and Regional Perspectives, Grade 11, Open

This course focuses on the major events and issues in world history from 1900 to the present. Students will investigate the causes and effects of global and regional conflicts and the responses of individuals and governments to social, economic, and political changes. Students will use critical-thinking and communication skills to formulate and test points of view, draw conclusions, and present their findings about the challenges that have faced and continue to face people in various parts of the world. *Prerequisite: Canadian History Since World War I, Grade 10, Academic or Applied*

CLU3MI

Understanding Canadian Law, Grade 11, University/College Preparation

This course explores Canadian law with a focus on legal issues that are relevant to people's everyday lives. Students will investigate fundamental legal concepts and processes to gain a practical understanding of Canada's legal system, including the criminal justice system. Students will use critical-thinking, inquiry, and communication skills to develop informed opinions on legal issues and apply this knowledge in a variety of ways and settings, including case analysis, legal research projects, mock trials, and debates.

Prerequisite: Grade 10 Canadian History Since World War I, Academic or Applied

CLU3EI

Understanding Canadian Law, Grade 11, Workplace Preparation

This course gives students practical information about legal issues that directly affect their lives. Students will examine the need for laws in society, the roots of Canada's legal system, the rights and freedoms that people in Canada enjoy, and the basic elements of criminal law and dispute resolution. Through experiences such as mock trials, debates, and case studies, students will apply inquiry and communication skills to develop and express opinions on legal topics of interest to them. *Prerequisite: Grade 10 Canadian History Since World War I, Academic or Applied*

CPC3OI

Canadian Politics and Citizenship, Grade 11, Open

This course explores the role of politics in people's lives and the importance of being an active citizen in a democratic society. Students will examine the ways in which individuals and groups participate in the political process, the ways in which they can influence political decision making and public policy, and the effectiveness of political systems and institutions in meeting societal needs. Students will apply inquiry and communication skills to analyse and report on political issues, events, and trends of interest to them. *Prerequisite: Grade 10 Canadian History Since World War I, Academic or Applied*

Grade 12

CIA4UI

Analysing Current Economic Issues, Grade 12, University Preparation

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 judgements, and present their findings. *Prerequisite: Any University or University/College preparation course in Canadian and World Studies, English, or Social Sciences and Humanities*

CGW4UI

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

This course examines the global challenges of creating a sustainable and equitable future, focusing on current issues that illustrate these challenges. Students will investigate a range of topics, including cultural, economic, and geopolitical relationships, regional disparities in the ability to meet basic human needs, and protection of the natural environment. Students will use geotechnologies and skills of geographic inquiry and analysis to develop and communicate balanced opinions about the complex issues facing Canada and a world that is interdependent and constantly changing. *Prerequisite: Any University or University/College preparation course in Canadian and World Studies, English, or Social Sciences and Humanities*

CGU4UI

World Geography: Human Patterns and Interactions, Grade 12, University Preparation

This course examines how humans interact with their natural environments and with each other. Students will study the influence of spatial, political, economic, and social factors on settlement patterns, human migration, cultural change, globalization, and environmental trends. Students will use geotechnologies and skills of geographic inquiry and analysis to extend their knowledge of human geography, identify and explain current trends and patterns, and predict future ones. *Prerequisite: Any University or University/College preparation course in Canadian and World Studies, English, or Social Sciences and Humanities*

CGR4MI**The Environment and Resource Management, Grade 12, University/College, Preparation**

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*

CGO4MI**Geomatics: Geotechnologies in Action, Grade 12, University/College Preparation**

This course gives students experience with using geotechnologies to develop solutions to real-world problems involving physical and human geography. Students will extend their knowledge of geomatics in the areas of cartography, geographic information systems (GIS), the global positioning system (GPS), and remote sensing. Students will develop critical-thinking and communication skills as they apply geotechnologies and geographic inquiry methods to devise and present ways of improving conditions for people and the environment. *Prerequisite: Any University, University/College, or College preparation course in Canadian and World Studies, English, or Social Sciences and Humanities*

CGU4CI**World Geography: Urban Patterns and Interactions, Grade 12, College Preparation**

This course examines cities around the world and the social, political, cultural, environmental, and economic factors that shape them. Students will study urban structures and systems, the impact of migrations on cities, and the impact of cities on the environment. Students will use geotechnologies and apply geographic concepts and inquiry methods to analyse issues and problems related to urban development and to formulate potential solutions. *Prerequisite: Any University, University/College, or College preparation course in Canadian and World Studies, English, or Social Sciences and Humanities*

CGR4EI**The Environment and Resource Management, Grade 12, Workplace Preparation**

This course examines the influence of human activities on the natural environment. Students will study ecosystem structures and processes, the ecological impact of human activities, and methods of responsible resource management. Students will apply geotechnologies and geographic inquiry methods to develop and present practical solutions to environmental and resource-management issues. In the process, students' problem-solving and communication skills will be enhanced in preparation for careers and the workplace. *Prerequisite: Grade 9 Geography of Canada, Academic or Applied*

CHI4UI**Canada: History, Identity, and Culture, Grade 12, University Preparation**

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*

CHY4CI**World History: The West and the World, Grade 12, College Preparation**

This course explores the history of the world since the sixteenth century, emphasizing the interaction between the emerging West and other regions of the world. Students will learn about a variety of economic, social, and political systems and the changes they have undergone over time. Students will apply their developing skills of historical inquiry to understand and communicate ideas about the forces that have formed our modern world. *Prerequisite: Any University or University/College preparation course in Canadian and World Studies, English, or Social Sciences and Humanities*

CHY4UI**World History: The West and the World, Grade 12, University Preparation**

This course investigates the major trends in Western civilization and world history from the sixteenth century to the present. Students will learn about the interaction between the emerging West and other regions of the world and about the development of modern social, political, and economic systems. They will use critical-thinking and communication skills to investigate the historical roots of contemporary issues and present their conclusions. *Prerequisite: Any University or University/College preparation course in Canadian and World Studies, English, or Social Sciences and Humanities*

Canadian and World Studies

CHM4EI

Adventures in World History, Grade 12, Workplace Preparation

This course explores a variety of human experiences in world history from earliest times to the present. Students will learn about a wide range of societies and cultures, examining such things as systems of government, technological developments, work, art, and religion. Students will apply methods of research and inquiry to examine human societies in many different times and places and to communicate points of view about their findings. *Prerequisite: Grade 10 Canadian History Since World War I, Academic or Applied*

CLN4UI

Canadian and International Law, Grade 12, University Preparation

This course examines elements of Canadian and international law in social, political, and global contexts. Students will study the historical and philosophical sources of law and the principles and practices of international law and will learn to relate them to issues in Canadian society and the wider world. Students will use critical-thinking and communication skills to analyse legal issues, conduct independent research, and present the results of their inquiries in a variety of ways. *Prerequisite: Any University or University/College preparation course in Canadian and World Studies, English, or Social Sciences and Humanities*

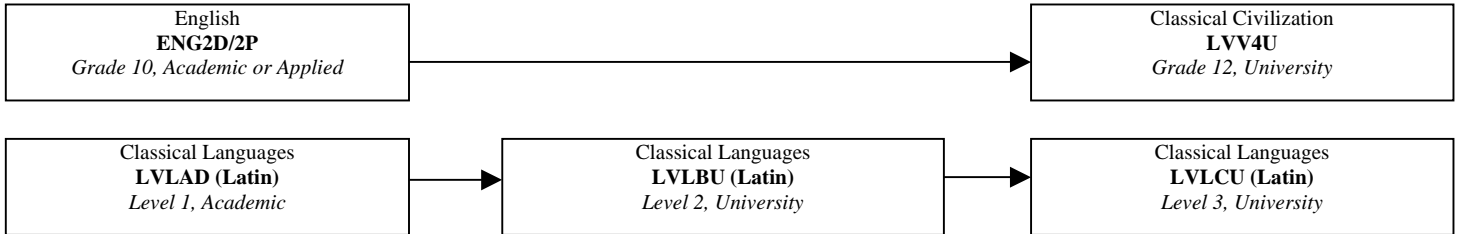
CPW4UI

Canadian and World Politics, Grade 12, University Preparation

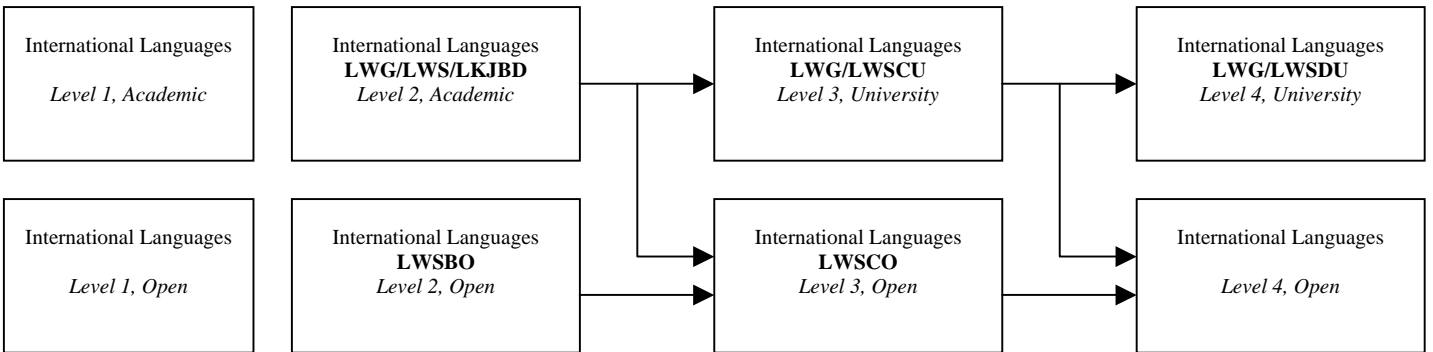
This course examines Canadian and world politics from a variety of perspectives. Students will investigate the ways in which individuals, groups, and states work to influence domestic and world events, the role of political ideologies in national and international politics, and the dynamics of international 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*

Prerequisite Charts for Classical Studies and International Languages

Classical Studies



International Languages



Course Descriptions for Classical Studies and International Languages

LVLADI

Classical Languages – Latin, Level 1, Academic

This course introduces students to the achievements of the classical world through the study of Latin or ancient Greek. Students will learn vocabulary and grammar essential for reading and translating classical texts. English is the language of instruction. Through a variety of enrichment activities, such as presentations, debates, and dialogues, students will explore such aspects of life in the ancient world as trade, commerce, education, entertainment, and social customs while improving their language skills.

LVLBUI

Classical Languages – Latin, Level 2, University Preparation

This course provides students with opportunities to continue their exploration of the achievements of the ancient world through the study of Latin or ancient Greek. Students will read and translate more complex passages in the classical language and will learn the vocabulary and grammar essential for these activities. English is the language of instruction. Through a variety of methods, such as dramatizations, presentations, and hands-on activities, students will investigate aspects of the culture and beliefs of the ancient world, including science, religion, and customs. *Prerequisite: Level 1 Classical Languages, Academic*

LVLGUI

Classical Languages – Latin, Level 3, University Preparation

This course provides students with opportunities to further develop their knowledge of the achievements of the ancient world through the study of Latin or ancient Greek. Students will read and translate a broad selection of classical prose and poetry and will learn the vocabulary and grammar essential for these activities. English is the language of instruction. Through a variety of enrichment activities, such as contests, seminars, and re-enactments, students will explore elements of the civilization of the ancient world, such as engineering, architecture, politics, and literature. *Prerequisite: Level 2 Classical Languages, University*

LVV4UI

Classical Civilization, Grade 12, University Preparation

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

Prerequisite: English, Grade 10, Academic or Applied

LIPBDI, LWGBDI, LWSBDI, LKJBDI

International Languages, Level 2, Academic

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.

Code	Title	Additional Information
LIPBDI	Punjabi	
LWGBDI	German	
LWSBDI	Spanish	
LKJBDI	Japanese	

LWSBOI

International Languages – Spanish, Level 2, Open

This course provides students with opportunities to further develop their oral communication skills in the language of study, increase their confidence in using the language in practical situations, and continue to investigate related career opportunities. Students will be involved in activities that promote the use of the language in real-life situations. They will also continue their exploration of the culture of countries where the language under study is spoken. 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.

LWSCOI

International Languages – Spanish, Level 3, Open

This course provides students with opportunities to further develop their communication skills in the international language and to increase their confidence in applying them in a variety of practical situations, including contexts related to future employment. Students will engage in a variety of activities and use resources that will allow them to use the language in various real-life situations. They will also continue to explore aspects of the culture of countries where the language is spoken, and investigate careers that require facility in the language. *Prerequisite: International Languages, Level 2, Academic or Open*

LWGCUI, LWSCUI

International Languages, Level 3, University Preparation

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: Level 2 International Languages, Academic*

Code	Title	Additional Information
LWGCUI	German	
LWSCUI	Spanish	

LWGDUI, LWSDUI

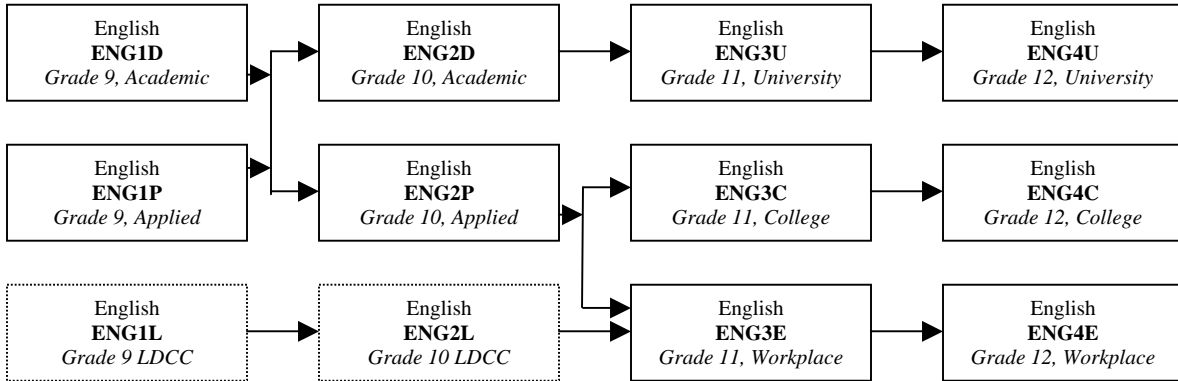
International Languages, Level 4, University Preparation

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 the 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: Level 3 International Languages, University*

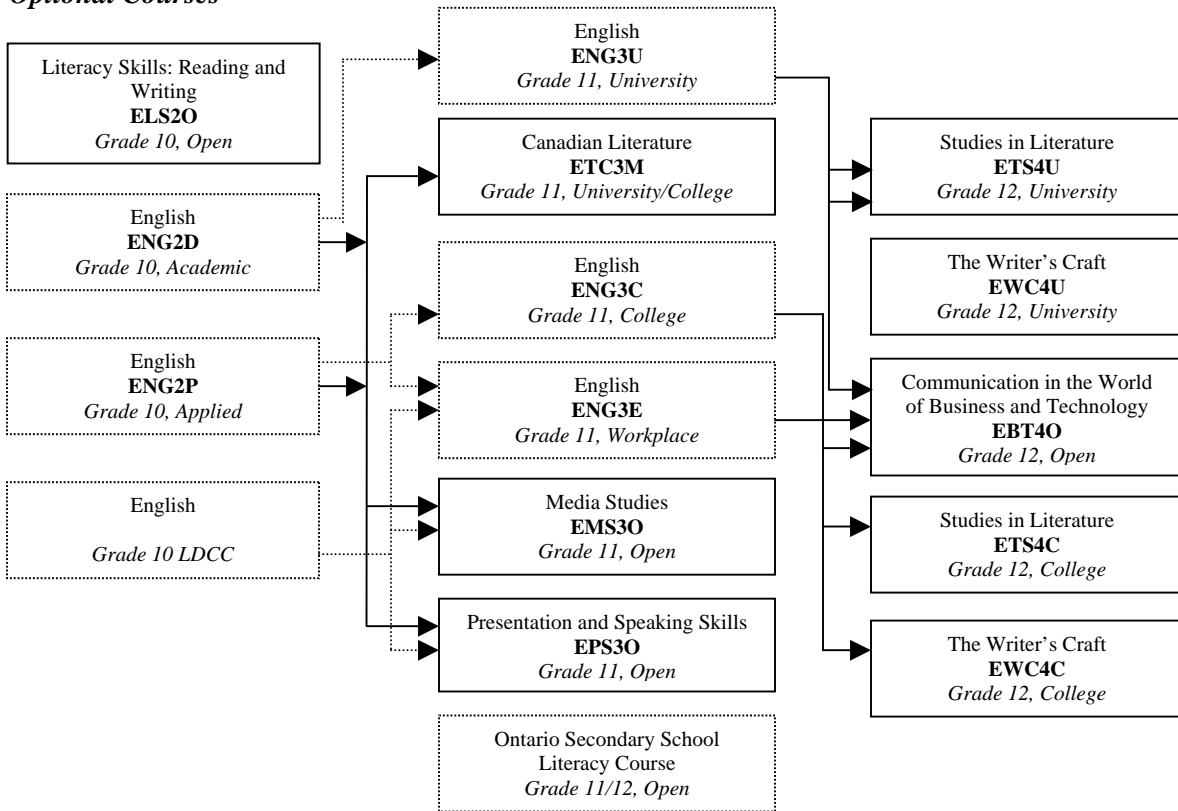
Code	Title	Additional Information
LWGDUI	German	
LWSDUI	Spanish	

Prerequisite Charts for English

Compulsory Courses



Optional Courses



Course Descriptions for English

Grade 9

ENG1LI

Essential English, Grade 9, Locally Developed

This course provides foundational literacy and communication skills to prepare students for success in their daily lives, in the workplace, and in the English Grade 11 Workplace Preparation course. The course is organized by strands that develop listening and talking skills, reading and viewing skills, and writing skills. In all strands, the focus is on developing foundational literacy skills and in using language clearly and accurately in a variety of authentic contexts. Students develop strategies and put into practice the processes involved in talking, listening, reading, viewing, writing, and thinking, and reflect regularly upon their growth in these areas.

ENG1PI

English, Grade 9, Applied

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

ENG1DI

English, Grade 9, Academic

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

Grade 10

ENG2LI

Essential English, Grade 10, Locally Developed

In this course, students focus on extending their literacy and communication skills to prepare for success in their daily lives, in the workplace, in the English Grade 11 Workplace Preparation course, or in the English: Contemporary Aboriginal Voices, Grade 11 Workplace Preparation course. The course is organized by strands that extend listening and talking skills, reading and viewing skills, and writing skills. In all strands, the focus is on refining foundational literacy skills and in using language clearly and accurately in a variety of authentic contexts. Students build on their strategies and engage in the processes involved in talking, listening, reading, viewing, writing, and thinking, and reflect regularly upon their growth in these areas. *Prerequisite: A Grade 9 English credit*

ENG2PI

English, Grade 10, Applied

This course is designed to extend the range of oral communication, reading, writing, and media literacy skills that students need for success in secondary school and daily life. Students will study and create a variety of informational, literary, and graphic texts. An important focus will be on the consolidation of strategies and processes that help students interpret texts and communicate clearly and effectively. This course is intended to prepare students for the compulsory Grade 11 college or workplace preparation course.

Prerequisite: English, Grade 9, Academic or Applied

ENG2DI

English, Grade 10, Academic

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

ELS2OI

Literacy Skills, Grade 10, Open

This course is designed to help students strengthen essential reading and writing skills, providing them with the extra literacy support they need in order to graduate. Students will read informational, graphic, and literary texts, with a focus on locating information, identifying main ideas and supporting details, building vocabulary, and consolidating skills in the application of key comprehension strategies. The course will also help students develop core learning strategies.

English

Grade 11

ENG3CI

English, Grade 11, College Preparation

This course emphasizes the development of literacy, communication, and critical and creative thinking skills necessary for success in academic and daily life. Students will study the content, form, and style of a variety of informational and graphic texts, as well as literary texts from Canada and other countries, and create oral, written, and media texts in a variety of forms for practical and academic purposes. An important focus will be on using language with precision and clarity. The course is intended to prepare students for the compulsory Grade 12 college preparation course. *Prerequisite: English, Grade 10, Applied*

ENG3EI

English, Grade 11, Workplace Preparation

This course emphasizes the development of literacy, communication, and critical and creative thinking skills necessary for success in the workplace and in daily life. Students will study the content, form, and style of a variety of contemporary informational, graphic, and literary texts; and create oral, written, and media texts in a variety of forms for practical purposes. An important focus will be on using language clearly and accurately in a variety of formal and informal contexts. The course is intended to prepare students for the compulsory Grade 12 workplace preparation course. *Prerequisite: English, Grade 10, Applied or Essential English, Grade 10, Locally Developed*

ENG3UI

English, Grade 11, University Preparation

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

ETC3MI

Canadian Literature, Grade 11, University/College Preparation

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*

EMS3OI, EMS3OF

Media Studies, Grade 11, Open

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 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 judgement, and skills in viewing, representing, listening, speaking, reading, and writing. *Prerequisite: English, Grade 10, Academic or Applied*

Code	Title	Additional Information
EMS3OI	Media Studies	
EMS3OF	Media Studies	This course is offered with French as the language of instruction.

EPS3OI

Presentation and Speaking Skills, Grade 11, Open

This course emphasizes the knowledge and skills required to plan and make effective presentations and to speak effectively in both formal and informal contexts, using such forms as reports, speeches, debates, panel discussions, storytelling, recitations, interviews, and multimedia presentations. Students will research and analyse the content and characteristics of convincing speeches and the techniques of effective speakers; design and rehearse presentations for a variety of purposes and audiences; select and use visual and technological aids to enhance their message; and assess the effectiveness of their own and others' presentations. *Prerequisite: English, Grade 10, Academic or Applied*

Grade 12

ENG4CI

English, Grade 12, College Preparation

This course emphasizes the consolidation of literacy, communication, and critical and creative thinking skills necessary for success in academic and daily life. Students will analyse a variety of informational and graphic texts, as well as literary texts from various countries and cultures, and create oral, written, and media texts in a variety of forms for practical and academic purposes. An important focus will be on using language with precision and clarity and developing greater control in writing. The course is intended to prepare students for college or the workplace. *Prerequisite: English, Grade 11, College Preparation*

ENG4EI

English, Grade 12, Workplace Preparation

This course emphasizes the consolidation of literacy, communication, and critical and creative thinking skills necessary for success in the workplace and in daily life. Students will analyse informational, graphic, and literary texts and create oral, written, and media texts in a variety of forms for workplace-related and practical purposes. An important focus will be on using language accurately and organizing ideas and information coherently. The course is intended to prepare students for the workplace and active citizenship.

Prerequisite: English, Grade 11, Workplace Preparation

ENG4UI

English, Grade 12, University Preparation

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

ETS4UI

Studies in Literature, Grade 12, University Preparation

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*

EWC4UI

The Writer's Craft, Grade 12, University Preparation

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

ETS4CI

Studies in Literature, Grade 12, College Preparation

This course is for students with a special interest in literature. The course may focus on themes, genres, time periods, or countries. Students will study a variety of forms and stylistic elements of literary texts and respond personally, critically, and creatively to them. They will also investigate critical interpretations and complete an independent study project. *Prerequisite: English, Grade 11, College Preparation*

EWC4CI

The Writer's Craft, Grade 12, College Preparation

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

Prerequisite: English, Grade 11, College Preparation

English

EBT4OI

Communication in the World of Business and Technology, Grade 12, Open

This course emphasizes practical writing and communication skills that are needed in the world of business and technology. Students will analyse the characteristics of effective models of business and technical communications; gather information to write reports, business letters, memos, manuals, instructions, and brochures; and integrate graphics and text, using technology appropriately for formatting and special effects. They will also make a number of oral and visual presentations. *Prerequisite: English, Grade 11, University Preparation, College Preparation, or Workplace Preparation*

OLC4OI

Ontario Secondary School Literacy Course, Grade 12, Open

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

Eligibility requirement: Students who have been unsuccessful at least once on the Ontario Secondary School Literacy Test are eligible to take the course.

Course Descriptions for English As a Second Language and English Literacy Development

ELDAOI

English Literacy Development, Level 1, Open

This course is intended for English language learners who have had limited access to schooling and thus have significant gaps in their first-language literacy skills. Students will use basic listening and speaking skills to communicate in English for everyday purposes; develop readiness skills for reading and writing; begin to read highly structured texts for everyday and school-related purposes; and use basic English language structures and sentence patterns in speaking and writing. The course will also help students become familiar with school routines and begin to adapt to their new lives in Canada.

ELDBOI

English Literacy Development, Level 2, Open

This course is intended for English language learners who have had limited access to schooling and thus have gaps in their first-language literacy skills. Students will use their developing listening and speaking skills to communicate in English; develop reading strategies to understand a variety of simple texts; produce simple forms of writing; apply increasing knowledge of English grammatical structures; expand their vocabulary; and develop fundamental study skills. The course will also provide opportunities for students to use school and community resources and build their cultural knowledge of Canada. *Prerequisite: English Literacy Development, Level 1, or equivalent*

ELDCOI

English Literacy Development, Level 3, Open

This course builds on students' growing literacy and language skills and extends their ability to communicate in English about familiar and school-related topics. Students will improve their literacy skills through a variety of contextualized and supported reading and writing tasks; distinguish between fact and opinion in short written and oral texts; complete short guided-research projects; make brief oral presentations; and engage in a variety of cooperative learning activities. The course will also enable students to further develop their study skills and personal-management strategies, and broaden their understanding of Canadian culture and citizenship.

Prerequisite: English Literacy Development, Level 2, or equivalent

ELDDOI

English Literacy Development, Level 4, Open

This course extends students' literacy skills and ability to apply learning strategies effectively, and teaches them how to use community resources to enhance lifelong learning. Students will engage in a variety of guided reading, writing, and viewing tasks; use media and community resources to complete guided-research projects; and communicate for a variety of academic and everyday purposes with increasing accuracy and fluency. This course further develops the critical thinking skills students will need to participate in Canadian society as informed citizens. *Prerequisite: English Literacy Development, Level 3, or equivalent*

ELDEOI

English Literacy Development, Level 5, Open

This course provides students with skills and strategies that will allow them to continue their education successfully and pursue pathways to employment that may involve apprenticeship and/or cooperative education programs. Students will develop greater independence in reading and writing, as well as in interpreting media texts; use a range of media and community resources; and communicate both orally and in writing on a variety of topics. This course also expands the critical thinking skills students will need in order to contribute to Canadian society as informed citizens. *Prerequisite: English Literacy Development, Level 4, or equivalent*

ESLAOI

English as a Second Language, Level 1, Open

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

ESLBOI

English as a Second Language, Level 2, Open

This course expands 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; link English sentences to compose paragraphs; read a variety of texts designed or adapted for English language learners; and expand their knowledge of English grammatical structures and sentence patterns. The course also supports students' continuing adaptation to the Ontario school system by expanding their cultural knowledge of their new province and country. *Prerequisite: English as a Second Language, Level 1, or equivalent*

Course Descriptions for English As a Second Language and English Literacy Development

ESLCOI

English as a Second Language, Level 3, Open

This course extends students' skills in listening, speaking, reading, and writing in English for a variety of everyday and academic purposes. Students will make short classroom presentations; read a variety of adapted and original texts in English; and write using a variety of forms of text. Students will also expand their academic vocabulary and their study skills to facilitate the transition to the mainstream school program. This course also introduces students to the rights and responsibilities inherent in Canadian citizenship, and to a variety of current Canadian issues. *Prerequisite: English as a Second Language, Level 2, or equivalent*

ESLDOI

English as a Second Language, Level 4, Open

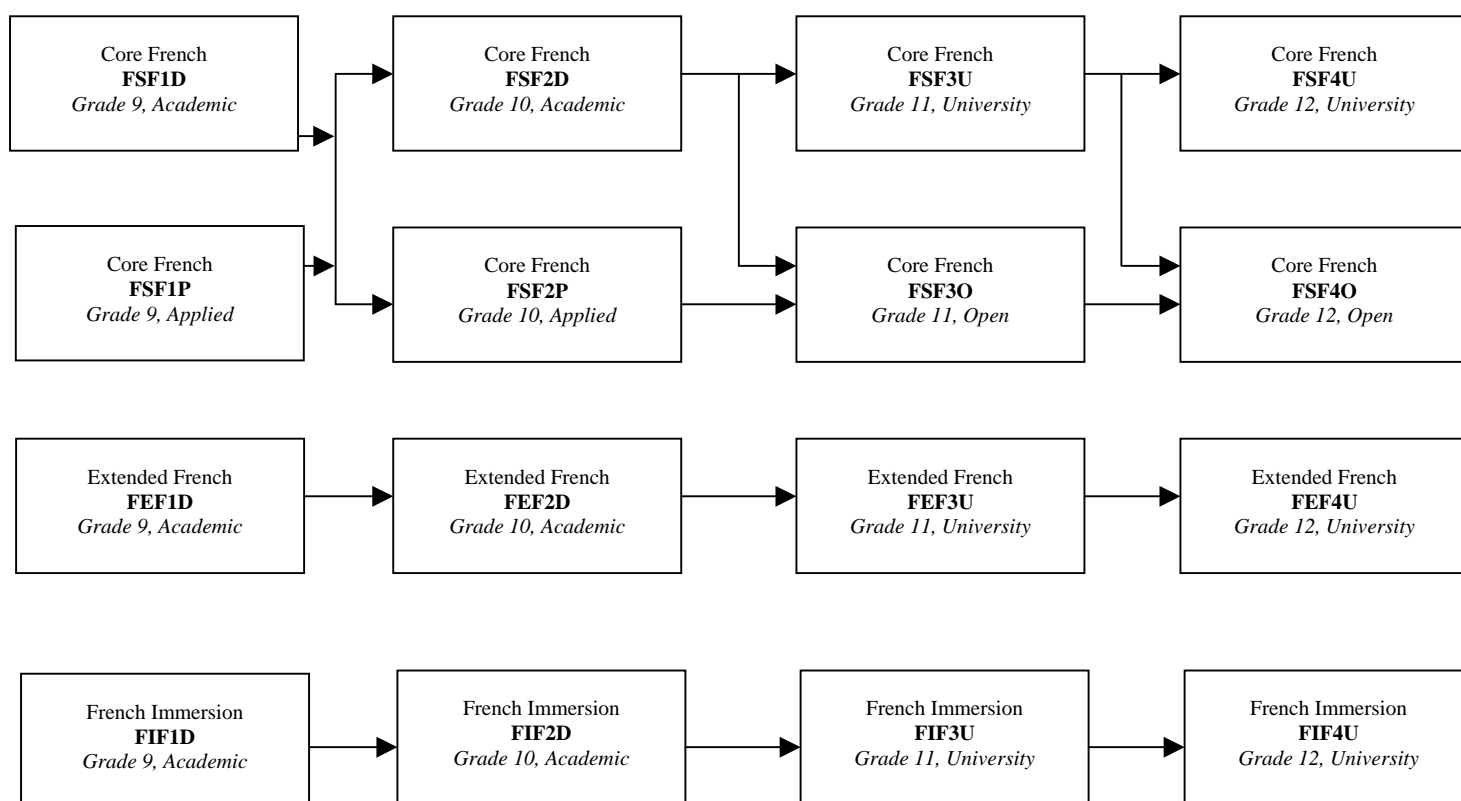
This course prepares students to use English with increasing fluency and accuracy in classroom and social situations and to participate in Canadian society as informed citizens. Students will develop the reading, writing, and oral presentation skills required for success in all school subjects. They will study and interpret a variety of grade-level texts; extend listening and speaking skills through participation in discussions and seminars; write narratives, articles, and summaries in English; and respond critically to various print and media texts. *Prerequisite: English as a Second Language, Level 3, or equivalent*

ESLEOI

English as a Second Language, Level 5, Open

This course provides students with the skills and strategies they need to make the transition to college and university preparation courses in English and other secondary school disciplines. Students will be encouraged to develop independence in a range of academic tasks. They will participate in debates and lead classroom workshops; read and interpret literary works and academic texts; write essays, narratives, and reports; and apply a range of learning strategies and research skills effectively. Students will further develop their ability to respond critically to print and media texts. *Prerequisite: English as a Second Language, Level 4, or equivalent*

Prerequisite Chart for French As a Second Language



Course Descriptions for French As a Second Language

Grade 9

FSF1PI, FSF1PZ

Core French, Grade 9, Applied

This course emphasizes the further development of oral communication skills, using the theme of media; the development of oral communication skills will be integrated with the development of reading and writing skills. Students will expand their ability to understand and speak French through conversations, discussions, and presentations. They will also read media-related short stories, articles, poems, and songs and write brief descriptions, letters, dialogues, and invitations.

Code	Title	Additional Information
FSF1PI	Core French	
FSF1PZ	Core French	This course is for students enrolled in the ESL/ELD program.

FSF1DI

Core French, Grade 9, Academic

This course emphasizes the further development of oral communication, reading, and writing skills. Students will build on and apply their knowledge of French while exploring a variety of themes, such as relationships, 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.

FEF1DI

Extended French, Grade 9, Academic

This course emphasizes the expansion of students' oral communication, reading, and writing skills through the study of themes that reflect their interests. Students will apply their knowledge of French in discussions, debates, dramatizations, and oral presentations. Students will read and write in a variety of genres (e.g., poems, articles, brochures) and study at least one short novel intended for a French-speaking audience.

French as a Second Language

FIF1DI

French Immersion, Grade 9, Academic

This course enables students to enhance their knowledge of the French language and to further develop their language skills through the study of twentieth-century North American francophone literature and culture. Students will participate in oral communication, reading, and writing activities as they study an authentic novel and selected authentic poems, legends, songs, films, and newspaper articles from French-speaking parts of North America. *Prerequisite: Minimum of 3800 hours of instruction in French, or equivalent*

Grade 10

FSF2PI

Core French, Grade 10, Applied

This course emphasizes the further development of oral communication, reading, and writing skills using a broad-based theme such as adolescence. Students will expand their knowledge of French by studying a series of theme-related topics, such as students' rights and responsibilities, relationships with peers and adults, and part-time jobs. *Prerequisite: Grade 9 Core French, Academic or Applied*

FSF2DI

Core French, Grade 10, Academic

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

FEF2DI

Extended French, Grade 10, Academic

This course emphasizes the continued development and refinement of students' oral communication, reading, and writing skills as they explore a variety of themes. Students will expand their knowledge and appreciation of francophone culture through the study and interpretation of novels, poems, and plays intended for a French-speaking audience. *Prerequisite: Grade 9 Extended French or French Immersion*

FIF2DI

French Immersion, Grade 10, Academic

This course enables students to increase their knowledge of the French language and to further develop their language skills through the study of twentieth-century European francophone literature and culture. Students will participate in oral communication, reading, and writing activities based on a variety of French literary and media works. They will study at least one novel and a selection of poems, short stories, films, plays, and newspaper and magazine articles. *Prerequisite: French Immersion, Grade 9, Academic*

Grade 11

FSF3OI

Core French, Grade 11, Open

This course draws on a broad theme, such as leisure activities, to develop oral communication, reading, and writing skills. Students will give presentations, read a selection of short stories and articles, and produce a variety of written assignments. The use of correct grammar and appropriate language conventions in both spoken and written French will be emphasized throughout the course. *Prerequisite: Grade 10 Core French, Applied or Academic*

FSF3UI

Core French, Grade 11, University Preparation

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

FEF3UI

Extended French, Grade 11, University Preparation

This course focuses on developing French-language skills through the study of Canadian francophone authors. Students will analyse works in a variety of genres and will produce various types of 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: Grade 10 Extended French*

FIF3UI

French Immersion, Grade 11, University Preparation

This course develops knowledge and language skills through the study of francophone literature and culture from around the world. Students will study novels, plays, poems, short stories, films, and non-fiction works and produce written assignments in a variety of forms, including critiques and précis. They will also write a formal research essay. The use of correct grammar and appropriate language conventions in both spoken and written French will be emphasized throughout the course. *Prerequisite: French Immersion, Grade 10, Academic*

Grade 12

FSF4OI

Core French, Grade 12, Open

This course focuses on the development of French-language skills that students can use in the business world or the workplace. Students will give presentations, read a selection of materials appropriate to the topics under study, and produce a variety of written assignments. The use of correct grammar and appropriate language conventions in both spoken and written French will be emphasized throughout the course. *Prerequisite: Grade 11 Core French, Open or University*

FSF4UI

Core French, Grade 12, University Preparation

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

FEF4UI

Extended French, Grade 12, University Preparation

This course emphasizes the refinement of French-language skills through the study of Canadian and international francophone literature. Students will interpret literary works, produce written assignments in a variety of genres, and conduct research on a major topic for a written and oral presentation. The use of correct grammar and appropriate language conventions in both spoken and written French will be emphasized throughout the course. *Prerequisite: Grade 11 Extended French*

FIF4UI

French Immersion, Grade 12, University Preparation

This course provides for extensive study of French literature and culture from the Middle Ages to the present. Students will study novels, plays, poems, films, and non-fiction works produced in various historical periods, and will write a formal research paper. The use of correct grammar and appropriate language conventions in both spoken and written French will be emphasized throughout the course. *Prerequisite: French Immersion, Grade 11, University Preparation*

Prerequisite Chart for Guidance and Career Education

Learning Strategies 1: Skills for Success in Secondary School GLS/GLE10 Grade 9, Open	Career Studies GLC20 <i>(half-credit) (compulsory)</i> Grade 10, Open	Designing Your Future GWL30 Grade 11, Open	Advanced Learning Strategies: Skills for Success After Secondary School GLS40 Grade 12, Open
Discovering the Workplace GLD20 Grade 10, Open	Leadership and Peer Support GPP30 Grade 11, Open	Navigating the Workplace GLN40 Grade12, Open	
Learning Strategies 1: Skills for Success in Secondary School GLE20 Grade 10, Open	Advanced Learning Strategies: Skills for Success After Secondary School GLE30 Grade 11, Open	Advanced Learning Strategies: Skills for Success After Secondary School GLE40 Grade 12, Open	

Course Descriptions for Guidance and Career Education

Grade 9

GLE1OI, GLE1OH, GLE1OK

Learning Strategies 1: Skills for Success in Secondary School, Grade 9, Open

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

Prerequisite: *Recommendation of Principal*

Code	Title	Additional Information
GLE1OI	Learning Strategies 1: Skills for Success in Secondary School	
GLE1OH	Learning Strategies 1: Skills for Success in Secondary School – Part 1	This is a 0.5 credit course.
GLE1OK	Learning Strategies 1: Skills for Success in Secondary School – Part 2	This is a 0.5 credit course.

GLS1OI

Learning Strategies 1: Skills for Success in Secondary School, Grade 9, Open

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

Grade 10

GLC2OH, GLC2OZ, GLC2OF Career Studies, Grade 10, Open

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

Code	Title	Additional Information
GLC2OH	Career Studies	This is a 0.5 credit course.
GLC2OZ	Career Studies	This 0.5 credit course is for students enrolled in the ESL/ELD programs.
GLC2OF	Career Studies	This 0.5 credit course is offered with French as the language of instruction.

GLE2OI, GLE2OH, GLE2OK Open Learning Strategies 1: Skills for Success in Secondary School Grade 10, Open

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

Prerequisite: *Recommendation of Principal*

Code	Title	Additional Information
GLE2OI	Open Learning Strategies 1: Skills for Success in Secondary School	
GLE2OH	Open Learning Strategies 1: Skills for Success in Secondary School - Part 1	This is a 0.5 credit course.
GLE2OK	Open Learning Strategies 1: Skills for Success in Secondary School - Part 2	This is a 0.5 credit course.

GLD2OI

Discovering the Workplace, Grade 10, Open

This course provides students with opportunities to discover and develop the workplace essential skills and work habits required to be successfully employed. Students will develop an understanding of work through practical hands-on experiences in the school and in the community, using real workplace materials. They investigate occupations of interest through experiential learning opportunities, such as worksite visits, job shadowing, work experience, simulations, and entrepreneurial projects. This course helps students make plans for continued learning and work.

Grade 11

GWL3OI, GWL3ON Designing Your Future, Grade 11, Open

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.

Code	Title	Additional Information
GWL3OI	Designing Your Future	
GWL3ON	Designing Your Future	This course is intended for students who have already taken GWL3OI. This course has NO credit value.

Guidance and Career Education

GPP3OI, GPP3OX, GPP3OY

Leadership and Peer Support, Grade 11, Open

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

Code	Title	Additional Information
GPP3OI	Leadership and Peer Support	
GPP3OX	Leadership and Peer Support	This course emphasizes community based leadership and peer support.
GPP3OY	Leadership and Peer Support	This course emphasizes mentoring skills and support strategies.

GLE3OI

Advanced Learning Strategies 1: Skills for Success After Secondary School, Grade 11, Open

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: Recommendation of Principal*

Grade 12

GLS4OI

Advanced Learning Strategies: Skills for Success After Secondary School, Grade 12, Open

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.

GLE4OI

Advanced Learning Strategies 2: Skills for Success After Secondary School, Grade 12, Open

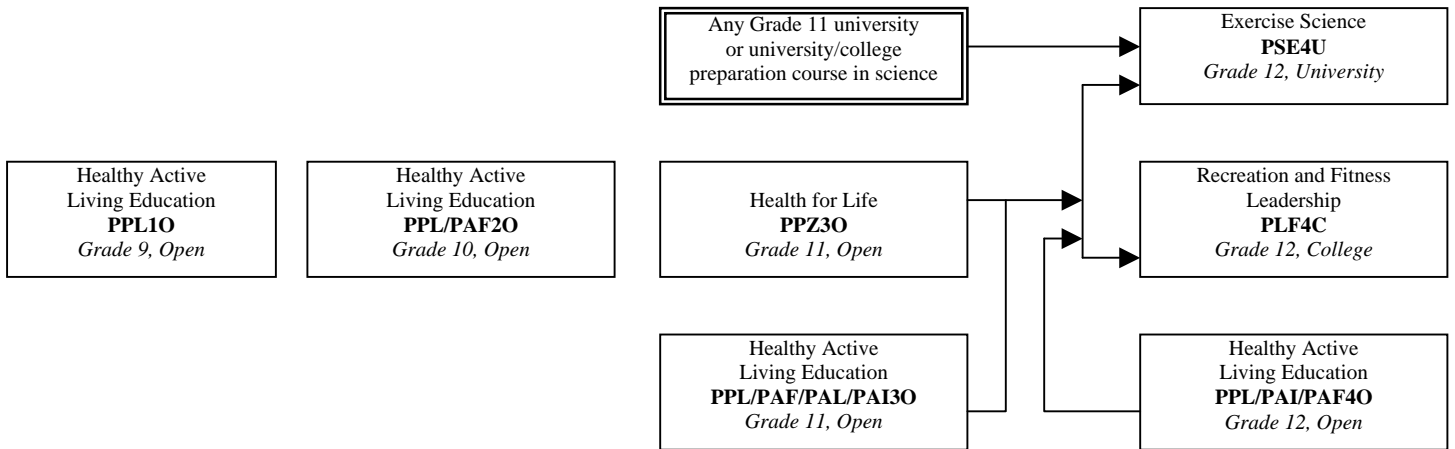
This course improves students' learning and personal management skills, preparing them to make successful transitions to work, training, and/or postsecondary education destinations. Students will assess their learning abilities and use literacy, numeracy, and research skills and personal management techniques 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: Recommendation of Principal*

GLN4OI

Navigating the Workplace, Grade 12, Open

This course provides students with opportunities to develop the workplace essential skills and work habits required for success in all types of workplaces. Students will explore occupations and careers of interest through participation in real workplace experiences. They will make plans for continued learning and work, work with others to design learning experiences, and investigate the resources and support required to make a smooth transition to their postsecondary destination.

Prerequisite Chart for Health and Physical Education



Course Descriptions for Health and Physical Education

- Note:** 1) A maximum of one credit may be earned at the grade 10 level.
 2) A maximum of two credits may be earned at the grade 11 level, one of which must be PPZ.

Grade 9

PPL10X, PPL10Y, PPL10Z

Healthy Active Living Education, Grade 9, Open

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

Code	Title	Additional Information
PPL10X	Healthy Active Living Education	This course is for female students only.
PPL10Y	Healthy Active Living Education	This course is for male students only.
PPL10Z	Healthy Active Living Education	This course is for students enrolled in the ESL/ELD program.

Grade 10

PPL20X, PPL20Y, PAF20X, PAF20Y

Healthy Active Living Education, Grade 10, Open

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

Code	Title	Additional Information
PPL20X	Healthy Active Living Education	This course is for female students only.
PPL20Y	Healthy Active Living Education	This course is for male students only.
PAF20X	Personal and Fitness Activities	This course is for female students only.
PAF20Y	Personal and Fitness Activities	This course is for male students only.

Grade 11

PPL30X, PPL30Y, PPL30I, PAF30X, PAF30Y, PAL30X, PAL30Y, PAI30I, PPL30F, PAD30I

Healthy Active Living Education, Grade 11, Open

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

Code	Title	Additional Information
PPL30X	Healthy Active Living Education	This course is for female students only.
PPL30Y	Healthy Active Living Education	This course is for male students only.
PPL30I	Healthy Active Living Education	
PAF30X	Personal and Fitness Activities	This course is for female students only.
PAF30Y	Personal and Fitness Activities	This course is for male students only.
PAL30X	Large Group Activities	This course is for female students only.
PAL30Y	Large Group Activities	This course is for male students only.
PAI30I	Individual and Small Group Activities	
PPL30F	Healthy Active Living Education	This course is offered with French as the language of instruction.
PAD30I	Outdoor Activities	

PPZ3OI, PPZ3OX, PPZ3OY

Health for Life, Grade 11, Open

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

Code	Title	Additional Information
PPZ3OI	Health for Life	
PPZ3OX	Health for Life	This course is for female students only.
PPZ3OY	Health for Life	This course is for male students only.

Grade 12

PPL4OI, PAI4OI, PAF4OX

Healthy Active Living Education, Grade 12, Open

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

Code	Title	Additional Information
PPL4OI	Healthy Active Living Education	
PAI4OI	Individual and Small Group Activities	
PAF4OX	Personal and Fitness Activities	This course is for female students only.

PLF4CI

Recreation and Fitness Leadership, Grade 12, College Preparation

This course focuses on the development of leadership and coordination skills related to recreational activities. Students will acquire the knowledge and skills required to plan, organize, and implement recreational events. They will also learn how to promote the value of physical fitness, personal well-being, and personal safety to others through mentoring. *The course will prepare students for college programs in recreation, leisure, and fitness leadership. Prerequisite: Any Grade 11 or 12 open course in Health and Physical Education*

PSE4UI

Exercise Science, Grade 12, University Preparation

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*

Course Descriptions for Interdisciplinary Studies

NOTE: Students may take a **MAXIMUM** of three interdisciplinary studies courses one each of:

- Interdisciplinary Studies, Grade 11, Open
- Interdisciplinary Studies, Grade 12, University Preparation
- Interdisciplinary Studies, Grade 12, Open

IDC30I, IDC30X, IDC30*

Interdisciplinary Studies, Grade 11, Open

This course will help students combine the skills required for and knowledge of different subjects/disciplines to solve problems, make decisions, create personal meaning, and present findings beyond the scope of a single subject/discipline. Through individual and collaborative inquiry and research, students will analyse the connections among diverse subjects/disciplines; develop information literacy skills in analysing, selecting, evaluating, and communicating information; and become aware of a variety of resources and viewpoints on contemporary issues. They will also examine their own learning styles, relate their inquiries and research to real-life situations, and investigate career opportunities in a new disciplines.

Code	Title	Additional Information
IDC30I	Applied Journalism	This course will help students develop practical skills in the areas of photography, image manipulation, design and layout, research and writing, and marketing.
IDC30X	Leadership	This course will introduce students to leadership theories as they pursue leadership roles in the school and community. Students will study and apply theory in developing skills in the areas of conflict resolution, planning and goal setting, problem solving, group dynamics and teamwork. Students will develop the skills and knowledge to support them in pursuing a variety of leadership roles.
IDC30*	Please refer to individual school supplements for additional Interdisciplinary Studies course offerings.	

IDC40I, IDC40X, IDC40*

Interdisciplinary Studies, Grade 12, Open

This course emphasizes the development of practical skills and knowledge to solve problems, make decisions, create personal meaning, and present findings beyond the scope of a single subject/discipline. Through individual and collaborative inquiry and research into contemporary issues, real-life situations, and careers, students will apply the principles and skills derived from the complementary subjects/disciplines studied, evaluate the reliability of information, and examine how information technology can be used safely, effectively, and legally. They will also learn how to select strategies to define problems, research alternative solutions, assess their thinking in reaching decisions, and adapt to change as they acquire new knowledge.

Code	Title	Additional Information
IDC40I	Applied Journalism	This course will help students develop practical skills in the areas of photography, image manipulation, design and layout, research and writing, and marketing.
IDC40X	Leadership	This course will introduce students to leadership theories as they pursue leadership roles in the school and community. Students will study and apply theory in developing skills in the areas of conflict resolution, planning and goal setting, problem solving, group dynamics and teamwork. Students will develop the skills and knowledge to support them in pursuing a variety of leadership roles.
IDC40*	Please refer to individual school supplements for additional Interdisciplinary Studies course offerings.	

IDC4UI, IDC4UX, IDC4UY, IDC4U*

Interdisciplinary Studies, Grade 12, University

This course will help students develop and consolidate the skills required for and knowledge of different subjects/disciplines to solve problems, make decisions, create personal meaning, and present findings beyond the scope of a single subject/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.

Prerequisite: Any University or University/College preparation course.

Code	Title	Additional Information
IDC4UI	Applied Journalism	This course will help students develop practical skills in the areas of photography, image manipulation, design and layout, research and writing, and marketing.
IDC4UX	Leadership	This course will introduce students to leadership theories as they pursue leadership roles in the school and community. Students will study and apply theory in developing skills in the areas of conflict resolution, planning and goal setting, problem solving, group dynamics and teamwork. Students will develop the skills and knowledge to support them in pursuing a variety of leadership roles.
IDC4UY	Peer Tutoring	This course provides students an opportunity to plan and deliver lessons in a junior classroom. Students learn about educational theories, teaching strategies and mentoring.
IDC4U*	Please refer to individual school supplements for additional Interdisciplinary Studies course offerings.	

IDP4UI

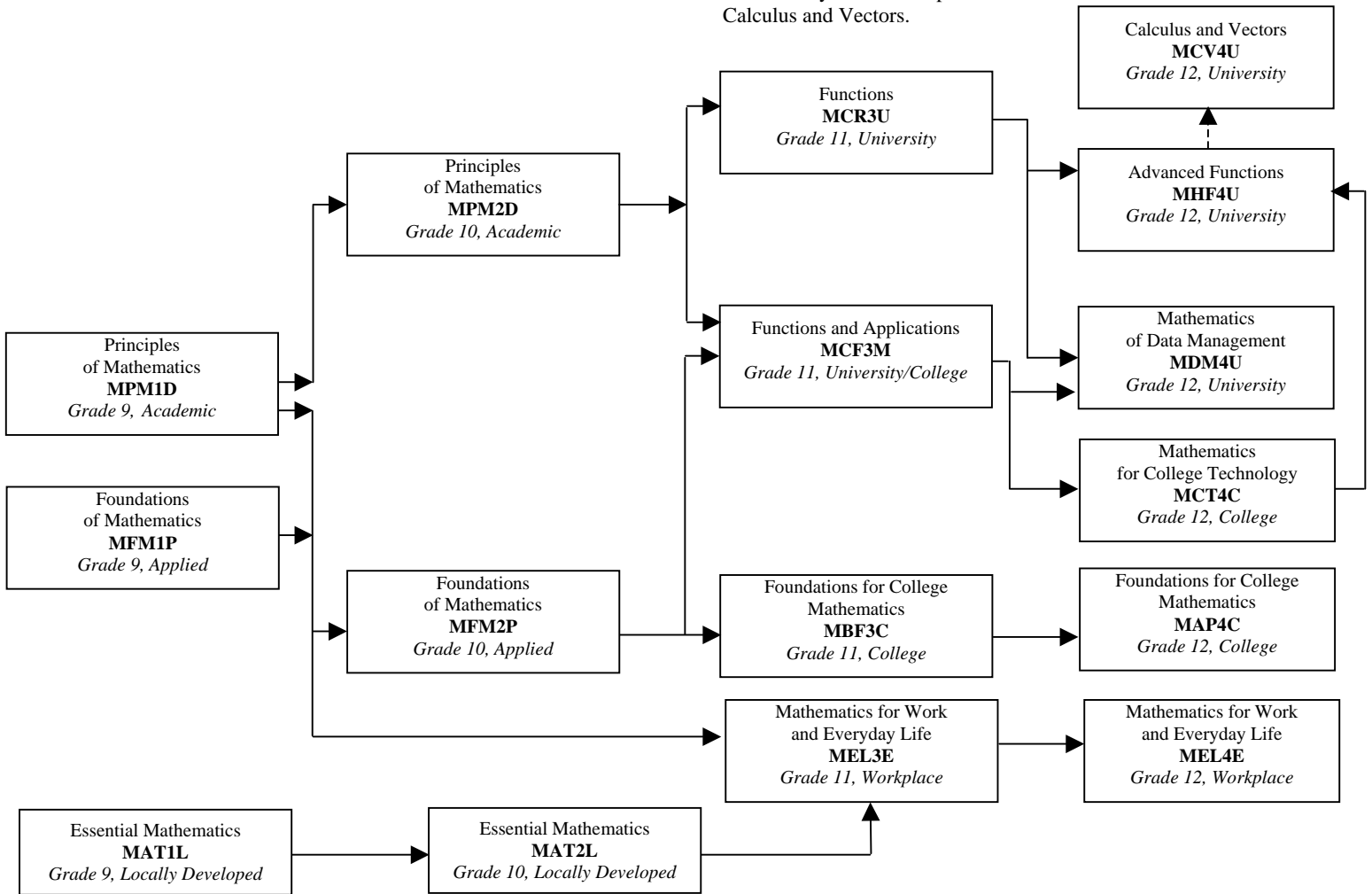
Interdisciplinary Studies, Grade 12, University

This package of courses consists of the expectations for Interdisciplinary Studies, Grade 12, University, as well as expectations from other courses: This course will help students develop and consolidate the skills required for and knowledge of different subjects/disciplines to solve problems, make decisions, create personal meaning, and present findings beyond the scope of a single subject/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, as well as, the prerequisites for each of the courses in the package.

Prerequisite Chart for Mathematics

Note: The new Advanced Functions course can be taken concurrently with or can precede Calculus and Vectors.



Course Descriptions for Mathematics

Grade 9

MAT1LI

Essential Mathematics, Grade 9, Locally Developed

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

MFM1PI, MFM1PZ

Foundations of Mathematics, Grade 9, Applied

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

Code	Title	Additional Information
MFM1PI	Foundations of Mathematics	
MFM1PZ	Foundations of Mathematics	This course is for students enrolled in the ESL/ELD program.

MPM1DI, MPM1DZ

Principles of Mathematics, Grade 9, Academic

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 relationship. They will also explore relationships that emerge from the measurement of three-dimensional objects and two-dimensional shapes. Students will reason mathematically and communicate their thinking as they solve multistep problems.

Code	Title	Additional Information
MPM1DI	Principles of Mathematics	
MPM1DZ	Principles of Mathematics	This course is for students enrolled in the ESL/ELD program.

Grade 10

MAT2LI

Essential Mathematics, Grade 10, Locally Developed

This course emphasizes the extension of mathematical knowledge and skills to prepare students for success in their everyday lives, in the workplace, and in the Mathematics Grade 11 and Grade 12 Workplace Preparation courses. The course is organized by three strands related to money sense, measurement, and proportional reasoning. In all strands, the focus is on strengthening and extending key foundational mathematical concepts and skills by solving authentic, everyday problems. Students have opportunities to extend their mathematical literacy and problem-solving skills and to continue developing their skills in reading, writing, and oral language through relevant and practical math activities. *Prerequisite: A Grade 9 Mathematics credit*

Mathematics

MFM2PI, MFM2PZ

Foundations of Mathematics, Grade 10, Applied

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

Code	Title	Additional Information
MFM2PI	Foundations of Mathematics	
MFM2PZ	Foundations of Mathematics	This course is for students enrolled in the ESL/ELD program.

MPM2DI, MPM2DZ

Principles of Mathematics, Grade 10, Academic

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

Code	Title	Additional Information
MPM2DI	Principles of Mathematics	
MPM2DZ	Principles of Mathematics	This course is for students enrolled in the ESL/ELD program.

Grade 11

MBF3CI

Foundations for College Mathematics, Grade 11, College Preparation

This course enables students to broaden their understanding of mathematics as a problem-solving tool in the real world. Students will extend their understanding of quadratic relations, as well as of measurement and geometry; investigate situations involving exponential growth; solve problems involving compound interest; solve financial problems connected with vehicle ownership; and develop their ability to reason by collecting, analysing, and evaluating data involving one and two variables. Students will consolidate their mathematical skills as they solve problems and communicate their thinking. *Prerequisite: Grade 10 Foundations of Mathematics, Applied*

MEL3EI

Mathematics for Everyday Life, Grade 11, Workplace Preparation

This course enables students to broaden their understanding of mathematics as it is applied in the workplace and daily life. Students will solve problems associated with earning money, paying taxes, and making purchases; apply calculations of simple and compound interest in saving, investing, and borrowing; and calculate the costs of transportation and travel in a variety of situations. Students will consolidate their mathematical skills as they solve problems and communicate their thinking. *Prerequisite: Grade 9 Foundations of Mathematics, Applied, or Essential Mathematics, Grade 10, Locally Developed*

MCF3MI

Functions and Applications, Grade 11, University/College Preparation

This course introduces basic features of the function by extending students' experiences with quadratic relations. It focuses on quadratic, trigonometric, and exponential functions and their use in modelling real-world situations. Students will represent functions numerically, graphically, and algebraically; simplify expressions; solve equations; and solve problems relating to financial and trigonometric applications. Students will reason mathematically and communicate their thinking as they solve multi-step problems. *Prerequisite: Grade 10 Principles of Mathematics, Academic, or Grade 10 Foundations of Mathematics, Applied*

MCR3UI**Functions, Grade 11, University Preparation**

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

Grade 12**MAP4CI****Foundations for College Mathematics, Grade 12, College Preparation**

This course enables students to broaden their understanding of real-world applications of mathematics. Students will analyse data using statistical methods; solve problems involving applications of geometry and trigonometry; simplify expressions; and solve equations. Students will reason mathematically and communicate their thinking as they solve multi-step problems. This course prepares students for college programs in areas such as business, health sciences, and human services, and for certain skilled trades. *Prerequisite: Foundations for College Mathematics, Grade 11, College Preparation*

MCT4CI**Mathematics for College Technology, Grade 12, College Preparation**

This course enables students to extend their knowledge of functions. Students will investigate and apply properties of polynomial, exponential, and trigonometric functions; continue to represent functions numerically, graphically, and algebraically; develop facility in simplifying expressions and solving equations; and solve problems that address applications of algebra, trigonometry, vectors, and geometry. Students will reason mathematically and communicate their thinking as they solve multi-step problems. This course prepares students for a variety of college technology programs. *Prerequisite: Functions and Applications, Grade 11, University/College Preparation*

MEL4EI**Mathematics for Work and Everyday Life, Grade 12, Workplace Preparation (MEL4E)**

This course enables students to broaden their understanding of mathematics as it is applied in the workplace and daily life. Students will investigate questions involving the use of statistics; apply the concept of probability to solve problems involving familiar situations; investigate accommodation costs and create household budgets; use proportional reasoning; estimate and measure; and apply geometric concepts to create designs. Students will consolidate their mathematical skills as they solve problems and communicate their thinking. *Prerequisite: Mathematics for Work and Everyday Life, Grade 11, Workplace Preparation*

MCV4UI**Calculus and Vectors, Grade 12, University Preparation**

This course builds on students' previous experience with functions and their developing understanding of rates of change. Students will solve problems involving geometric and algebraic representations of vectors, and representations of lines and planes in three-dimensional space; broaden their understanding of rates of change to include the derivatives of polynomial, rational, exponential, and sinusoidal functions; and apply these concepts and skills to the modelling of real-world relationships. Students will also refine their use of the mathematical processes necessary for success in senior mathematics. This course is intended for students who plan to study mathematics in university and who may choose to pursue careers in fields such as physics and engineering. **Note:** The new Advanced Functions can be taken concurrently with or can precede Calculus and Vectors.

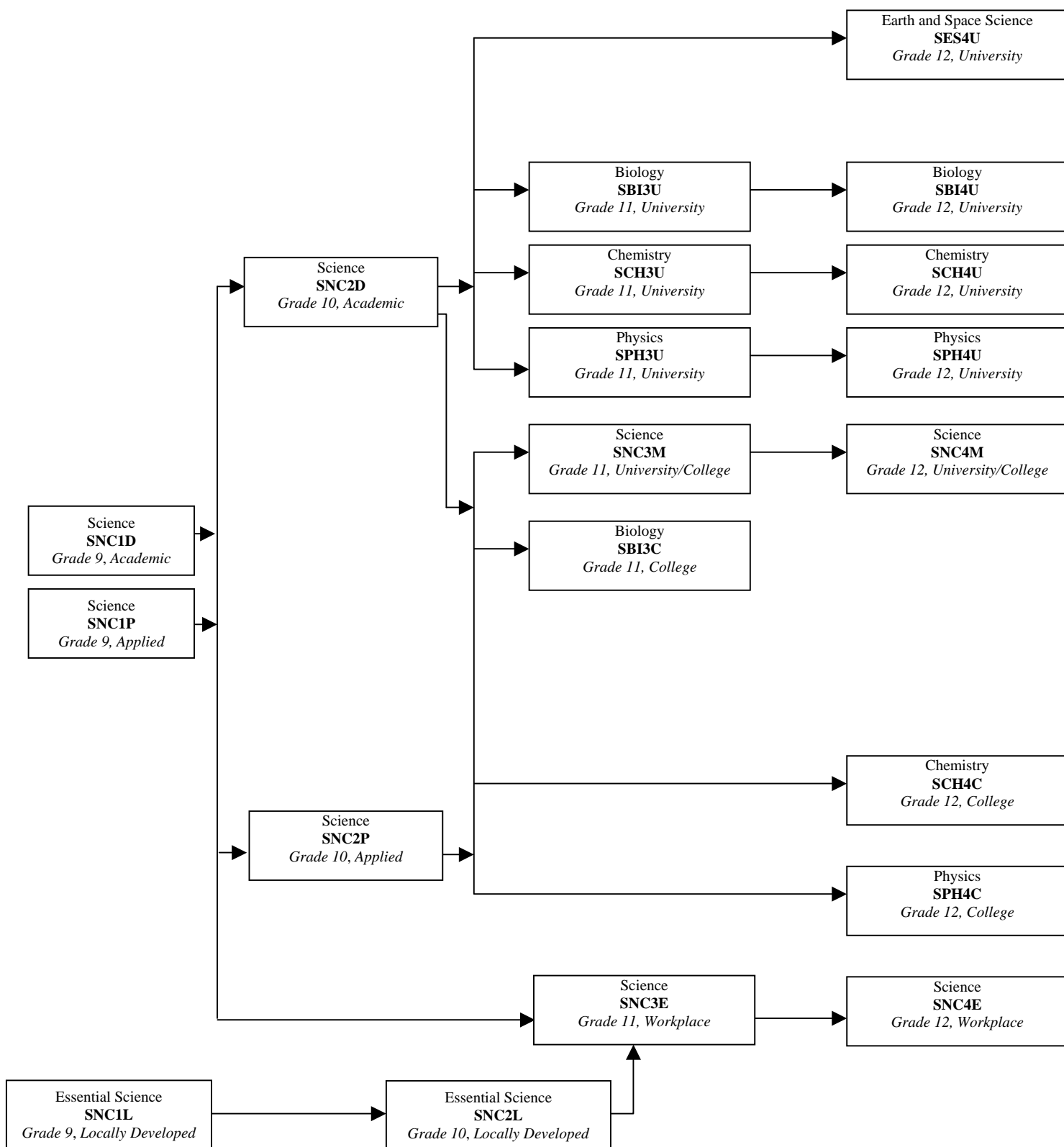
MDM4UI**Mathematics of Data Management, Grade 12, University Preparation**

This course broadens students' understanding of mathematics as it relates to managing data. Students will apply methods for organizing large amounts of information; solve problems involving probability and statistics; and carry out a culminating project that integrates statistical concepts and skills. Students will also refine their use of the mathematical processes necessary for success in senior mathematics. Students planning to enter university programs in business, the social sciences, and the humanities will find this course of particular interest. *Prerequisite: Functions and Applications, Grade 11, University/College Preparation, or Functions, Grade 11, University Preparation*

MHF4UI**Advanced Functions, Grade 12, University Preparation**

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

Prerequisite Chart Descriptions for Science



Course Descriptions for Science

Grade 9

SNC1LI

Essential Science, Grade 9, Locally Developed

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

SNC1PI, SNC1PZ

Science, Grade 9, Applied

This course enables students to understand essential concepts in biology, chemistry, earth and space science, and physics; to develop practical skills in scientific investigation; and to apply their knowledge of science to everyday situations. Students will design and conduct investigations into practical problems and issues related to cell division and reproduction, the structure and properties of elements and compounds, astronomy and space exploration, and static and current electricity.

Code	Title	Additional Information
SNC1PI	Science	
SNC1PZ	Science	This course is for students enrolled in the ESL/ELD program.

SNC1DI, SNC1DZ

Science, Grade 9, Academic

This course enables students to understand essential concepts in biology, chemistry, earth and space science, and physics; to develop skills in the processes of scientific inquiry; and to relate science knowledge to technological, social, and environmental knowledge. Students will learn about scientific theories and pursue inquiries related to cell division and reproduction, atomic and molecular structures, properties of elements and compounds, the universe and space exploration, and the principles of static and current electricity.

Code	Title	Additional Information
SNC1DI	Science	
SNC1DZ	Science	This course is for students enrolled in the ESL/ELD program.

Grade 10

SNC2LI

Essential Science, Grade 10, Locally Developed

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

Science

SNC2PI, SNC2PZ

Science, Grade 10, Applied

This course enables students to develop a deeper understanding of concepts in biology, chemistry, earth and space science, and physics; to develop further their practical skills in scientific investigation; and to apply their knowledge of science to real-world situations. Students will design and conduct investigations into everyday problems and issues related to ecological sustainability, chemical reactions, weather systems, and motion. *Prerequisite: Grade 9 Science, Academic or Applied*

Code	Title	Additional Information
SNC2PI	Science	
SNC2PZ	Science	This course is for students enrolled in the ESL/ELD program.

SNC2DI, SNC2DZ

Science, Grade 10, Academic

This course enables students to develop a deeper understanding of concepts in biology, chemistry, earth and space science, and physics; to develop further their skills in scientific inquiry; and to understand the interrelationships among science, technology, and the environment. Students will conduct investigations and understand scientific theories related to: ecology and the maintenance of ecosystems; chemical reactions, with particular attention to acid-base reactions; factors that influence weather systems; and motion. *Prerequisite: Grade 9 Science, Academic or Applied*

Code	Title	Additional Information
SNC2DI	Science	
SNC2DZ	Science	This course is for students enrolled in the ESL/ELD program.

Grade 11

SBI3CI

Biology, Grade 11, College Preparation

This course focuses on the processes involved in biological systems. Students will learn concepts and theories as they conduct investigations in the areas of cellular biology, microbiology, animal anatomy and physiology, plant structure and physiology, and environmental science. Emphasis will be placed on the practical application of concepts and skills needed for further study in the various branches of life sciences and related fields. *Prerequisite: Grade 10 Science, Academic or Applied*

SBI3UI

Biology, Grade 11, University Preparation

This course furthers students' understanding of the processes involved in biological systems. Students will study cellular functions, genetic continuity, internal systems and regulation, the diversity of living things, and the anatomy, growth, and functions of plants. The course focuses on the theoretical aspects of the topics under study, and helps students refine skills related to scientific investigation. *Prerequisite: Grade 10 Science, Academic*

SCH3UI

Chemistry, Grade 11, University Preparation

This course focuses on the concepts and theories that form the basis of modern chemistry. Students will study the behaviours of solids, liquids, gases, and solutions; investigate changes and relationships in chemical systems; and explore how chemistry is used in developing new products and processes that affect our lives and our environment. Emphasis will also be placed on the importance of chemistry in other branches of science. *Prerequisite: Grade 10 Science, Academic*

SPH3UI

Physics, Grade 11, University Preparation

This course develops students' understanding of the basic concepts of physics. Students will study the laws of dynamics and explore different kinds of forces, the quantification and forms of energy (mechanical, sound, light, thermal, and electrical), and the way energy is transformed and transmitted. They will develop scientific-inquiry skills as they verify accepted laws and solve both assigned problems and those emerging from their investigations. Students will also analyse the interrelationships between physics and technology, and consider the impact of technological applications of physics on society and the environment. *Prerequisite: Grade 10 Science, Academic*

SNC3EI**Science, Grade 11, Workplace Preparation**

This course provides students with the science-related knowledge and skills they need to help them make informed decisions in the workplace and in their personal lives. Students will explore a range of topics, including materials and safety; electrical circuits; micro-organisms; the human immune system and defences against disease; and the impact of technology on the environment. Emphasis is placed on relating these topics directly to students' experiences both in the world of work and in daily life. *Prerequisite: Grade 9 Science, Academic, Applied or Grade 10 Essential Science*

SNC3MI**Science, Grade 11, University/College Preparation**

This course enables students, including those who do not intend to pursue science-related programs at the postsecondary level, to increase their understanding of science and its technological applications. Students will explore a range of topics, including the safe use of everyday chemicals; the science of nutrition and body function; waste management; the application of scientific principles in space; and technologies in everyday life. Emphasis will be placed on the role of science and technology in daily life and in relation to social and environmental issues. *Prerequisite: Grade 10 Science, Academic or Applied*

Grade 12**SBI4UI****Biology, Grade 12, University Preparation**

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 metabolic processes, molecular genetics, homeostasis, evolution, and population dynamics. Emphasis will be placed on achievement of the detailed knowledge and refined skills needed for further study in the various branches of life sciences and related fields. *Prerequisite: Grade 11 Biology, University*

SCH4CI**Chemistry, Grade 12, College Preparation**

This course introduces students to the concepts that form the basis of modern chemistry. Students will study qualitative analysis, quantitative relationships in chemical reactions, organic chemistry and electrochemistry, and chemistry as it relates to the quality of the environment. Students will employ a variety of laboratory techniques, develop skills of 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 in the development of new technologies and products. *Prerequisite: Grade 10 Science, Academic or Applied*

SCH4UI**Chemistry, Grade 12, University Preparation**

This course enables students to deepen their understanding of chemistry through the study of organic chemistry, energy changes and rates of reaction, chemical equilibrium, atomic and molecular structure, and electrochemistry. 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. *Prerequisite: Grade 11 Chemistry, University*

SES4UI**Earth and Space Science, Grade 12, University Preparation**

This course focuses on the basic concepts and theories of Earth and space science, and their relevance to everyday life. Students will first study the origin and evolution of the universe, and then explore the materials and the internal and surficial processes of the Earth as they study the planet's history. The course draws on biology, chemistry, mathematics, and physics in its consideration of geological processes that can be observed directly or inferred from geological evidence. *Prerequisite: Grade 10 Science, Academic*

SPH4CI**Physics, Grade 12, College Preparation**

This course develops students' understanding of the basic concepts of physics. Students will explore these concepts as they relate to mechanical, electrical, fluid (hydraulic and pneumatic), and communications systems, as well as to the operation of commonly used tools and equipment. They will develop scientific-inquiry skills as they verify accepted 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: Grade 10 Science, Academic or Applied*

Science

SPH4UI

Physics, Grade 12, University Preparation

This course enables students to deepen their understanding of the concepts and theories of physics. Students will explore further the laws of dynamics and energy transformations, and will investigate electrical, gravitational, and magnetic fields; electromagnetic radiation; and the interface between energy and matter. They will further develop inquiry skills, learning, for example, how the interpretation of experimental data can provide indirect evidence to support the development of a scientific model. Students will also consider the impact on society and the environment of technological applications of physics. *Prerequisite: Grade 11 Physics, University*

SNC4EI

Science, Grade 12, Workplace Preparation

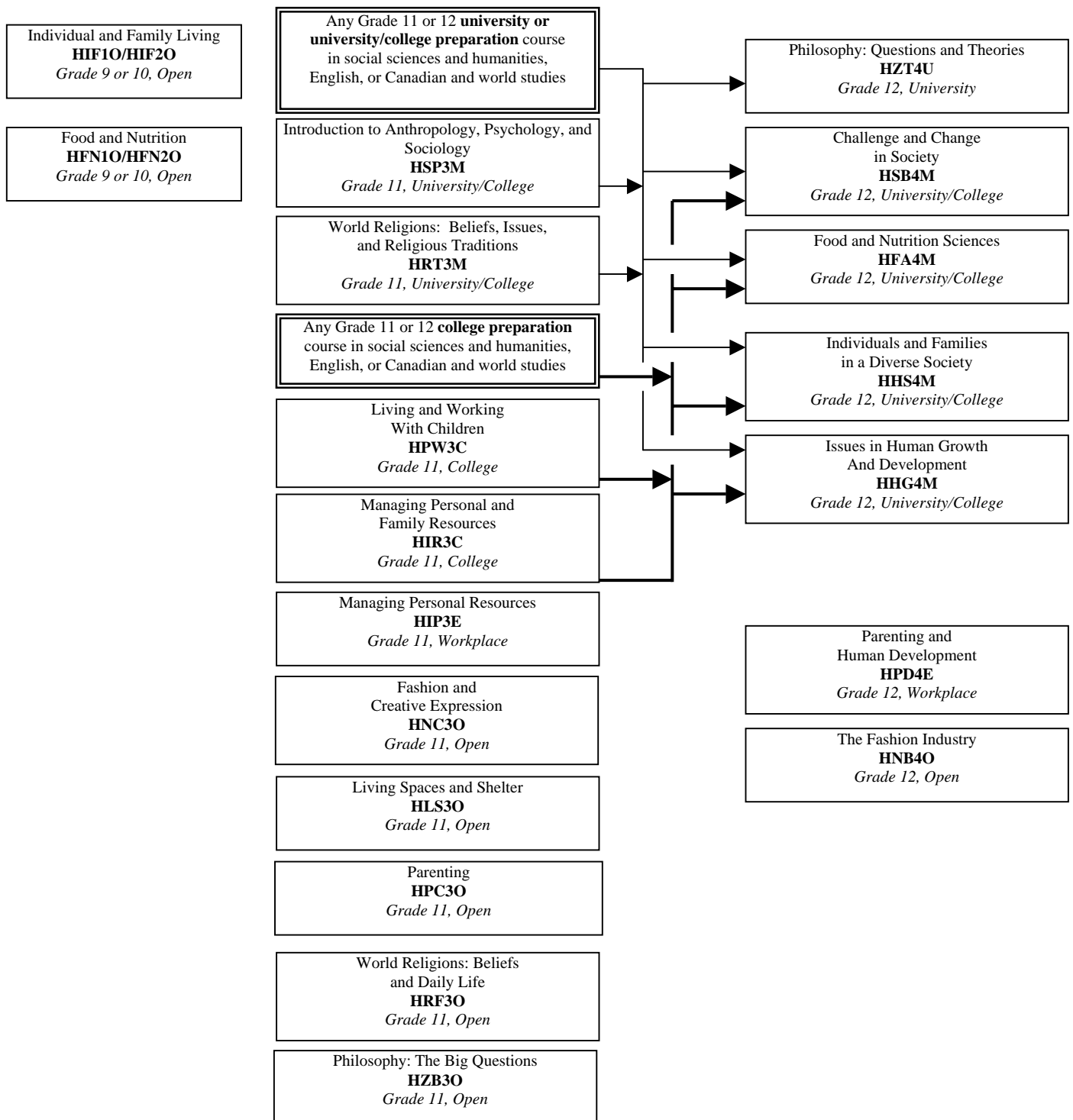
This course provides students with the science-related knowledge and skills they need to help them make informed decisions in the workplace and in their personal lives. Students will explore a range of topics, including chemistry at home and at work; communications technology; medical technology; horticulture, forestry, and gardening; and alternative life-sustaining environments. Emphasis is placed on relating these topics directly to students' experiences both in the world of work and in daily life. *Prerequisite: Grade 11 Science, Workplace*

SNC4MI

Science, Grade 12, University/College Preparation

This course enables students, including those who do not intend to pursue science-related programs at the postsecondary level, to further develop their understanding of science and its technological applications. Students will explore a range of topics, including organic products in everyday life; pathogens and disease; energy alternatives and their impact globally; communication systems; and contemporary scientific discoveries and dilemmas. Emphasis will be placed on relating these topics to global issues as well as to daily life, and on developing skills in the areas of experimentation, research, critical thinking, and analysis. *Prerequisite: Grade 11 Science, University/College*

Prerequisite Chart for Social Sciences and Humanities



Course Descriptions for Social Sciences and Humanities

- Note:** 1) A student may take a maximum of one HFN course for credit.
 2) A student may take a maximum of one HIF course for credit.

Grade 9

HFN1OI, HFN1OZ

Food and Nutrition, Grade 9, Open

This course explores the factors that affect attitudes and decisions about food, and examines current issues of body image and food marketing. Students will learn how to make wise food choices and to prepared 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.

Code	Title	Additional Information
HFN1OI	Food and Nutrition	
HFN1OZ	Food and Nutrition	This course is for students enrolled in the ESL/ELD program.

HIF1OI, HIF1OZ

Individual, Family and Social Living, Grade 9, Open

This course explores the challenges faced by all people: how to meet basic needs, how to relate to others, how to manage resources, and how to become responsible member so society. Students will learn about how families work and the diversity of families and societies, and will have opportunities to develop interpersonal skills, decision-making skills, and practical skills related to family and social issues in daily life.

Code	Title	Additional Information
HIF1OI	Individual Family and Social Living	
HIF1OZ	Individual Family and Social Living	This course is for students enrolled in the ESL/ELD program.

Grade 10

HFN2OI, HFN2OZ

Food and Nutrition, Grade 10, Open

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

Code	Title	Additional Information
HFN2OI	Food and Nutrition	
HFN2OZ	Food and Nutrition	This course is for students enrolled in the ESL/ELD program.

HIF2OI

Individual and Family Living, Grade 10, Open

This course explores the challenges faced by all people: how to meet basic needs, how to relate to others, how to manage resources, and how to become responsible members of society. Students will acquire knowledge and skills that are needed to make the transition to adulthood. Teachers will instruct students in developing interpersonal, decision-making, and practical skills related to daily life. Students will explore the functioning of families and the diversities found among families and within society.

Grade 11

HPW3CI

Living and Working With Children, Grade 11, College Preparation

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

HIR3CI**Managing Personal and Family Resources, Grade 11, College Preparation**

This course explores how to use human, material, and community resources effectively, and how to make informed choices with respect to clothing purchases, finance, food and nutrition, housing, and transportation. Students will learn about the dynamics of human interaction; how to make responsible choices in their transition to postsecondary education and careers; and strategies to enable them to manage time, talent, and money effectively. This course also introduces students to skills used in researching and investigating resource management.

HIP3EI**Managing Personal Resources, Grade 11, Workplace Preparation**

This course prepares students for living independently and working successfully with others. Students will learn to manage their personal resources (including talent, money, and time), to develop interpersonal skills, and to understand economic influences on workplace issues, in order to make wise and responsible personal and occupational choices. The course emphasizes the achievement of expectations through practical experiences and introduces students to skills used in researching and investigating resource management.

HNC3OI**Fashion and Creative Expression, Grade 11, Open**

This course explores what clothing communicates about the wearer and how it becomes a creative and entrepreneurial outlet through the design and production processes. Students will learn, through practical experiences, about the nature of fashion design; the characteristics of fibres and fabrics; the construction, production, and marketing of clothing; and how to plan and care for a wardrobe that is appropriate for an individual's appearance, activities, employment, and lifestyle. Students will develop research skills as they explore the evolution of fashion and its relationship to society, culture, and individual psychology.

HLS3OI**Living Spaces and Shelter, Grade 11, Open**

This course analyses how different types of living spaces and forms of shelter meet people's physical, social, emotional, and cultural needs and reflect society's values, established patterns of living, and economic and technological developments. Students will learn how to make practical decisions about where to live and how to create functional and pleasing environments, and will explore occupational opportunities related to housing and design. They will also learn skills used in researching and investigating living accommodations and housing.

HPC3OI**Parenting, Grade 11, Open**

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

HSP3MI**Introduction to Anthropology, Psychology, and Sociology, Grade 11, University/College Preparation**

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.

HRT3MI**World Religions: Beliefs, Issues, and Religious Traditions, Grade 11, University/College Preparation**

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.

HRF3OI**World Religions: Beliefs and Daily Life, Grade 11, Open**

This course introduces students to the range and diversity of world religions, and examines how systems of belief affect individual lives and social relationships. Students will learn about a variety of religious beliefs, teachings, traditions, and practices. The course also helps students to develop skills used in researching and investigating topics related to world religions.

Social Sciences and Humanities

HZB3OI

Philosophy: The Big Questions, Grade 11, Open

This course addresses three (or more) of the following questions: What is a person? What is a meaningful life? What are good and evil? What is a just society? What is human knowledge? How do we know what is beautiful in art, music, and literature? Students will learn critical-thinking skills in evaluating philosophical arguments related to these questions, as well as skills used in researching and investigating various topics in philosophy.

Grade 12

HFA4MI

Food and Nutrition Sciences, Grade 12, University/College Preparation

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 making 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*

HHS4MI

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

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*

HHG4MI

Issues in Human Growth and Development, Grade 12, University/ College Preparation

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*

HPD4EI

Parenting and Human Development, Grade 12, Workplace Preparation

This course prepares students for occupations involving older children, and for the responsibility of parenting, with emphasis on school-age and adolescent children. Students will learn, through practical experience in the community, how early child development affects later development, success in school, and personal and social well-being throughout life, and how children and parents change over time. This course also develops students' skills in researching and investigating various aspects of parenting and human development.

HNB4OI

The Fashion Industry, Grade 12, Open

This course provides a historical perspective on fashion and design, exploring the origins, influence, and importance of fashion as an expression of national, cultural, religious, and personal identity. Students will learn about the many facets of the Canadian fashion industry, including both large-scale and small entrepreneurial enterprises, and its worldwide links, as well as gaining practical experience in garment design, production, and care. This course also refines students' skills used in researching and investigating various aspects of the fashion industry.

HSB4MI

Challenge and Change in Society, Grade 12, University/College Preparation

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*

HZT4UI**Philosophy: Questions and Theories, Grade 12, University Preparation**

This course addresses three (or more) of the main areas of philosophy: metaphysics, logic, epistemology, ethics, social and political philosophy, and aesthetics. Students will learn critical-thinking skills, the main ideas expressed by philosophers from a variety of the world's traditions, how to develop and explain their own philosophical ideas, and how to apply those ideas to contemporary social issues and personal experiences. The course will also help students refine skills used in researching and investigating topics in philosophy. *Prerequisite: Any University or University/College preparation course in Social Sciences and Humanities, English, or Canadian and World Studies*

Prerequisite Charts for Technological Education

Part A: Broad-Based Technology

Health and Personal Services

Integrated Technologies
TTI10
Grade 9, Open

Health and Personal Services Technology
TPJ20
Grade 10, Open

Health Care
TPA3C
Grade 11, College

Medical Technologies
TPT4C
Grade 12, College

Child Development and Gerontology
TPO4C
Grade 12, College

Hospitality and Tourism

Integrated Technologies
TTI10
Grade 9, Open

Hospitality and Tourism
TFJ20
Grade 10, Open

Hairstyling and Aesthetics
TPE3E
Grade 11, Workplace

Hairstyling and Aesthetics
TPE4E
Grade 12, Workplace

Hospitality
TFT3C
Grade 11, College

Tourism
TFS4C
Grade 12, College

Hospitality and Tourism
TFH3E
Grade 11, Workplace

Hospitality and Tourism
TFH4E
Grade 12, Workplace

Manufacturing Technology

Integrated Technologies
TTI10
Grade 9, Open

Manufacturing Technology
TMJ20
Grade 10, Open

Manufacturing Engineering Technology
TMJ3C
Grade 11, College

Manufacturing Engineering Technology
TMJ4C
Grade 12, College

Manufacturing Technology
TMJ3E
Grade 11, Workplace

Manufacturing Technology
TMJ4E
Grade 12, Workplace

Technological Design

Integrated Technologies
TTI10
Grade 9, Open

Technology Design
TDJ20
Grade 10, Open

Technological Design
TDJ3M
Grade 11, University/College

Technological Design
TDJ4M
Grade 12, University/College

Technological Design
TDJ3E
Grade 11, Workplace

Technological Design
TDJ4E
Grade 12, Workplace

Transportation Technology

Integrated Technologies
TTI10
Grade 9, Open

Transportation Technology
TTJ20
Grade 10, Open

Transportation Technology
TTJ3C
Grade 11, College

Transportation Technology
TTJ4C
Grade 12, College

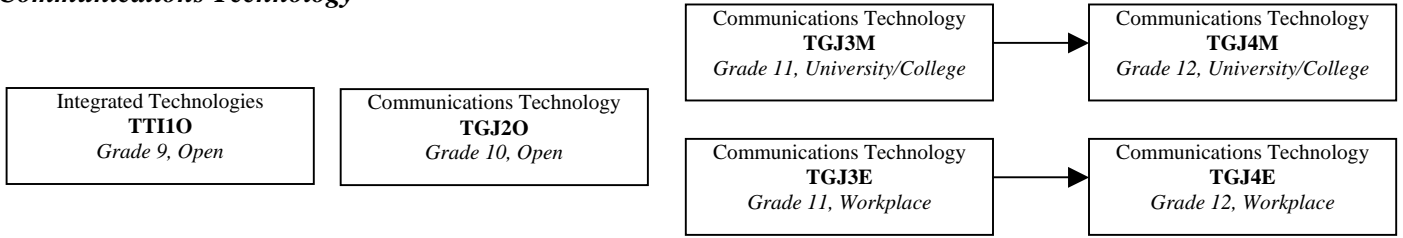
Transportation Technology
TTJ3E
Grade 11, Workplace

Transportation Technology
TTJ4E
Grade 12, Workplace

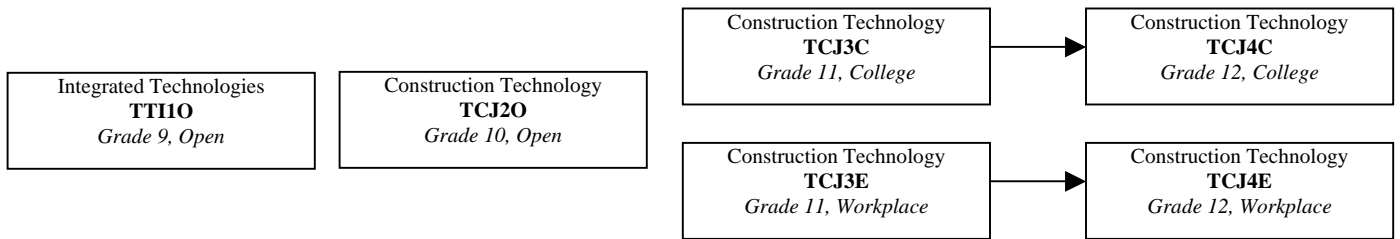
Prerequisite Charts for Technological Education

Part A: Broad-Based Technology

Communications Technology

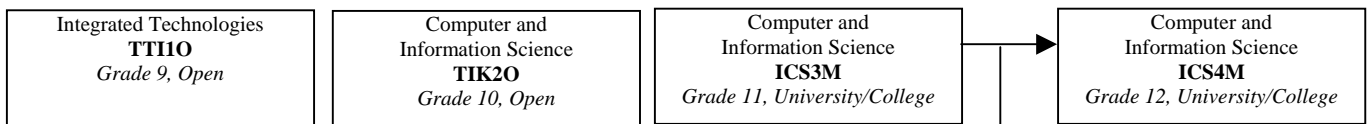


Construction

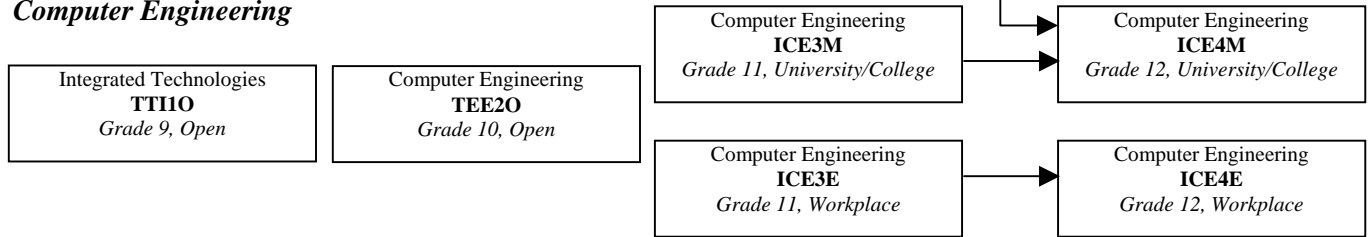


Part B: Computer Studies

Computer and Information Science



Computer Engineering



Course Descriptions for Technological Education - Part A: Broad-Based Technology

Note: A student may earn a maximum of 3 credits, at each grade level and course type, in any of the broad-based technology areas (i.e., communications technology, construction technology, health and personal services, hospitality and tourism, manufacturing technology, technological design, transportation technology).

Grade 9

TTI10I

Integrated Technologies, Grade 9, Open

This course enables students to understand the technological and computer concepts they need in order to design, develop, and build useable products and/or deliver services, and/or pursue further technological studies. Students will use the technological design process and a variety of tools and software to solve problems, complete projects, and strengthen their communication skill.

Grade 10

TGJ20I

Communications Technology, Grade 10, Open

This course requires students to complete a range of communications technology projects. These may include creating printed stationery, short videos, computer-generated animations, and graphical information displays. Students will learn to transfer information using electronic, live, and graphic communications methods. The knowledge and skills they will develop will provide a basis for careers in areas such as publishing, advertising, print production, animation, photography, and journalism.

TCJ20I, TCJ20X, TCJ20W, TCJ20Y

Construction Technology, Grade 10, Open

This course requires students to design, build, and evaluate projects using design instruments and machine and hand tools. Students will solve technological problems through a variety of media; identify and describe building materials and other resources needed to construct, maintain, and service buildings; identify support systems and components; apply safety rules related to materials, processes, and equipment; identify common architectural styles; and identify careers related to construction technology.

Code	Title	Additional Information
TCJ20I	Construction Technology	
TCJ20X	Residential and Light Construction Emphasis	
TCJ20W	Electrical Constructions Principles Emphasis	
TCJ20Y	Environmental Construction Emphasis	This course focuses on different methods of heating, ventilating, and air conditioning.

TMJ20I, TMJ20J, TMJ20Y, TMJ20W, TMJ20X

Manufacturing Technology, Grade 10, Open

This course introduces students to the scope of the manufacturing industry, the various components used in the design of products, the industrial tools and equipment used, and methods of manufacturing, including assembly-line production. Students will learn about technical drawing; preparation processes; manufacturing techniques; power, electronic, and quality control systems; careers in the manufacturing field; and the role of entrepreneurs in Canadian society.

Code	Title	Additional Information
TMJ20I	Manufacturing Technology	
TMJ20J	Control Systems Emphasis	
TMJ20Y	Manufacturing Processes Emphasis	This course focuses on manufacturing processes using hand and machine tooling.
TMJ20W	Product Manufacturing Emphasis	This course focuses on manufacturing processes such as woodworking.
TMJ20X	Fabrication Skills Emphasis	This course focuses on manufacturing processes such as welding and/or sheet metal fabrication.

THX23I

Horticulture and Landscape Technologies, Grade 10, Open, Locally Developed

This course focuses on introductory landscape design, construction and maintenance relating to residential, commercial, industrial and recreational businesses. Students will be introduced to the basic skills and processes involved in related landscape industries, and the development of employment skills. Students will gain introductory practical experiences with various types of materials, processes and techniques used in the landscape industry. They will consider health and safety issues and explore possible future careers.

TDJ2OI, TDJ2OW**Technological Design, Grade 10, Open**

This course requires students to design and develop innovative products and services. Students will learn the following: how to identify user needs related to specified design problems; the physical properties of selected materials and their application in product design; techniques to create physical products and services; various presentation techniques; how to test and evaluate design solutions; and the implications of technology on the development of products or services. They will also become aware of design-related careers.

Code	Title	Additional Information
TDJ2OI	Technological Design	
TDJ2OW	Engineering Emphasis	

TPJ2OI, TPJ2OX**Health and Personal Services Technology, Grade 10, Open**

This course emphasizes technological applications in the areas of health care and personal services. Students will learn to describe and evaluate professional practices and principles; to select and use technical resources to solve problems; and to use materials, tools, and equipment safely. They will also acquire transferable skills for changing work environments, personal management skills, and knowledge of entry requirements for careers in this area.

Code	Title	Additional Information
TPJ2OI	Health and Personal Services Technology	
TPJ2OX	Personal Services Emphasis	

TFJ2OI, TFJ2OX**Hospitality and Tourism Technology, Grade 10, Open**

This course emphasizes the scope of the hospitality and tourism industry. Students will study food origins, food-handling techniques and food preparation, health and safety standards, and the use of specialized tools and equipment. They will also investigate travel and tourism activities in Ontario, develop effective communication and management skills, and identify career opportunities in the hospitality and tourism industry.

Code	Title	Additional Information
TFJ2OI	Culinary Foods Preparation Emphasis	
TFJ2OX	Baked Foods Preparation Emphasis	

TTJ2OI, TTJ2OX, TTJ2OW, TTJ2OY, TTJ2OD**Transportation Technology, Grade 10, Open**

This course requires students to build projects and to learn service procedures related to different modes of transportation. Students will learn about support systems for transporting people and products; measurement systems and methods; the analysis, design, and construction of a system to convert and make practical use of energy; the function of major vehicle system components; the impact of transportation systems on the environment; communication skills; and transportation-related careers.

Code	Title	Additional Information
TTJ2OI	Transportation Technology	
TTJ2OX	Vehicle Service Emphasis	
TTJ2OW	Vehicle Systems Emphasis	Students will have an opportunity to demonstrate their knowledge and skills of small engines.
TTJ2OY	Vehicle Repairs Emphasis	This course focuses on body work and refinishing.
TTJ2OD	Transportation Technology	This is a 2.0 credit course.

Grade 11

**TGJ3MI, TGJ3MX, TGJ3MD, TGJ3MY
Communications Technology, Grade 11,
University/College Preparation,**

This course examines communications systems and design and production processes in one or more of the areas of electronic, live, and graphic communications. Students will develop knowledge and skills relating to the assembly, maintenance, and repair of the basic and more complex components of a range of communications systems. Students will also study industry standards and regulations and health and safety issues, and will explore careers, the importance of lifelong learning, and the impact of communications technology on society and the environment.

Code	Title	Additional Information
TGJ3MI	Communications Technology	
TGJ3MX	Telecommunications Emphasis	
TGJ3MD	Communications Technology	This is a 2.0 credit course.
TGJ3MY	Electronics Emphasis	

**TGJ3EI
Communications Technology, Grade 11, Workplace Preparation**

This course examines communications systems and design and production processes in one or more of the areas of electronic, live, and graphic communications. Students will learn how basic communication systems function and will develop the knowledge and skills needed to assemble, repair, maintain, and test various systems. Students will also study industry standards and regulations and health and safety issues, and will explore careers, the importance of lifelong learning, and the impact of communications technology on society and the environment.

**TCJ3CI, TCJ3CX, TCJ3CJ, TCJ3CW, TCJ3CD,
TCJ3CY
Construction Technology, Grade 11, College
Preparation**

This course focuses on residential, commercial, industrial, and/or recreational construction. Students will learn about the tools, materials, equipment, and methods used in the light construction industry; structural analysis and design; presentation and working drawings; and mechanical systems. They will also estimate materials and labour costs, and study industry standards and building codes, health and safety issues, energy conservation, careers, and the impact of construction technology on society and the environment.

Code	Title	Additional Information
TCJ3CI	Construction Technology	
TCJ3CX	Residential and Light Construction Emphasis	
TCJ3CJ	Theatre Construction	This course is designed to compliment the Integrated Arts package.
TCJ3CW	Electrical Constructions Principles Emphasis	
TCJ3CD	Construction Technology	This is a 2.0 credit course.
TCJ3CY	Environmental Construction Emphasis	This course focuses on different methods of heating, ventilating, and air conditioning.

TCJ3EI, TCJ3EX, TCJ3ED, TCJ3EW, TCJ3EY, TCJ3EJ**Construction Technology, Grade 11, Workplace Preparation**

This course focuses on residential, commercial, industrial, and/or recreational construction, emphasizing practical workplace applications, the development of generic employment skills, and preparation for apprenticeship and training programs. Students will learn about and gain practical experience with various types of materials, processes, labour, tools, and equipment used in the construction industry; technical drawings; and mechanical systems. They will also study industry standards and building codes, consider health and safety issues, and explore careers, the importance of lifelong learning, and the impact of construction technology on society and the environment.

Code	Title	Additional Information
TCJ3EI	Construction Technology	
TCJ3EX	Residential and Light Construction Emphasis	
TCJ3ED	Residential and Light Construction Emphasis	This is a 2.0 credit course.
TCJ3EW	Electrical Constructions Principles Emphasis	
TCJ3EY	Environmental Construction Emphasis	This course focuses on different methods of heating, ventilating, and air conditioning.
TCJ3EJ	Construction Technology	This course focuses on home construction.

THL35I**Horticulture and Landscape Technologies, Grade 11, Workplace, Locally Developed**

This course focuses on landscape design, construction and maintenance relating to residential, commercial, industrial and recreational business. Students will be introduced to the skills and processes involved in related landscape industries, and development of employment skills in preparation for apprenticeship and training programs. Students will gain practical experience with use of various types of materials, processes and techniques used in the landscape industry. They will also study industry standards and codes, consider health and safety issues and explore careers. The importance of lifelong learning is reinforced relating to how this industry influences our society and the environment.

TPE3EI, TPE3ET**Hairstyling and Aesthetics, Grade 11, Workplace Preparation**

This course provides students with opportunities to learn techniques in hairstyling and aesthetics that meet industry standards, using appropriate materials and equipment. Students will identify trends in the hairstyling and aesthetics industry; describe scientific and physical processes used in beauty services; learn to respect environmental, health, and safety laws; and explore career opportunities. The course may focus on either hairstyling or aesthetics, or may include a combination of both areas.

Code	Title	Additional Information
TPE3EI	Hairstyling and Aesthetics	
TPE3ET	Personal Service Emphasis	This is a 3.0 credit course that supports the licensing program.

TPA3CI**Health Care, Grade 11, College Preparation**

This course focuses on human anatomy, body systems, and basic medical terminology. Students will learn about the relationship between lifestyle and personal health, and traditional and alternative methods of disease prevention and treatment. They will also investigate health care procedures and equipment in nursing, medicine, and dentistry; examine health and safety issues in health care and the environmental and societal impacts of biotechnology; and explore various career opportunities in the health care field.

Technological Education – Part A

TFH3EI, TFH3EX, TFH3EY

Hospitality and Tourism, Grade 11, Workplace Preparation

This course focuses on food preparation and management, and hospitality and tourism activities, equipment, and facilities. Students will learn how to prepare, present, and serve food; plan, manage, and promote activities; and use the necessary equipment. Throughout the course, they will learn the fundamentals of providing high-quality service and customer satisfaction. Students will also study the occupational health and safety standards and laws regulating the hospitality and tourism industry, explore the industry's social and environmental impacts, and identify possible career paths.

Code	Title	Additional Information
TFH3EI	Hospitality and Tourism	
TFH3EX	Baked Foods Preparation Emphasis	
TFH3EY	Culinary Foods Preparation Emphasis	

TFT3CI, TFT3CX, TFT3CY

Hospitality, Grade 11, College Preparation

This course helps students understand the features, trends, and guidelines of the hospitality industry, as well as learn the basic requirements of serving customers. Students will acquire skills related to preparing and presenting food, evaluating facilities, controlling inventory, and marketing special events. They will also learn about economic and environmental impacts, health and safety standards, and career opportunities related to the hospitality industry.

Code	Title	Additional Information
TFT3CI	Hospitality	
TFT3CX	Baked Foods Preparation Service Emphasis	
TFT3CY	Culinary Foods Preparation Service Emphasis	

TMJ3CI, TMJ3CD, TMJ3CY, TMJ3CW, TMJ3CX, TMJ3CJ

Manufacturing Engineering Technology, Grade 11, College Preparation

This course focuses on design principles; electronic, pneumatic, and hydraulic control systems; and traditional and advanced manufacturing processes. Students will solve problems and make the critical decisions necessary to develop efficient production systems. They will also study the broad range of career opportunities available in the manufacturing sector and their educational requirements, and will research the scope of the manufacturing industry and the impact of its products on individuals, society, and the environment.

Code	Title	Additional Information
TMJ3CI	Manufacturing Engineering Technology	
TMJ3CD	Manufacturing Engineering Technology	This is a 2.0 credit course.
TMJ3CY	Manufacturing Processes Emphasis	This course focuses on manufacturing processes using hand and machine tooling.
TMJ3CW	Product Manufacturing Emphasis	This course focuses on manufacturing processes such as woodworking.
TMJ3CX	Fabrication Skills Emphasis	This course focuses on manufacturing processes such as welding and/or sheet metal fabrication.
TMJ3CJ	Control Systems Emphasis	

TMJ3EI, TMJ3ED, TMJ3EX, TMJ3EY, TMJ3EW, TMJ3E8, TMJ3EH, TMJ3EJ**Manufacturing Technology, Grade 11, Workplace Preparation**

This course helps clarify for young people the broad range of career opportunities available within the manufacturing sector. Students will acquire design and fabrication skills using a variety of materials, tools, equipment, and processes, and will construct products that adhere to design specifications and meet quality control standards. In addition to developing employability and technical skills, students will develop an understanding of the impact of the manufacturing sector on consumers, society, and the environment.

Code	Title	Additional Information
TMJ3EI	Manufacturing Technology	
TMJ3ED	Manufacturing Technology	This is a 2.0 credit course.
TMJ3EX	Fabrication Skills Emphasis	This course focuses on manufacturing processes such as welding and/or sheet metal fabrication.
TMJ3EY	Manufacturing Processes Emphasis	This course focuses on manufacturing processes using hand and machine tooling.
TMJ3EW	Product Manufacturing Emphasis	This course focuses on manufacturing processes such as woodworking.
TMJ3E8	Product Manufacturing Emphasis	This course is for female students only.
TMJ3EH	Manufacturing Technology – Part 1	This is a 0.5 credit course for female students only.
TMJ3EJ	Control Systems Emphasis	

TDJ3MI, TDJ3MX, TDJ3MW**Technological Design, Grade 11, University/College Preparation**

This course provides students with opportunities to apply the principles of technological design to challenges in communications, manufacturing, electronics, transportation, architecture, industrial and consumer products, health and safety equipment, and environmental services. Students will identify user needs, estimate labour and material costs, analyse material characteristics, and illustrate design solutions, using traditional and computer-based methods. They will also acquire the basic design skills required for postsecondary studies in engineering, manufacturing, architecture, and construction.

Code	Title	Additional Information
TDJ3MI	Technological Design	
TDJ3MX	Architectural Design Emphasis	
TDJ3MW	Engineering Emphasis	

TDJ3EI, TDJ3ED, TDJ3EX**Technological Design, Grade 11, Workplace Preparation**

This course provides students with opportunities to apply the principles of basic design to technological challenges in industry, engineering, architecture, manufacturing, and graphics. Students will develop problem-solving and design skills through the use of technical drawings and illustrations, model building, testing, and marketing. They will also become aware of consumer, business, and environmental issues in the creation and marketing of products or services, and the educational requirements of design-related careers.

Code	Title	Additional Information
TDJ3EI	Technological Design	
TDJ3ED	Technological Design	This is a 2.0 credit course.
TDJ3EX	Architectural Design Emphasis	

Technological Education – Part A

TTJ3CI, TTJ3CX, TTJ3CD, TTJ3CW, TTJ3CY Transportation Technology, Grade 11, College Preparation

This course examines the infrastructure required for the operation of land, air, and/or marine vehicles. Students will design, construct, and modify vehicles, and apply safe work practices and procedures using current technology. They will also develop effective communication and teamwork skills when developing solutions to managing vehicle support systems; investigate the educational requirements for career opportunities in the transportation sector; and analyse the impact of transportation technology on society and the environment.

Code	Title	Additional Information
TTJ3CI	Transportation Technology	
TTJ3CX	Vehicle Service Emphasis	
TTJ3CD	Vehicle Service Emphasis	This is a 2.0 credit course.
TTJ3CW	Vehicle Systems Emphasis	Students will have an opportunity to demonstrate their knowledge and skills of small engines.
TTJ3CY	Vehicle Repairs Emphasis	This course focuses on body work and refinishing.

TTJ3EI, TTJ3EX, TTJ3ED, TTJ3EY, TTJ3EW, TTJ3E8, TTJ3EH Transportation Technology, Grade 11, Workplace Preparation

This course examines the various types of land, air, and/or marine vehicles and vehicle systems found within the transportation sector. Students will acquire identification, troubleshooting, repairing, and testing skills that meet industry standards and government regulations. In addition to developing employability and technical skills, they will explore the broad range of career opportunities within this sector, and will examine the impact of the transportation sector on people, society, and the environment.

Code	Title	Additional Information
TTJ3EI	Transportation Technology	
TTJ3EX	Vehicle Service Emphasis	
TTJ3ED	Vehicle Service Emphasis	This is a 2.0 credit course.
TTJ3EY	Vehicle Repairs Emphasis	This course focuses on body work and refinishing.
TTJ3EW	Vehicle Systems Emphasis	Students will have an opportunity to demonstrate their knowledge and skills of small engines.
TTJ3E8	Vehicle Systems Emphasis	This course is for female students only.
TTJ3EH	Transportation Technology – Part 1	This is a 0.5 credit course for female students only.

Grade 12

TGJ4MI, TGJ4MX, TGJ4MD, TGJ4MY Communications Technology, Grade 12, University/College Preparation

This course examines communications systems and design and production processes in one or more of the areas of electronic, live, and graphic communications. Students will independently create, manage, and distribute complex graphic, electronic, or audiovisual projects. Students will also study industry standards and regulations and health and safety issues, and will explore careers, the importance of lifelong learning, and the impact of communications technology on society and the environment. **Prerequisite:** *Grade 11 Communications Technology, University/College*

Code	Title	Additional Information
TGJ4MI	Communications Technology	
TGJ4MX	Telecommunications Emphasis	
TGJ4MD	Communications Technology	This is a 2.0 credit course.
TGJ4MY	Electronics Emphasis	

TGJ4EI, TGJ4ED**Communications Technology, Grade 12, Workplace Preparation**

This course examines communications systems and design and production processes in one or more of the areas of electronic, live, and graphic communications. Students will develop the specialized knowledge and skills needed to diagnose and solve problems in a range of advanced communications systems, and to maintain and repair such systems. Students will also study industry standards and regulations and health and safety issues, and will explore careers, the importance of lifelong learning, business management and entrepreneurial opportunities, and the impact of communications technology on society and the environment. *Prerequisite: Grade 11 Communications Technology, Workplace*

Code	Title	Additional Information
TGJ4EI	Communications Technology	
TGJ4ED	Communications Technology	This is a 2.0 credit course.

TCJ4CI, TCJ4CX, TCJ4CD, TCJ4CW, TCJ4CY**Construction Technology, Grade 12, College Preparation**

This course focuses on residential, commercial, industrial, and/or recreational construction. Students will learn about the tools, materials, equipment, and methods used in the light and heavy construction industries; structural analysis and design; presentation and working drawings; and mechanical systems. They will also estimate materials and labour costs, study industry standards and building codes, consider health and safety issues, and explore energy conservation, careers, and the impact of construction technology on society and the environment. *Prerequisite: Grade 11 Construction Technology, College*

Code	Title	Additional Information
TCJ4CI	Construction Technology	
TCJ4CX	Residential and Light Construction Emphasis	
TCJ4CD	Construction Technology	This is a 2.0 credit course.
TCJ4CW	Electrical Construction Principles Emphasis	
TCJ4CY	Environmental Construction Emphasis	This course focuses on different methods of heating, ventilating, and air conditioning.

TCJ4EI, TCJ4ED, TCJ4EX, TCJ4EW, TCJ4EY, TCJ4EJ**Construction Technology, Grade 12, Workplace Preparation**

This course focuses on residential and heavy construction, emphasizing advanced practical workplace applications and the development of generic employment skills and independent learning skills. Students will examine the materials, processes, labour, tools, and equipment used in the construction industry; technical drawings; mechanical systems; and landscaping. They will also study industry standards and building codes, consider health and safety issues, and explore careers, lifelong learning opportunities, and the impact of construction technology on society and the environment. *Prerequisite: Grade 11 Construction Technology, Workplace*

Code	Title	Additional Information
TCJ4EI	Construction Technology	
TCJ4ED	Construction Technology	This is a 2.0 credit course.
TCJ4EX	Residential and Light Construction Emphasis	
TCJ4EW	Electrical Constructions Principles Emphasis	
TCJ4EY	Environmental Construction Emphasis	This course focuses on different methods of heating, ventilating, and air conditioning.
TCJ4EJ	Construction Technology	This course focuses on home construction.

Technological Education – Part A

THL45I

Horticulture and Landscape Technologies, Grade 12, Workplace, Locally Developed

This course focuses on residential, commercial and agricultural horticulture applications. Students will learn about and gain experience with a variety of horticultural practices. Students will identify recent trends in horticulture and investigate current issues. They will study standards, investigate environmental and safety issues and explore post secondary opportunities related to a variety of horticultural careers. *Prerequisite: Grade 11 Horticulture and Landscape Technologies, Workplace*

TPE4EI, TPE4ET

Hairstyling and Aesthetics, Grade 12, Workplace Preparation

This course builds on the Grade 11 course to provide a solid foundation for students wishing to pursue a career in cosmetology. Students will continue to develop practical skills and knowledge pertaining to the beauty industry. They will also gain an awareness of the entrepreneurial skills required to own and operate a salon. The course may focus on either hairstyling or aesthetics, or may include a combination of both areas. *Prerequisite: Grade 11 Hairstyling and Aesthetics, Workplace*

Code	Title	Additional Information
TPE4EI	Hairstyling and Aesthetics	
TPE4ET	Personal Service Emphasis	This is a 3.0 credit course.

TPT4CI

Medical Technologies, Grade 12, College Preparation

This course focuses on human physiology, pathology, and immunology. Students will learn about accepted medical care practices, current technological advances in health care, and how to perform various procedures and use tools and equipment in the field of health care. Students will also design solutions to common medical and health care problems, investigate career opportunities, and examine laws and safety standards in the health care industry and the impact of this industry on the environment. *Prerequisite: Grade 11 Health Care, College*

TFH4EI, TFH4EX, TFH4EY

Hospitality and Tourism, Grade 12, Workplace Preparation

This course focuses on advanced food preparation and presentation skills; event and activity planning; the equipment and facilities used in the hospitality and tourism industry; and tourist attractions. Students will study the nutritional value of foods, plan menus and recipes, develop management techniques, design and implement an event, and learn effective communication skills. They will also explore careers, the impact of the hospitality and tourism industry on society and the environment, and health and safety standards in the workplace. *Prerequisite: Grade 11 Hospitality and Tourism, Workplace*

Code	Title	Additional Information
TFH4EI	Hospitality and Tourism	
TFH4EX	Baked Foods Preparation Emphasis	
TFH4EY	Culinary Foods Preparation Emphasis	

TMJ4CI, TMJ4CY, TMJ4CD, TMJ4CW, TMJ4CX, TMJ4CJ

Manufacturing Engineering Technology, Grade 12, College Preparation

This course focuses on advanced manufacturing and engineering and provides students with an opportunity to develop specialized knowledge and skills used in sophisticated production processes. Students will solve problems, make the decisions necessary to develop a product for manufacture, and examine production methods, quality control systems, and environmental and societal impacts.

Prerequisite: *Grade 11 Manufacturing Engineering Technology, College*

Code	Title	Additional Information
TMJ4CI	Manufacturing Engineering Technology	
TMJ4CY	Manufacturing Processes Emphasis	This course focuses on manufacturing processes using hand and machine tooling.
TMJ4CD	Manufacturing Engineering Technology	This is a 2.0 credit course.
TMJ4CW	Product Manufacturing Emphasis	This course focuses on manufacturing processes such as woodworking.
TMJ4CX	Fabrication Skills Emphasis	This course focuses on manufacturing processes such as welding and/or sheet metal fabrication.
TMJ4CJ	Control Systems Emphasis	

TMJ4EI, TMJ4ED, TMJ4EX, TMJ4EY, TMJ4EW, TMJ4EJ

Manufacturing Technology, Grade 12, Workplace Preparation

This course focuses on drafting and design, machining, welding, computer numerical control (CNC), computer-assisted machining (CAM), motor control, hydraulic control, pneumatic control, and computer control. Students will use sophisticated design and manufacturing systems to design and fabricate tooling, to program CNC equipment, and to design and build solutions to technological challenges in manufacturing.

Prerequisite: *Grade 11 Manufacturing Technology, Workplace*

Code	Title	Additional Information
TMJ4EI	Manufacturing Technology	
TMJ4ED	Manufacturing Technology	This is a 2.0 credit course.
TMJ4EX	Fabrication Skills Emphasis	This course focuses on manufacturing processes such as welding and/or sheet metal fabrication.
TMJ4EY	Manufacturing Processes Emphasis	This course focuses on manufacturing processes using hand and machine tooling.
TMJ4EW	Product Manufacturing Emphasis	This course focuses on manufacturing processes such as woodworking.
TMJ4EJ	Control Systems Emphasis	

TDJ4MI, TDJ4MX, TDJ4MW, TDJ4MD
Technological Design, Grade 12, University/College Preparation

This course provides students with opportunities to solve problems in design through the use of technical drawings, model building, testing, and marketing. Students will research, design, and test solutions for residential or commercial architecture, industrial engineering, and manufacturing. They will also examine the educational requirements of a technical-design-related career in engineering, architecture, or industrial design.

Prerequisite: *Grade 11 Technological Design, University/College*

Code	Title	Additional Information
TDJ4MI	Technological Design	
TDJ4MX	Architectural Design Emphasis	
TDJ4MW	Engineering Emphasis	
TDJ4MD	Technological Design	This is a 2.0 credit course.

Technological Education – Part A

TDJ4EI, TDJ4ED

Technological Design, Grade 12, Workplace Preparation

This course helps students develop a systematic process to design products or services based on an understanding and analysis of consumer needs, material characteristics, fabrication methods, and design principles. Students will develop design briefs, conduct marketing surveys, create freehand and computer-generated illustrations, make models, generate technical reports, design packaging, and become aware of design trends. They will also examine careers and small business opportunities in design, architecture, manufacturing, or marketing. *Prerequisite: Grade 11 Technological Design, Workplace*

Code	Title	Additional Information
TDJ4EI	Technological Design	
TDJ4ED	Technological Design	This is a 2.0 credit course.

TTJ4CI, TTJ4CX, TTJ4CD, TTJ4CY

Transportation Technology, Grade 12, College Preparation

This course examines the alternative modes of mass transit to enable students to develop the specialized knowledge and skills required to work with sophisticated land, air, and/or marine vehicles and transportation systems. Students will solve problems related to vehicles and transportation systems; examine transportation-related issues such as energy conversion, power transfer, control systems, and environmental and societal impact; and investigate the educational requirements of career opportunities in the transportation sector. *Prerequisite: Grade 11 Transportation Technology College*

Code	Title	Additional Information
TTJ4CI	Transportation Technology	
TTJ4CX	Vehicle Service Emphasis	
TTJ4CD	Vehicle Service Emphasis	This is a 2.0 credit course.
TTJ4CY	Vehicle Repairs Emphasis	This course focuses on body work and refinishing.

TTJ4EI, TTJ4EX, TTJ4ED, TTJ4EY, TTJ4EW, TTJ4E8

Transportation Technology, Grade 12, Workplace Preparation

This course examines the commonalities of land, air, and/or marine vehicles and transportation systems. Students will develop safe workplace habits and business management skills and will use diagnostic, hand, and power tools effectively to service and repair vehicles to meet industry standards and safety inspections. They will also research the entry requirements for apprenticeship training programs and develop the employability and technical skills required for entry into the workplace. *Prerequisite: Grade 11 Transportation Technology, Workplace*

Code	Title	Additional Information
TTJ4EI	Transportation Technology	
TTJ4EX	Vehicle Service Emphasis	
TTJ4ED	Vehicle Service Emphasis	This is a 2.0 credit course.
TTJ4EY	Vehicle Repairs Emphasis	This course focuses on body work and refinishing.
TTJ4EW	Vehicle Systems Emphasis	Students will have an opportunity to demonstrate their knowledge and skills of small engines.
TTJ4E8	Transportation Technology	This course is for female students only.

Course Descriptions for Technological Education - Part B: Computer Studies

Grade 10

TIK2OI

Computer and Information Science, Grade 10, Open

This course introduces students to computer science concepts. Students will learn about the stages in software design; the fundamental programming constructs of sequence, selection, and repetition; the functions of internal and external computer components; the relationship among networks, operating systems, and application software and their uses; and how programming languages evolve. Students will also develop an awareness of computer-related careers.

TEE2OI

Computer Engineering Technology, Grade 10, Open

This course examines computer hardware and the control of external components from an engineering perspective. Student will learn how to solve problems, and will study the functions of key computer components and peripherals, logic gates, fundamental programming concepts, internal numbering and character representation systems, and operating systems and networks. Students will also develop an awareness of potential careers in the field of computer engineering.

Grade 11

ICS3MI

Computer and Information Science, Grade 11, University/College Preparation

This course helps students examine computer science concepts. Students will outline stages in software development, define standard control and data structures, identify on- and off-line resources, explain the functions of basic computer components, and develop programming and problem-solving skills by using operating systems and implementing defined practices. As well as identifying careers in computer science, students will develop an understanding of the ethical use of computers and the impact of emergent technologies on society.

ICE3MI, ICE3MX

Computer Engineering, Grade 11, University/College Preparation

This course helps students understand how computer hardware and software are used to solve computer-related problems from an engineering perspective. Students will explore ways of connecting computers, interfaces, and peripherals using their knowledge of logic gates, computer components, peripherals, programming, networks, and operating systems. Students will also construct systems that use computer programs to interact with hardware, install and configure key computer hardware and software components, develop an understanding of the ethical use of computers, and explore careers in computer engineering.

Code	Title	Additional Information
ICE3MI	Computer Engineering	
ICE3MX	Computer Engineering	This course is taught using CISCO equipment.

ICE3EI, ICE3EX

Computer Engineering, Grade 11, Workplace Preparation

This course helps students develop a practical understanding of hardware and software operations, computer networks, and operating systems. Students will learn to use utility and application software and to install, maintain, and troubleshoot computer systems and networks following proper maintenance and repair procedures. In addition to developing an understanding of the ethical use of computers, students will identify engineering career opportunities and the skill sets required for the workplace, including good customer service practices.

Code	Title	Additional Information
ICE3EI	Computer Engineering	
ICE3EX	Computer Engineering	This course is taught using CISCO equipment.

Grade 12

ICS4MI,

Computer and Information Science, Grade 12, University/College Preparation

This course helps students use programming and software engineering principles to design and develop algorithms and programs. Students will use software development and diagnostic tools, implement data structures and algorithms, and use file management techniques in project settings. They will also develop an understanding of the ethics of computer use and the impact of information technology on the community, and will explore postsecondary education and career paths in computer science. *Prerequisite: Grade 11 Computer and Information Science, University/College*

ICE4MI, ICE4MX

Computer Engineering, Grade 12, University/College Preparation

This course helps students understand and apply computer engineering concepts. Students will analyse and design computer components such as logic circuits and interfaces; develop and construct systems and write the associated computer programs to drive real-world devices such as traffic lights, models, and robots; and explore networking hardware, protocols, and configurations. As well as developing project management skills, students will examine the ethics of computer use and explore related educational requirements and careers. *Prerequisite: Grade 11 Computer Engineering, University/College, or Grade 11 Computer and Information Science, University/College*

Code	Title	Additional Information
ICE4MI	Computer Engineering	
ICE4MX	Computer Engineering	This course is taught using CISCO equipment.

ICE4EI, ICE4EX

Computer Engineering, Grade 12, Workplace Preparation

This course helps students understand network topologies (how computers are connected in networks) and associated hardware, and gain practical knowledge of hardware and software operations and trends. Students will install and maintain computer systems and networks, and diagnose and solve problems in them; develop maintenance and repair protocols; and customize utility and application software to meet user needs. As well as developing skills to communicate with customers, students will examine computer ethics and identify skill requirements for computer support positions. *Prerequisite: Grade 11 Computer Engineering, Workplace*

Code	Title	Additional Information
ICE4EI	Computer Engineering	
ICE4EX	Computer Engineering	This course is taught using CISCO equipment.

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